

ACADEMIC YEAR (2022-2023)



J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY
T.N.Palayam(po),Gobi(tk)-638506, Erode(dt).

Metric
No 1.3.2

S.No	Name of the course	course code	programme offering	Experiential learning			Number of students
				project work	field work	inplant training	
(2022-2023) Regulation-2017							
1	Project Work	IT8811	INFORMATION TECHNOLOGY	✓			10
2	Software Engineering	CS8494	INFORMATION TECHNOLOGY	✓			8
3	Computer Networks	CS8591	INFORMATION TECHNOLOGY	✓			6
4	Object Oriented Analysis and Design	CS8592	INFORMATION TECHNOLOGY	✓			6
5	Artificial Intelligence	CS8691	INFORMATION TECHNOLOGY	✓			8
6	Mobile Computing	CS8601	INFORMATION TECHNOLOGY	✓			8
7	Cryptography and Network Security	CS8792	INFORMATION TECHNOLOGY	✓			10
8	Cloud Computing	CS8791	INFORMATION TECHNOLOGY	✓			4

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OF TECHNOLOGY
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GOBI (TK), ERODE (DI).



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INFORMATION TECHNOLOGY

S.No	Name of the Course that include experiential learning through Project Work/Internship/Field Visit
1	Software Engineering
2	Computer Networks
3	Object Oriented Analysis and Design
4	Artificial Intelligence
5	Mobile Computing
6	Cryptography and Network Security
7	Cloud Computing


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GOBI (TK), ERODE (Dt).

PROJECT

OBJECTIVES:

- To understand the fundamentals of object modeling
- To understand and differentiate Unified Process from other approaches.
- To design with static UML diagrams.
- To design with the UML dynamic and implementation diagrams.
- To improve the software design with design patterns.
- To test the software against its requirements specification

UNIT I UNIFIED PROCESS AND USE CASE DIAGRAMS 9

Introduction to OOAD with OO Basics - Unified Process - UML diagrams - Use Case - Case study - the Next Gen POS system, Inception - Use case Modelling - Relating Use cases - include, extend and generalization - When to use Use-cases

UNIT II STATIC UML DIAGRAMS 9

Class Diagram - Elaboration - Domain Model - Finding conceptual classes and description classes - Associations - Attributes - Domain model refinement - Finding conceptual class Hierarchies - Aggregation and Composition - Relationship between sequence diagrams and use cases - When to use Class Diagrams

UNIT III DYNAMIC AND IMPLEMENTATION UML DIAGRAMS 9

Dynamic Diagrams - UML interaction diagrams - System sequence diagram - Collaboration diagram - When to use Communication Diagrams - State machine diagram and Modelling - When to use State Diagrams - Activity diagram - When to use activity diagrams

Implementation Diagrams - UML package diagram - When to use package diagrams - Component and Deployment Diagrams - When to use Component and Deployment diagrams

UNIT IV DESIGN PATTERNS 9

GRASP: Designing objects with responsibilities - Creator - Information expert - Low Coupling - High Cohesion - Controller **Design Patterns** - **creational** - factory method - **structural** - Bridge - Adapter - **behavioural** - Strategy - observer - Applying GoF design patterns - Mapping design to code

UNIT V TESTING 9

Object Oriented Methodologies - Software Quality Assurance - Impact of object orientation

OUTCOMES:

At the end of the course, the students will be able to:

- Express software design with UML diagrams
- Design software applications using OO concepts.
- Identify various scenarios based on software requirements
- Transform UML based software design into pattern based design using design patterns
- Understand the various testing methodologies for OO software

TEXTBOOKS:

1. Craig Larman,—Applying UML and Patterns: An Introduction to Object-Oriented Analysis and Design and Iterative Development, Third Edition, Pearson Education, 2005.
2. Ali Bahrami-Object Oriented Systems Development -McGrawHill International Edition-1999

REFERENCES:

1. Erich Gamma, and Richard Helm, Ralph Johnson, John Vlissides,—Design patterns: Elements of Reusable Object-Oriented Software, Addison-Wesley, 1995.
2. Martin Fowler,—UML Distilled: A Brief Guide to the Standard Object Modeling Language, Third Edition, Addison Wesley, 2003.



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GOBI (TK), ERODE (Dt).



**PREVENTING CYBERBULLYING IN SOCIAL
NETWORKING SITES USING DEEP LEARNING MODEL**

A PROJECT REPORT

Submitted by

H.GOWTHAM

(731219205002)

S.NINGARAJU

(731219205008)

In partial fulfillment for the award of the degree

of

BACHELOR OF TECHNOLOGY

in

INFORMATION TECHNOLOGY

J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY

T.N.PALAYAM,GOBI-638506

ANNA UNIVERSITY:: CHENNAI 600 025

MAY 2023

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JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).**

ANNA UNIVERSITY:: CHENNAI 600 025

BONAFIDECERTIFICATE

Certified that this project report on "**PREVENTING CYBERBULLYING IN SOCIAL NETWORKING SITES USING DEEP LEARNING MODEL**" is the bonafide work of "**H.GOWTHAM(731219205002) , S.NINGARAJU(731219205008)**" who carried out the project work under my supervision



SIGNATURE

Dr.N.SATHYABALAJI,M.E,Ph.D.,M.I.S.T.E

ASSOCIATE PROFESSOR

HEAD OF THE DEPARTMENT

Dept.of Information Technology
J.K.K.Munirajah College of Technology
T.N.Palayam



SIGNATURE

Mr.E.VIJAY ANANTH.,M.E.,

ASSISTANT PROFESSOR

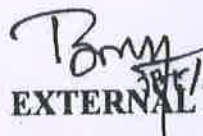
SUPERVISOR

Dept.of Information Technology
J.K.K.Munirajah College of Technology
T.N.palayam

Submitted for the Viva-Voce examination held on 18/05/2023 & AN



INTERNAL EXAMINER



EXTERNAL EXAMINER

||



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T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).

ABSTRACT

Cyberbullying is bullying that takes place over digital devices like cell phones, computers, and tablets. Cyberbullying can occur through SMS, Text, and apps, or online in social media, forums, or gaming where people can view, participate in, or share content. Cyberbullying includes sending, posting, or sharing negative, harmful, false, or mean content about someone else. It can include sharing personal or private information about someone else causing embarrassment or humiliation. The content an individual share online – both their personal content as well as any negative, mean, or hurtful content – creates a kind of permanent public record of their views, activities, and behaviour. To avoid or detecting cyberbullying attacks, many existing approaches in the literature incorporate Machine Learning and Natural Language Processing text classification models without considering the sentence semantics. The main goal of this project is to overcome that issue.

This project proposed a model LSTM - CNN architecture for detecting cyberbullying attacks and it used word2vec to train the custom of word embeddings. This model is used to classify tweets or comments as bullying or non-bullying based on the toxicity score. LSTM networks are well-suited to classifying, processing and making predictions based on time series data, since there can be lags of unknown duration between important events in a time series. A convolutional neural network (CNN) is a type of artificial neural network and it has a convolutional layer to extract information by a larger piece of text and by using this model LSTM- CNN achieve a higher accuracy in analysis, classification and detecting the cyberbullying attacks on posts and comments.

CHAPTER 1

INTRODUCTION

1.1 OVERVIEW

Cyberbullying is bullying that takes place over digital devices like cell phones, computers, and tablets. Cyberbullying can occur through SMS, Text, and apps, or online in social media, forums, or gaming where people can view, participate in, or share content. Cyberbullying includes sending, posting, or sharing negative, harmful, false, or mean content about someone else. It can include sharing personal or private information about someone else causing embarrassment or humiliation. Some cyberbullying crosses the line into unlawful or criminal behaviour.

The most common places where cyberbullying occurs are:

- Social Media, such as Facebook, Instagram, Snapchat, and Tik Tok
- Text messaging and messaging apps on mobile or tablet devices
- Instant messaging, direct messaging, and online chatting over the internet
- Online forums, chat rooms, and message boards, such as Reddit
- Email
- Online gaming communities

DIFFERENT KINDS OF CYBERBULLYING

There are many ways that someone can fall victim to or experience cyberbullying when using technology and the internet. Some common methods of cyberbullying are:

Harassment – When someone is being harassed online, they are being subjected to a string of abusive messages or efforts to contact them by one

CHAPTER 10

CONCLUSION

Cyberbullying is the harassment that takes place in digital devices such as mobile phones, computers and tablets. The means used to harass victims are very diverse: text messages, applications, social media, forums or interactive games. One of the things that complicates these types of situations that occur through the Internet, is the anonymity this environment allows. Since this facilitates cyberbullying can cover almost all areas of the victim's life, that is: educational environment, work, social or loving life. When the identity of the harasser is not known, even if the facts are reported, in many cases it is not enough to open an investigation, identify it and pay for the crime committed..

This project proposed a deep learning model Bidirectional Long Short Term Memory (BiLSTM). Thus, this project has designed a method of automatically detecting the Cyberbullying attack cases. Identifies the messages or comments or posts which the BiLSTM model predicts as offensive or negative then it blocks that person id, then the admin can create automated reports and send to the concern department. Experiments are conducted to test three machine learning and 2 deep learning models that are; (1) GBM, (2) LR, (3) NB, (4) LSTM-CNN and (5) BiLSTM. This project also employed two feature representation techniques Tf and TF-IDF. The results showed that all models performed well on tweet dataset but our proposed BiLSTM classifier outperforms by using both TF and TF-IDF among all. Proposed model achieves the highest results using TF-IDF with 96% Accuracy, 92% Recall and 95% F1-score.



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INTERNSHIP DETAILS 2022-23

SL.N O	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731219205002	GOWTHAM.H	VCITEX SOLUTIONS PVT LTD	CHENNAI	20.03.2023 to 25.03.2023
2	731219205008	NINGARAJU.S			


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Internship

1 message

MON 13 Mar 2023 at 2.00pm

From: HODCSE <hodcse@jkkmct.edu.in>

Date: MON 13 Mar 2023 at 2.00pm

Subject: Internship-reg

To: VCITEX SOLUTIONS PVT LTD <hr.vcitexinfotech@gmail.com>

Dear Sir,


I am requesting to be joining your **VCITEX SOLUTIONS PVT LTD**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **GOWTHAM.H, NINGARAJU.S**

Sincerely,

Final Year CSE Student,
J K K Munirajah College of Technology,
T.N.Palayam, Erode-638506, Tamilnadu.


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OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506,
GOBI (TK), ERODE (Dt).



Internship

1 message

THUR 16 Mar 2023 at 3.30pm

From: VCITEX SOLUTIONS PVT LTD <hr.vcitexinfotech@gmail.com>

Date: THUR 16 Mar 2023 at 3.30pm

Subject: Internship-reg

To: HODCSE <hodcse@jkkmct.edu.in>

Dear SIR,


I am writing to confirm my acceptance of your internship offer of 20.03.2023 to 25.03.2023 and to tell you how to be joining my VCITEX SOLUTIONS PVT LTD. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on March 18, 2023 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: GOWTHAM.H, NINGARAJU.S

Sincerely,

HR Manager,
VCITEX SOLUTIONS PVT LTD,
Chennai.


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OF TECHNOLOGY
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VCIDEX

Bring IT to Mass

This is to certify that **Mr/Ms. GOWTHAM.H** Final year B.E., Computer Science and Engineering of **JKK MUNIRAJAH COLLEGE OF TECHNOLOGY**, Erode, has attended **Internship** training in our organization from **20.03.2023 to 25.03.2023**. During this **Internship** training, he/she has learned the overview concepts of

PREVENTIG CYBERBULLING IN SOCIAL NETWORKING SITES

USING DEEP LEARNING MODEL

DATE: 25.03.2023



AUTHORIZED SIGNATURE

PRINCIPAL

JKK MUNIRAJAH COLLEGE OF TECHNOLOGY
T. M. PALAYAM (PO)-638 300.
ERODE (Dt).



VCIDEX

Bring IT to Mass

This is to certify that **Mr/Ms. NINGARAJU.S** Final year B.Tech. Information Technology of **JKK MUNIRAJAH COLLEGE OF TECHNOLOGY**, Erode, has attended **Internship training** in our organization from **20.03.2023 to 25.03.2023**. During this **Internship training**, he/she has learned the overview concepts of

PREVENTIG CYBERBULLING IN SOCIAL NETWORKING SITES

USING DEEP LEARNING MODEL

DATE:25.03.2023



AUTHORIZED SIGNATURE

PRINCIPAL
JKK MUNIRAJAH C
OF TECHNO
T.N. PALAYAN
GOBI (TK), ERODE (DT).

CS8494

SOFTWARE ENGINEERING

L T P C
3 0 0 3

OBJECTIVES:

- To understand the phases in a software project
- To understand fundamental concepts of requirements engineering and Analysis Modeling.
- To understand the various software design methodologies
- To learn various testing and maintenance measures

UNIT I SOFTWARE PROCESS AND AGILE DEVELOPMENT 9

Introduction to Software Engineering, Software Process, Perspective and Specialized Process Models—Introduction to Agility-Agile process-Extreme programming-XP Process.

UNIT II REQUIREMENTS ANALYSIS AND SPECIFICATION 9

Software Requirements: Functional and Non-Functional, User requirements, System requirements, Software Requirements Document Requirement Engineering Process: Feasibility Studies, Requirements elicitation and analysis, requirements validation, requirements management-Classical analysis: Structured system Analysis, Petri Nets-Data Dictionary.

UNIT III SOFTWARE DESIGN 9

Design process — Design Concepts-Design Model— Design Heuristic — Architectural Design -Architectural styles, Architectural Design, Architectural Mapping using Data Flow- User Interface Design: Interface analysis, Interface Design —Component level Design: Designing Class based components, traditional Components.

UNIT IV TESTING AND MAINTENANCE 9


Software testing fundamentals-Internal and external views of Testing-white box testing - basis path testing-control structure testing-black box testing- Regression Testing — Unit Testing — Integration Testing— Validation Testing— System Testing And Debugging—Software Implementation Techniques: Coding practices-Refactoring-Maintenance and Reengineering-BPR model-Reengineering process model-Reverse and Forward Engineering.

UNIT V PROJECT MANAGEMENT

Software Project Management: Estimation – LOC, FP Based Estimation, Make/Buy Decision COCOMO I & II Model – Project Scheduling – Scheduling, Earned Value Analysis Planning –Project Plan, Planning Process, RFP Risk Management – Identification, Projection - Risk Management-Risk Identification-RMMM Plan-CASE TOOLS

TOTAL: 45 PERIODS

OUTCOMES:


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On Completion of the course, the students should be able to:

- Identify the key activities in managing a software project.
- Compare different process models.
- Concepts of requirements engineering and Analysis Modeling.
- Apply systematic procedure for software design and deployment.
- Compare and contrast the various testing and maintenance.
- Manage project schedule, estimate project cost and effort required.

TEXTBOOKS:

1. Roger S. Pressman, —Software Engineering— A Practitioner's Approach, Seventh Edition, McGraw-Hill International Edition, 2010.
2. Ian Sommerville, —Software Engineering, 9th Edition, Pearson Education Asia, 2011.

REFERENCES:

1. Rajib Mall, —Fundamentals of Software Engineering, Third Edition, PHI Learning Private Limited, 2009.
2. Pankaj Jalote, —Software Engineering, A Precise Approach, Wiley India, 2010.
3. Kelkar S.A., —Software Engineering, Prentice Hall of India Pvt Ltd, 2007.
4. Stephen R. Schach, —Software Engineering, Tata McGraw-Hill Publishing Company Limited, 2007.
5. <http://nptel.ac.in/>.



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GOBI (TK), ERODE (Dt).



**BIG DATA AND MACHINE LEARNING
WITH HYPERSPECTRAL INFORMATION
IN AGRICULTURE**



A PROJECT REPORT

Submitted by

S.MAHANTESH

(731219205004)

M.VAIGAIRAJ

(731219205019)

*in partial fulfillment for the award of the degree
of*

BACHELOR OF TECHNOLOGY

in

INFORMATION TECHNOLOGY

J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY

T.N.PALAYAM, GOBI-638 506

ANNA UNIVERSITY:: CHENNAI 600 025

MAY 2023

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OF TECHNOLOGY**

**T.N. PALAYAM (Po)-638 506,
GOBI (TR), ERODE (Dt).**

ANNA UNIVERSITY::CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report on **“BIG DATA AND MACHINE LEARNING WITH HYPERSPECTRAL INFORMATION IN AGRICULTURE”** is the bonafide work of **“S.MAHANTESH (731219205004), and M.VAIGAIRAJ (731219205019)”** who carried out the project work Under my supervision.



SIGNATURE

Dr.N.SATHYABALAJI.M.E.Ph.D,M.I.S.T.E,
ASSOCIATE PROFESSOR
HEAD OF THE DEPARTMENT
Dept.of Information Technology
J.K.K.Munirajah College of Technology
T.N.Palayam



SIGNATURE

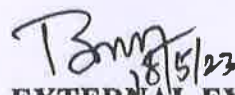
Dr.N.SATHYABALAJI.M.E.Ph.D,M.I.S.T.E,
ASSOCIATE PROFESSOR
SUPERVISOR
Dept.of Information Technology
J.K.K.Munirajah College of Technology
T.N.Palayam

Submitted for the Viva-Voce examination held on

18.05.2023 PAN



INTERNAL EXAMINER



EXTERNAL EXAMINER



PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

ABSTRACT

Hyperspectral and multispectral information processing systems and technologies have demonstrated its usefulness for the improvement of agricultural productivity and practices by providing useful information to farmers and crop managers on the factors affecting crop status and growth. These technologies are widely used in a range of agriculture applications such as crop management, crop yield forecasting, crop disease detection, and the monitoring of agriculture land usage, water, and soil conditions. Hyperspectral information sensing can acquire several hundred spectral bands that cover the electromagnetic spectrum of an observational scene in a single acquisition.

The resulting hyperspectral data cube contains a large volume of spatial and spectral information. The hyperspectral sequence of images or video further increases the data generation velocity and volume which lead to the Big data challenges particularly in agricultural remote sensing applications. This project is structured to first give a comprehensive review of representative studies to provide insights into significant research efforts in agriculture using Big data, machine learning and deep learning with the focus on frameworks or architectures, information processing and analytics with hyperspectral and multispectral data.

CHAPTER 1

INTRODUCTION

This makes it important for farmers and crop growers to utilize emerging technologies to improve productivity to feed the growing global population. The technology and data driven economy and its focus on developing intelligent instrumentation, sensing, robotics, artificial intelligence (AI), machine learning, Big data and data analytics is expected to play a transformative role in agriculture to raise the rate of food production. Big data is increasingly being developed and deployed for many industries, professions, and trade sectors. For the agriculture sector, Big data provides farmers with useful and actionable information on weather and seasonal patterns, rain and water cycles, fertilizer requirements, and other critical information for harvesting and decision making. This enables farmers, agricultural suppliers and other stakeholders to make smart decisions such as the cycles for crops planting to increase profitability and the planning of optimal harvesting times leading to improved farm yields. To address the issues of the deployment of Big data in agriculture and Big data which are produced from large-scale networked sensing systems.

1.1 IMAGE PROCESSING

Image processing is a method to convert an image into digital form and perform some operations on it, in order to get an enhanced image or to extract some useful information from it. It is a type of signal dispensation in which input is image, like video frame or photograph and output may be image or characteristics associated with that image. Usually Image Processing system includes treating images as two dimensional signals while applying already set signal processing methods to them. It is among rapidly growing technologies today, with its applications in various aspects of a business. Image Processing forms core research area within engineering and

CHAPTER 9

CONCLUSION AND FUTURE ENHANCEMENT

9.1 CONCLUSION

Fine-tuned with the new training set constructed by incorporating the newly labeled pixels. This step together with the previous step is iteratively conducted. Image Compression & restoration is an important aspect in multimedia communication. We have presented a hybrid technique using DWT for Compression & restoration of image files. An important aspect is data Compression & restoration and for that matter Image Compression & restoration, as images form a larger part of data being exchanged over the internet through social networking and messaging sites and apps all over the world. Among all the various kinds of data images and videos constitute the bulkiest data.

Thus, need for compressing the image and video files is an important aspect in data communication. In this research work we present a technique for image Compression & restoration, using Discrete Cosine Transform and Fuzzy Logic Techniques. The algorithm used in this paper is tested along with several images and the results are compared with other techniques. Our method shows an improved performance both in Compression & restoration ratio as well as image perceptibility.

9.2 FUTURE ENHANCEMENT

The need for efficient machine learning algorithms and classifiers, and also to overcome the shortage of high-quality and labeled training images The need for efficient and scalable computational architectures for rapid information processing The need for standardization and ease of use for remote sensing format sand sensor resolutions particularly for non-expert user.



J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.

Accredited by NAAC with "A" grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



INTERNSHIP DETAILS 2022-23

SL.N O	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731219205004	MAHANTESH.S	PANTECH SOLUTIONS	COIMBATORE	06.03.2023 to 11.03.2023
2	731219205019	VAIGAIRAJ.M			

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OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506,
GOBI (TK), ERODE (Dt).



Internship

1 message

MON 27 Feb 2023 at 2.00pm

From: HODCSE<hodcse@jkkmct.edu.in>

Date: MON 27 Feb 2023 at 2.00pm

Subject: Internship-reg

To: PANTECH SOLUTIONS<hr. hr.pantechsol@gmail.com>

Dear Sir,


I am requesting to be joining your **PANTECH SOLUTIONS**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **MAHANTESH.S, VAIGAIRAJ.M**

Sincerely,

Final Year CSE Student,
J K K Munirajah College of Technology,
T.N.Palayam, Erode-638506, Tamilnadu.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).



Internship

1 message

THUR 2 Mar 2023 at 3.30pm

From: PANTECH SOLUTIONS <hr.pantechsol@gmail.com>

Date: THUR 2 Mar 2023 at 3.30pm

Subject: Internship-reg

To: HODCSE <hodcse@jkkmct.edu.in>

Dear SIR,


I am writing to confirm my acceptance of your internship offer of 06.03.2023 to 11.03.2023 and to tell you how to be joining my **PANTECH SOLUTIONS**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on March 04, 2023 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: **MAHANTESH.S, VAIGAIRAJ.M**

Sincerely,

HR Manager,
PANTECH SOLUTIONS,
Coimbatore.


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JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).

PANTECH SOLUTIONS[®]

Technology Beyond the Dreams

This is to certify that **Mr/Ms.MAHATESH.S** Final year B.Tech.,
Information Technology of **JKK MUNIRAJAH COLLEGE OF
TECHNOLOGY, Erode**, has attended **Internship training** in our
organization from **06.03.2023 to 11.03.2023**. During this **Internship
training**, he/she has learned the overview concepts of
**BIGDATA AND MACHINE LEARNING WITH HYPERSPECTRAL
INFORMATION IN AGRICULTURE**

DATE:11.03.2023



Authorized signature

PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (PO)-638 506.
GOBI (TK), ERODE (Dt).

PANTECH SOLUTIONS[®]

Technology Beyond the Dreams

This is to certify that **Mr/Ms. VAIGAIRAJ.M** Final year B.Tech.,
Information Technology of **JKK MUNIRAJAH COLLEGE OF
TECHNOLOGY**, Erode, has attended **Internship training** in our
organization from **06.03.2023 to 11.03.2023**. During this **Internship
training**, he/she has learned the overview concepts of
**BIGDATA AND MACHINE LEARNING WITH HYPERSPECTRAL
INFORMATION IN AGRICULTURE**

DATE: 11.03.2023



Authorized signature

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OF TECHNOLOGY
T.N. PALAYAM (PO)-638 506,
GOBI (TK), ERODE (DI).

CS8591

COMPUTER NETWORKS

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OBJECTIVES:

- To understand the protocol layering and physical level communication.
- To analyze the performance of a network.
- To understand the various components required to build different networks.
- To learn the functions of network layer and the various routing protocols.
- To familiarize the functions and protocols of the Transport layer.

UNIT I INTRODUCTION AND PHYSICAL LAYER 9

Networks — Network Types — Protocol Layering — TCP/IP Protocol suite — OSI Model — Physical Layer: Performance — Transmission media — Switching — Circuit-switched Networks—Packet Switching.

UNIT II DATA-LINK LAYER & MEDIA ACCESS 9

Introduction—Link-Layer Addressing —DLC Services—Data-Link Layer Protocols —HDLC —PPP—Media Access Control—Wired LANs: Ethernet—Wireless LANs—Introduction—IEEE 802.11, Bluetooth—Connecting Devices.

UNIT III NETWORK LAYER 9

Network Layer Services—Packet switching—Performance—IPV4 Addresses—Forwarding of IP Packets - Network Layer Protocols: IP, ICMP v4 — Unicast Routing Algorithms — Protocols—Multicasting Basics—IPV6 Addressing—IPV6 Protocol.

UNIT IV TRANSPORT LAYER 9

Introduction—Transport Layer Protocols—Services—Port Numbers—User Datagram Protocol—Transmission Control Protocol—SCTP.

UNIT V APPLICATION LAYER 9

WWW and HTTP—FTP—Email—Telnet—SSH—DNS—SNMP.

TOTAL: 45 PERIODS

OUTCOMES:

On Completion of the course, the students should be able to:

- Understand the basic layers and its functions in computer networks.
- Evaluate the performance of a network.
- Understand the basics of how data flows from one node to another.
- Analyze and design routing algorithms.
- Design protocols for various functions in the network.
- Understand the working of various application layer protocols



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GOBI (TK), ERODE (DI).**

TEXTBOOK:

1. Behrouz A. Forouzan, Data Communications and Networking, Fifth Edition
TMH,2013.

REFERENCES

1. Larry L. Peterson, Bruce S. Davie, Computer Networks: A Systems Approach, Fifth Edition, Morgan Kaufmann Publishers Inc.,2012.
2. William Stallings, Data and Computer Communications, Tenth Edition, PearsonEducation,2013.
3. NaderF.Mir, ComputerandCommunicationNetworks,SecondEdition,Prentice Hall,2014.
4. Ying-Dar Lin, Ren-Hung Hwang and Fred Baker, Computer Networks: An OpenSourceApproach,McGrawHillPublisher,2011.
5. James F. Kurose, Keith W. Ross, Computer Networking, A Top-Down ApproachFeaturingthe Internet, SixthEdition,PearsonEducation,2013.



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JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506,
GOBI (TK), ERODE (Dt).



**INTRUSION DETECTION OF IMBALANCED
NETWORK TRAFFIC BASED ON MACHINE
LEARNING AND DEEP LEARNING**



A PROJECT REPORT

Submitted by

S.NAVEEN

(731219205007)

M.PRABHU

(731219205010)

in partial fulfillment for the award of the degree

of

BACHELOR OF TECHNOLOGY

in

INFORMATION TECHNOLOGY

J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY

T.N.PALAYAM, GOBI-638 506

ANNA UNIVERSITY::CHENNAI 600 025

MAY 2023

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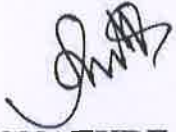
**JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY**

**T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).**

ANNA UNIVERSITY::CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report on **“INTRUSION DETECTION OF IMBALANCED NETWORK TRAFFIC BASED ON MACHINE LEARNING AND DEEP LEARNING”** is the bonafide work of **“S.NAVEEN(731219205007), M.PRABHU(731219205010)”** who carried out the project work under my supervision.

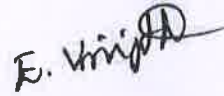


SIGNATURE

**Dr.N.SATHYABALAJI,M.E,Ph.D,M.I.S.T.E,
ASSOCIATE PROFESSOR**

HEAD OF THE DEPARTMENT

Dept.of Information Technology
J.K.K.Munirajah College of Technology
T.N.Palayam



SIGNATURE

**Mr.E.VIJAYANANTH.,M.E.,
ASSISTANT PROFESSOR**

SUPERVISOR

Dept.of Information Technology
J.K.K.Munirajah College of technology
T.N.Palayam

Submitted for the Viva-Voce examination held on

18-05-2023 & AN



INTERNAL EXAMINER



EXTERNAL EXAMINER



PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638506.
GOBI (Tk., ERODE (Dt).

ABSTRACT

In imbalanced network traffic, malicious cyber-attacks can often hide in large amounts of normal data. It exhibits a high degree of stealth and obfuscation in cyberspace, making it difficult for Network Intrusion Detection System(NIDS) to ensure the accuracy and timeliness of detection. This paper researches machine learning and deep learning for intrusion detection in imbalanced network traffic. It proposes a novel Difficult Set Sampling Technique(DSSTE) algorithm to tackle the class imbalance problem. First, use the Edited Nearest Neighbour algorithm(ENN) to divide the imbalanced training set into the difficultset and the easy set. Next, use the KMeans algorithm to compress the majority samples in the difficult set to reduce the majority. Zoom in and out the minority samples' continuous attributes in the difficult set synthesize new samples to increase the minority number. Finally, the easy set, the compressed set ofmajorities in the difficult, and the minority in the difficult set are combined withits augmentation samples to make up a new training set.

The algorithm reduces the imbalance of the original training set and provides targeted data augment for the minority class that needs to learn. It enables the classifier to learn the differences in the training stage better and improve classification performance.In this work, we develop a lightweight attack detection strategy utilizing a supervised machine learning-based FIDS to detect an adversary attempting to inject unnecessary data into the IoT network. Simulation results show that the proposed FIDS -based classifier, aided by a combination of two or three in complex features, can perform satisfactorily in terms of classification accuracy and detection time.

CHAPTER 1

INTRODUCTION

1.1 WIRELESS SENSOR NETWORK

A WSN (Wireless Sensor Network) consists of a large number of sensors, each of which are physically small devices, and are equipped with the capability of sensing the physical environment, data processing, and communicating wirelessly with other sensors. Generally, we assume that each sensor in a WSN has certain constraints with respect to its energy source, power, memory, and computational capabilities.

The communication paradigm of WSN has its root in wireless ad hoc networks, where network nodes self-organize in an ad hoc fashion, usually on a temporary basis. In a wireless ad hoc network, a group of wireless nodes spontaneously form a network without any fixed and centralized infrastructure. When two nodes wish to communicate, intermediate nodes are called upon to forward packets and to form a multi-hop wireless route.

Due to possibilities of node mobility, the topology is dynamic and routing protocols are proposed to search for end-to-end paths. The network nodes rely on peers for all or most of the services needed and for basic needs of communications. Due to the lack of centralized control and management, nodes rely on fully distributed and self-organizing protocols to coordinate their activities.

In both scenarios, distributed protocols need to accommodate dynamically to the following changes a node may join or leave the network arbitrarily, links may be broken, and nodes may be powered down as a result of node failures or intentional user actions. With respect to the characteristics previously discussed, wireless sensor network (or sensor networks for simplicity) are very similar to wireless ad hoc

CHAPTER 9

9.1 CONCLUSION

In this paper, we proposed a new algorithm called "MRF " is proposed for the specificities and constraints of sensor networks. Using MRF we aimed at creating a virtual topology to minimize frequent re-election and avoid overall restructuring of the entire network. Our first objective is to reduce energy consumption in all levels. As a result of this work, we plan to exploit the concept of redundancy to enhance results that are related to energy conservation.

Another interesting work that remains to do is to provide in-network processing by aggregating correlated data in the routing protocol and reduces the amount of data that are transported in the network.

Behavioral Intruder disturbance characterization of intruder is an effective alternative to pattern matching in detecting intruder, especially when dealing with polymorphic or obfuscated intruder.

Frothy Disturbance monitoring using Naive Bayesian model has been successfully applied in non-DTN settings, such as filtering email spams and detecting botnets.

We propose a general behavioral characterization of DTN-based proximity intruder. We present look ahead, along with dogmatic filtering and adaptive look ahead, to address two unique challenging in extending Bayesian filtering to DTNs: "insufficient evidence versus evidence collection risk" and "filtering false evidence sequentially and distributed."

CS8601

MOBILE COMPUTING

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OBJECTIVES:

- To understand the basic concepts of mobile computing.
- To learn the basics of mobile telecommunications system.
- To be familiar with the network layer protocols and Ad-Hoc networks.
- To know the basis of transport and application layer protocols.
- To gain knowledge about different mobile platforms and application development.

UNIT I INTRODUCTION 9

Introduction to Mobile Computing – Applications of Mobile Computing- Generations of Mobile Communication Technologies- Multiplexing – Spread spectrum -MAC Protocols –SDMA-TDMA-FDMA-CDMA

UNIT II MOBILE TELECOMMUNICATIONS SYSTEM 9

Introduction to Cellular Systems-GSM-Services & Architecture-Protocols-Connection Establishment-Frequency Allocation-Routing-Mobility Management-Security-GPRS-UMTS-Architecture-Handover-Security

UNIT III MOBILE NETWORK LAYER 9

Mobile IP-DHCP-AdHoc-Proactive protocol-DSDV, Reactive Routing Protocols-DSR, AODV, Hybrid routing-ZRP, Multicast Routing-ODMRP, Vehicular AdHoc networks (VANET)-MANET vs VANET-Security.

UNIT IV MOBILE TRANSPORT AND APPLICATION LAYER 9

Mobile TCP-WAP-Architecture-WDP-WTLS-WTP-WSP-WAE-WTA Architecture-WML

UNIT V MOBILE PLATFORMS AND APPLICATIONS 9

Mobile Device Operating Systems – Special Constraints & Requirements – Commercial Mobile Operating Systems – Software Development Kit: iOS, Android, BlackBerry, Windows Phone-MCommerce-Structure-Pros & Cons-Mobile Payment System-Security Issues

TOTAL 45 PERIODS

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JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (PO)-638 506.
GOBI (TK), ERODE (DI).

OUTCOMES:

At the end of the course, the students should be able to:


- Explain the basics of mobile telecommunication systems
- Illustrate the generations of telecommunication systems in wireless networks
- Determine the functionality of MAC, network layer and identify a routing protocol for a given Ad hoc network
- Explain the functionality of Transport and Application layers
- Develop a mobile application using android/blackberry/ios/Windows SDK

TEXTBOOKS:

1. Jochen Schiller, — Mobile Communications I, PHI, Second Edition, 2003.
2. Prasant Kumar Pattnaik, Rajib Mall, — Fundamentals of Mobile Computing I, PHI Learning Pvt. Ltd, New Delhi—2012

REFERENCES

1. Dharma Prakash Agarwal, Qing and An Zeng, "Introduction to Wireless and Mobile systems", Thomson Asia Pvt Ltd, 2005.
2. Uwe Hansmann, Lothar Merk, Martin S. Nicklons and Thomas Stober, — Principles of Mobile Computing I, Springer, 2003.
3. William. C. Y. Lee, — Mobile Cellular Telecommunications - Analog and Digital Systems I, Second Edition, Tata McGraw Hill Edition, 2006.
4. C. K. Toh, — Ad Hoc Mobile Wireless Networks I, First Edition, Pearson Education, 2002.
5. Android Developers: <http://developer.android.com/index.html>
6. Apple Developer: <https://developer.apple.com/>
7. Windows Phone DevCenter: <http://developer.windowsphone.com>
8. Black Berry Developer: <http://developer.blackberry.com>


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T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).



**SOIL ANALYSIS AND
CROP RECOMMENDATION USING
MACHINE LEARNING**



A PROJECT REPORT

Submitted by

T.PRIYADHARSINI

(731219205011)

M.VAIDEVI

(731219205018)

In partial fulfillment for the award of the degree

of

BACHELOR OF TECHNOLOGY

in

INFORMATION TECHNOLOGY

J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY

T.N.PALAYAM, GOBI – 638506

ANNA UNIVERSITY::CHENNAI 600 025

MAY 2023

**PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).**


ANNA UNIVERSITY::CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this project report on "SOIL ANALYSIS AND CROP RECOMMENDATION USING MACHINE LEARNING" is the bonafide work of " T.PRIYADHARSINI(731219205011) and M.VAIDEVI (731219205018)," who carried out the project work under my supervision. .


SIGNATURE

Dr.N.SATHYABALAJI.,M.E.Ph.D.,M.I.S.T.E
ASSOCIATE PROFESSOR
HEAD OF THE DEPARTMENT
Dept .of Information Technology
J.K.K. Munirajah College of Technology
T.N. Palayam



SIGNATURE

Mrs.P.SANGEETHA.,AP/IT.,M.E
ASSISTANT PROFESSOR
SUPERVISOR
Dept .of Information Technology
J.K.K. Munirajah College of Technology
T.N. Palayam

Submitted for the Viva- Voce examination held on 18.05.2023 of AN


INTERNAL EXAMINER


EXTERNAL EXAMINER


PRINCIPAL
J.K.K. MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).

ABSTRACT

In agriculture to grow healthier yield nutrients existing in the soil should be managed properly. Continuous growing of plants affects the soil fertility and its fertility level goes down. Farmers should go to laboratory for testing the fertility of the soil and it's time consuming. An optical transducer is developed to measure and to detect the presence of nitrogen . phosphorus and potassium of soil. Such transducer is needed to decide how much extra contents of these nutrients are to be added to the soil to increase soil fertility. This can improve the quality of soil and reduces the undesired use of fertilizers to be added to the soil. The N, P, and K value of the sample are determined by absorption light of each nutrient. The advance in the technology helps to progress even in the field of agriculture. In proposed framework, soil nutrients can be identified using .Crop yield prediction focuses mostly on agricultural research, which have an enormous impact on taking decisions for example import-export, price, along with crop management. Soil is the main component and plays a significant role in agriculture. Based on the nutrients and pH value of the soil, crop yielding is determined. Farmers are still using traditional approach to analysis the soil quality. The techniques like Data Mining, Artificial Intelligence, Machine Learning, Deep learning and Predictive Analytics are the emerging technologies in research to improve the agricultural field. Predictive analysis is a technique of machine learning that predicts the future outcomes and analysis is based on the historical or past data. Predicting the crop yield well ahead of its harvest would help farmers and market contractors strategize befitting actions to market and store their produce.

CHAPTER 1

INTRODUCTION

1.1. OVERVIEW

Soil is a natural body comprised of solids (minerals and organic matter), liquid, and gases that occurs on the land surface, occupies space, and is characterized by one or both of the following: horizons, or layers, that are distinguishable from the initial material as a result of additions, losses, transfers, and transformations of energy and matter or the ability to support rooted plants in a natural environment.

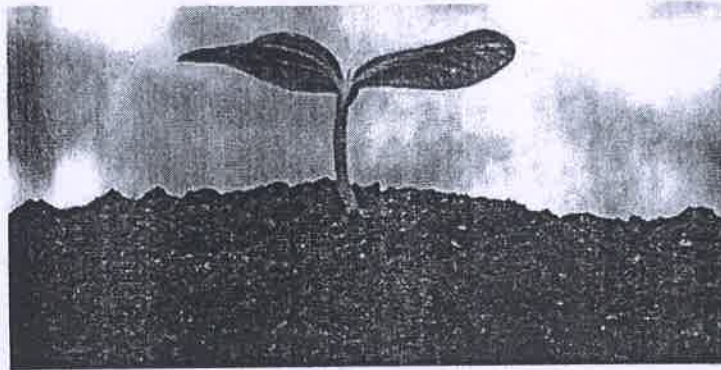


Fig 1.1 : Soil and crop

The upper limit of soil is the boundary between soil and air, shallow water, live plants, or plant materials that have not begun to decompose. Areas are not considered to have soil if the surface is permanently covered by water too deep (typically more than 2.5 meters) for the growth of rooted plants.

The lower boundary that separates soil from the non-soil underneath is most difficult to define. Soil consists of horizons near the Earth's surface that, in contrast to the underlying parent material, have been altered by the interactions of climate, relief, and living organisms over time. Commonly, soil grades at its lower boundary to hard rock or to earthy materials virtually devoid of animals, roots, or other marks of biological activity. For purposes of classification, the lower boundary of soil is arbitrarily set at 200 cm.

CHAPTER 9

CONCLUSION

In conclusion, "Crops2Go" is a web-based application that allows farmers or users to predict the best crops to grow based on climate, water, soil NPK and rainfall features using LSTM. The application has been developed using Python Flask, Tensor Flow, Keras, and MySQL, and it has undergone extensive testing to ensure its functionality, reliability, and accuracy. The system has several modules such as Data Collection, Pre-processing, Feature Extraction, Classification, Prediction, Performance Analysis, and Alerts/Notification module. The datasets used for training and testing the model have been obtained from Kaggle, and they have been adequately described .

9.1 Future Enhancement

There are several possible future enhancements that could be made to "Crops2Go: Web based Crops to grow Prediction with Climate, Water, Soil NPK and Rainfall Features using LSTM." Here are some ideas:

- Integration of satellite and weather data: By integrating satellite and weather data, it would be possible to create a more comprehensive and accurate prediction model
- Mobile app version: Developing a mobile app version of "Crops2Go" would make
- Language localization: As the application is currently only available in English, language localization could be a potential future enhancement to make the application accessible to farmers who speak different languages.
- Integration of market prices: Adding market prices of crops to the application would help farmers make informed decisions about which crops to grow based on the market demand and potential profit margins be made to "Crops2Go" to make it more useful and accessible to farmers.

CS8792

CRYPTOGRAPHY AND NETWORK SECURITY

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OBJECTIVES:

- To understand Cryptography Theories, Algorithms and Systems.
- To understand necessary Approaches and Techniques to build protection mechanisms in order to secure computer networks.

UNIT I INTRODUCTION 9

Security trends - Legal, Ethical and Professional Aspects of Security, Need for Security at Multiple levels, Security Policies - Model of network security - Security attacks, services and mechanisms - OSI security architecture - Classical encryption techniques: substitution techniques, transposition techniques, steganography - Foundations of modern cryptography: perfect security - information theory - product cryptosystem - cryptanalysis.

UNIT II SYMMETRIC KEY CRYPTOGRAPHY 9

MATHEMATICS OF SYMMETRIC KEY CRYPTOGRAPHY: Algebraic structures - Modular arithmetic - Euclid's algorithm - Congruence and matrices - Groups, Rings, Fields - Finite fields - SYMMETRIC KEY CIPHERS: DES - Block cipher Principle of DES - Strength of DES - Differential and linear cryptanalysis - Block cipher design principles - Block cipher mode of operation - Evaluation criteria for AES - Advanced Encryption Standard - RC4 - Key distribution.

UNIT III PUBLIC KEY CRYPTOGRAPHY 9


MATHEMATICS OF ASYMMETRIC KEY CRYPTOGRAPHY: Primes - Primality Testing - Factorization - Euler's totient function, Fermat's and Euler's Theorem - Chinese Remainder Theorem - Exponentiation and Algorithm - ASYMMETRIC KEY CIPHERS: RSA cryptosystem - Key distribution - Key management - Diffie Hellman key exchange - ElGamal cryptosystem - Elliptic curve arithmetic - Elliptic curve cryptography.

UNIT IV MESSAGE AUTHENTICATION AND INTEGRITY 9

Authentication requirement - Authentication function - MAC - Hash function - Security of hash function and MAC - SHA - Digital signature and authentication protocols - DSS - Entity Authentication: Biometrics, Passwords, Challenge Response protocols - Authentication applications - Kerberos, X.509

UNIT V SECURITY PRACTICE AND SYSTEM SECURITY 9

Electronic Mail security - PGP, S/MIME - IP security - Web Security -


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GOBI (TK), ERODE (Dt).

SYSTEM SECURITY: Intruders—Malicious software—viruses—Firewalls.

TOTAL 45 PERIODS

OUTCOMES:

At the end of the course, the student should be able to:


- Understand the fundamentals of network security, security architecture, threats and vulnerabilities
- Apply the different cryptographic operations of symmetric cryptographic algorithms
- Apply the different cryptographic operations of public key cryptography
- Apply the various authentication schemes to simulated different applications.
- Understand various security practices and system security standards

TEXTBOOK:

1. William Stallings, Cryptography and Network Security: Principles and Practice, PHI 3rd Edition, 2006.

REFERENCES:

1. C K Shyamala, N Harini and Dr. T R Padmanabhan: Cryptography and Network Security, Wiley India Pvt. Ltd
2. Behrouz A. Foruzan, Cryptography and Network Security, Tata McGraw Hill 2007.
3. Charlie Kaufman, Radia Perlman, and Mike Speciner, Network Security: PRIVATE Communication in a PUBLIC World, Prentice Hall, ISBN 0-13-046019-2


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JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt.)



**DESIGN AND DEVELOPMENT OF HUMAN
IDENTIFICATION AND OBSTACLES DETECTION
SYSTEM FOR BLIND DEEP LEARNING**



A PROJECT REPORT

Submitted by

R.NANDHINI (731219205005)

K.NITHYA (731219205009)

*in partial fulfillment for the award of the degree
of*

BACHELOR OF TECHNOLOGY

in

INFORMATION TECHNOLOGY

J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY

T.N.PALAYAM, GOBI-638 506

ANNA UNIVERSITY::CHENNAI 600 025

MAY 2023

**PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).**

ANNA UNIVERSITY:: CHENNAI 600 025

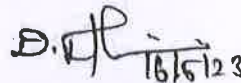
BONAFIDE CERTIFICATE

Certified that this project report on **“DESIGN AND DEVELOPMENT OF HUMAN IDENTIFICATION AND OBSTACLES DETECTION FOR BLIND USING DEEP LEARNING”** is the bonafide work of **“R.NANDHINI (731219205005) and K.NITHYA (731219205009)”** who carried out the project work Under my supervision.



SIGNATURE

Dr.N.SATHYABALAJI.,M.E.Ph.D,M.I.S.T.E,
ASSOCIATE PROFESSOR
HEAD OF THE DEPARTMENT
Dept.of Information Technology
J.K.K.Munirajah College of Technology
T.N.Palayam



SIGNATURE

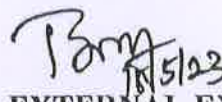
Mrs.D.NIVETHINI.,M.TECH
ASSISTANT PROFESSOR
SUPERVISOR
Dept.of Information Technology
J.K.K.Munirajah College of technology
T.N.palayam

Submitted for the Viva-Voce examination held on

18.05.2023 & AN.



INTERNAL EXAMINER



EXTERNAL EXAMINER



PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).

ABSTRACT

According to the World Health Organization (WHO), there are millions of visually impaired people in the world, either completely or partially, and they face numerous challenges in detecting obstacles and identifying persons around them. Not only has information technology evolved rapidly, but the spatial cognition theory for blind and visually impaired (BVI) people has also made great strides, which has opened up a new opportunity. As a result, this prototype develops the concept of supplying them with a simple and cost-effective solution via artificial vision. This project has proposed a novel framework by utilizing AI, which makes the framework more straightforward to use specifically for the individuals with visual impedances and to help the society. We developed an intelligent system for visually impaired people using a Machine learning (ML) algorithm, i.e., convolutional neural network (CNN) architecture, to recognize the human and scene objects or obstacles automatically in real-time. The proposed system is able to properly recognize humans in complex environments with multiple moving targets, thus providing to the user a complete set of information, namely presence, position and nature of the available targets. Furthermore, a voice message alerts the blind person about the obstacle or known or unknown person. The proposed work aims to create a user-friendly technology for communication of physically liable people which fulfils the basic amenities of the especially abled persons aiming easy-to-use interface, convenience, portability and cost effectiveness. As a result, the proposed approach enables blind users to manage unaware indoor and outdoor locations.

CHAPTER 1

INTRODUCTION

1.1 OVERVIEW

“Visual impairment” is a broad term that is used to refer to any degree of vision loss that affects a person’s ability to perform the usual activities of daily life.

Vision Impairment Types

The way in which vision impairments are classified differs across countries. The World Health Organization (the WHO) classifies visual impairment based on two factors: the visual acuity, or the clarity of vision, and the visual fields, which is the area from which you are able to perceive visual information, while your eyes are in a stationary position and you are looking straight at an object.

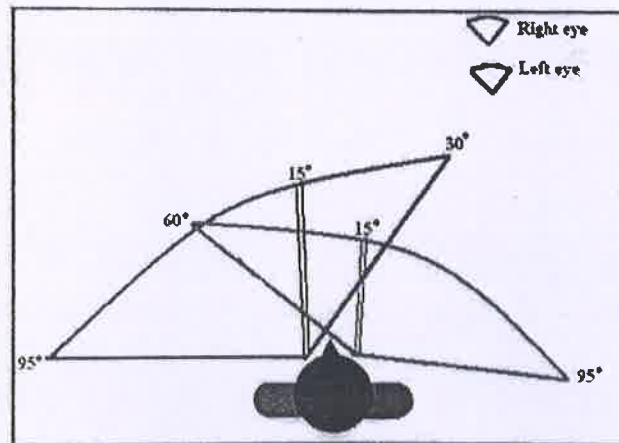


Fig:1.1 visual acuity

The Snellen Chart is used to test visual acuity. Your visual acuity is calculated using two numbers. The first number is the distance between the person reading the chart and the chart. The second number is the distance that a person with normal vision would have to stand from an object to see what you did at 20 feet. For example, a visual acuity of 20/80 means that you can read the chart from 20 feet away as well as a person who could read the chart from 80 feet away.

CHAPTER 8

8.1 CONCLUSION

The device presented here is a smart glass that incorporate the functionality of a machine vision and obstacle detection and recognition sensor. It can be conveniently advertised and made accessible to the visually disabled population. It would also help to deter future injuries. Smart devices can be transported comfortably and the system camera can be used to track objects and face from the surrounding environment and display in audio format. Each model represents a specific task or mode. The user can have the desired task run independently from the other tasks. The system design, working mechanism and principles were discussed along with some experiment results .Let the visually impaired people can interact more closely with the people around them, without fear of being blurred and uncertain.

8.2 FUTURE ENHANCEMENT

Although it is still a prototype, our system represents a promising avenue for future research aimed at enhancing the spatial awareness of visually impaired people traveling in unfamiliar environments.

INTERNSHIP

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Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.

Accredited by NAAC with "A" grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



INTERNSHIP DETAILS 2022-23

SI.N O	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731219205002	GOWTHAM.H	TRIOX TECHNOLOGIES	COIMBATORE	25.01.2023 to 31.01.2023
2	731219205004	MAHANTESH.S			
3	731219205005	NANDHINI.R			
4	731219205007	NAVEEN.S			
5	731219205008	NINGARAJU.S			
6	731219205009	NITHYA.K			
7	731219205010	PRABHU.M			
8	731219205011	PRIYADHARSINI.T			
9	731219205018	VAIDEVI.M			
10	731219205019	VAIGAIRAJ.M			

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JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (DT).



Internship

1 message

MON 16 Jan 2023 at 2.00pm

From: HODIT <hodit@jkkmct.edu.in>

Date: MON 16 Jan 2023 at 2.00pm

Subject: Internship-reg

To: TRIOX TECHNOLOGIES <hr.trioxtechnologies@gmail.com>

Dear Sir,


I am requesting to be joining your **TRIOX TECHNOLOGIES**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **GOWTHAM.H, MAHANTESH.S, NANDHINI.R, NAVEEN.S, NINGARAJU.S, NITHYA.K, PRABHU.M, PRIYADHARSINI.T, VAIDEVI.M, VAIGAIRAJ.M.**

Sincerely,

Final Year IT Student,
J K K Munirajah College of Technology,
T.N.Palayam, Erode-638506, Tamilnadu.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (DI).



Internship

1 message

THUR 19 Jan 2023 at 3.30pm

From: TRIOX TECHNOLOGIES <hr.trioxtechnologies@gmail.com >

Date: THUR 19 Jan 2023 at 3.30pm

Subject: **Internship-reg**

To: HODIT <hodit@jkkmct.edu.in>

Dear SIR,


I am writing to confirm my acceptance of your **internship** offer of **25.01.2023 to 31.01.2023** and to tell you how to be joining my **TRIOX TECHNOLOGIES**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on JAN 21, 2023 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: **GOWTHAM.H, MAHANTESH.S, NANDHINI.R, NAVEEN.S, NINGARAJU.S, NITHYA.K, PRABHU.M, PRIYADHARSINI.T, VAIDEVI.M, VAIGAIRAJ.M.**

Sincerely,

HR Manager,
TRIOX TECHNOLOGIES,
Coimbatore.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

TRIOX TECHNOLOGY

INDUSTRIAL TECHNICAL ENGINEERS ASSOCIATION IN COIMBATORE

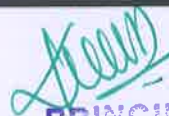
TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.VAIDEVI.M**, studying **B Tech Information Technology** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed **Internship Program** from **25.01.2023 to 31.01.2023** at **TRIOX TECHNOLOGIES,coimbatore**

During the **Internship**, her Performance was good.



Manager



PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-653 506.
GOBI (Tk), ET (D).

TRIOX TECHNOLOGY

INDUSTRIAL TECHNICAL ENGINEERS ASSOCIATION IN COIMBATORE


TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.PRIYADHARSINI.T**, studying **B Tech Information Technology** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed **Internship Program** from **25.01.2023 to 31.01.2023** at **TRIOX TECHNOLOGIES,coimbatore**

During the **Internship**, her Performance was good.



Manager



PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (PO)-638 506.
GOBI (TK), ERNACULAM

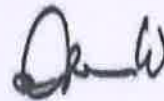
TRIOX TECHNOLOGY

INDUSTRIAL TECHNICAL ENGINEERS ASSOCIATION IN COIMBATORE


TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.NITHYA.K**, studying **B Tech Information Technology** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed **Internship Program** from **25.01.2023** to **31.01.2023** at **TRIOX TECHNOLOGIES,coimbatore**

During the **Internship**, her Performance was good.



Manager



PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

TRIOX TECHNOLOGY

INDUSTRIAL TECHNICAL ENGINEERS ASSOCIATION IN COIMBATORE


TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.NINGARAJU.S**, studying **B Tech Information Technology** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed **Internship Program** from **25.01.2023 to 31.01.2023** at **TRIOX TECHNOLOGIES,coimbatore**

During the **Internship**, her Performance was good.



Manager



PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).



TRIOX TECHNOLOGY

INDUSTRIAL TECHNICAL ENGINEERS ASSOCIATION IN COIMBATORE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.NAVEEN.S**, studying B Tech
Information Technology in **J.K.K.MUNIRAJAH COLLEGE OF
TECHNOLOGY** has successfully completed **Internship Program**
from **25.01.2023 to 31.01.2023** at **TRIOX
TECHNOLOGIES,coimbatore**

During the **Internship**, her Performance was good.

Manager

PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T. N. PALAYAM (Po)-638 506.
SOBI (Tk), ERODE

TRIOX TECHNOLOGY

INDUSTRIAL TECHNICAL ENGINEERS ASSOCIATION IN COIMBATORE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.NANDHINI.R**, studying **B Tech Information Technology** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed **Internship Program** from **25.01.2023 to 31.01.2023** at **TRIOX**

TECHNOLOGIES,coimbatore

During the **Internship**, her Performance was good.



Manager



PRINCIPAL
J.K.K.MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (P.O. 630 506,
GOBI (Tk), ER.

TRIOX TECHNOLOGY

INDUSTRIAL TECHNICAL ENGINEERS ASSOCIATION IN COIMBATORE

TO WHOMSOEVER IT MAY CONCERN


This is to certify that **Mr.MAHANTESH.S**, studying **B Tech Information Technology** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed **Internship Program** from **25.01.2023** to **31.01.2023** at **TRIOX**

TECHNOLOGIES,coimbatore

During the **Internship**, her Performance was good.



Manager



PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAKKOTTA
GOBI (T)

TRIOX TECHNOLOGY

INDUSTRIAL TECHNICAL ENGINEERS ASSOCIATION IN COIMBATORE


TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.GOWTHAM.H**, studying **B Tech Information Technology** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed **Internship Program** from **25.01.2023 to 31.01.2023** at **TRIOX TECHNOLOGIES**,coimbatore

During the **Internship**, her Performance was good.



Manager



PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po), 638 506.
GOBI (Tk), ERODE (Dt).

TRIOX TECHNOLOGY

INDUSTRIAL TECHNICAL ENGINEERS ASSOCIATION IN COIMBATORE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.GOWTHAM.H**, studying **B Tech Information Technology** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed **Internship Program** from **25.01.2023 to 31.01.2023** at **TRIOX TECHNOLOGIES,coimbatore**

During the **Internship**, her Performance was good.



PRINCIPAL
J.K.K. MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
ROBI (TK), ERODE (Dt).



Manager

TRIOX TECHNOLOGY

INDUSTRIAL TECHNICAL ENGINEERS ASSOCIATION IN COIMBATORE


TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.VAIGAIRAJ.M**, studying **B Tech Information Technology** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed **Internship Program** from **25.01.2023** to **31.01.2023** at **TRIOX TECHNOLOGIES,coimbatore**

During the **Internship**, her Performance was good.



Manager



PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).



J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.


Accredited by NAAC with "A" grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



INTERNSHIP DETAILS 2022-23

SL.N O	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731220205012	KAVIN.P	ACCENT TECHNO SOFT	COIMBATORE	10-7-2023
2	731220205012	POORANESHWARAN.N			TO 20-7-2023


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).



Internship

1 message

TUE 04Jul 2023 at 1.30pm

From: SUDHAKARS <sudhakars@jkkmct.edu.in>

Date: TUE 04Jul 2023 at 1.30pm

Subject: Internship-reg

To: ACCENTTECHNOSOFT <accenttechno@gmail.com>

Dear Sir,

I am requesting to be joining your **ACCENT TECHNO SOFT**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.


Refer the following students: **KAVIN.P, POORANESHWARAN.N**

Sincerely,

3 rd Year IT Students,

J K KMunirajah College of Technology,

T.N.Palayam, Erode-638506, Tamilnadu.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506,
GOBI (Tk), ERODE (Dt).



Internship

1 message

FRI 7 JUL 2023 at 3.30pm

From: ACCENTTECHNOSOFT <accenttechno@gmail.com>

Date: FRI 7 JUL 2023 at 3.30pm

Subject: Internship-reg

To: SUDHAKARS <sudhakars@jkkmct.edu.in>

Dear SIR,

I am writing to confirm my acceptance of your internship offer of 10.07.2023 to 20.07.2023 and to tell you how to be joining my **ACCENT TECHNO SOFT**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on JULY 8, 2023 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.


Refer the following students: **KAVIN.P, POORANESHWARAN.N**

Sincerely,

HR Manager,

ACCENT TECHNO SOFT,

Coimbatore.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).



ACCENT TECHNO SOFT
Quality Matters...



An ISO 9001:2015 Certified



20.07.2023
Coimbatore

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr.KAVIN P (Reg No:731220205012) of III B.Tech (Information Technology) student from JKK Munirajah College of Technology has successfully completed his Internship Training in " Full Stack Web Development " at our esteemed organization. The Internship duration is from 10.07.2023 to 20.07.2023 . During this period, he was sincere and regular in attending all the phases of internship program.

For Accent Techno Soft (ATS),



Authorized Signatory

PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po) - 638 506.
GOBI (TK), ERODE (Dt).

#203, Nehru Street, Ram Nagar, Coimbatore - 641009



ACCENT TECHNO SOFT
Quality Matters...



An ISO 9001:2015 Certified

20.07.2023
Coimbatore

TO WHOMSOEVER IT MAY CONCERN


This is to certify that **Mr. POORANESHWARAN N (Reg No: 731220205301)** of III B.Tech (Information Technology) student from JKK Munirajah College of Technology has successfully completed his Internship Training in "Full Stack Web Development" at our esteemed organization. The Internship duration is from 10.07.2023 to 20.07.2023.

During this period, he was sincere and regular in attending all the phases of internship program.

For Accent Techno Soft (ATS),



Authorized Signatory


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Ta), BRODE (Dt).

#203, Nehru Street, Ram Nagar, Coimbatore - 641009



J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.

Accredited by NAAC with "A" grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



INTERNSHIP DETAILS 2022-23

SL.N O	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731220205004	DEEPAK.A	ANJANA INFO TECH	RAJAPALAYAM	3-7-2023
2	731220205019	RAMKUMAR.R			TO 13-7-2023

PRINCIPAL

JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).



Internship

1 message

TUE 27 Jun 2023 at 1.30pm

From: SUDHAKARS <sudhakars@jkkmct.edu.in>

Date: TUE 27 Jun 2023 at 1.30pm

Subject: Internship-reg

To: ANJANAINFOTECH <anjanainfotech@gmail.com>

Dear Sir,


I am requesting to be joining your **ANJANA INFO TECH**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **DEEPAK.A, RAMKUMAR.R**

Sincerely,

3 rd Year IT Students,
J K KMunirajah College of Technology,
T.N.Palayam, Erode-638506, Tamilnadu.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638506,
GOBI (Tk), ERODE (Dt).



Internship

1 message

FRI 30 JUN 2023 at 3.30pm

From: ANJANAINFOTECH<anjanainfotech@gmail.com>

Date: FRI 30 JUN 2023 at 3.30pm

Subject: Internship-reg

To: SUDHAKARS<sudhakars@jkkmct.edu.in>

Dear SIR,

I am writing to confirm my acceptance of your **internship** offer of **03.07.2023 to 13.07.2023** and to tell you how to be joining my **ANJANA INFO TECH**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on JULY 2, 2023 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.


Refer the following students: **DEEPAK.A, RAMKUMAR.R**

Sincerely,

HR Manager,

ANJANA INFO TECH,

Rajapalayam.


PRINCIPAL
JKK MUNIRAJAN COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506,
GOBI (Tk), ERODE (Dt).



Anjana Infotech
Your Dream We Display

Date: 13.07.2023

INTERNSHIP TRAINING COMPLETION CERTIFICATE

This is to certify that the **internship training** entitled **Mobile App Development** submitted by **Mr. A. Deepak (731220205004)** Studying **B.Tech(IT)** at, **J.K.K Munirajah College of Technology** has undergone **internship training** at our **Anjana Infotech Private Limited Rajapalayam**, as a collaborative activity from **03.07.2023** to **13.07.2023**. He has successfully Completed his **Internship** under my Guidance and is worthy of consideration for the same.

Thanking you.



M. Sakthi Saravanan

M SAKTHI SARAVANAN
Proprietor

[Handwritten Signature]

PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506,
GOBLETU, GRODE (Dt),

info@anjanainfotech.in

anjanainfotech.in

352 B8/5, Illathupillamar Complex, Near Gandhi Statue,
Rajapalayam - 626 117.

+91 97879 70633 | +91 9787 248063





Anjana Infotech
Your Dream We Display

Date: 13.07.2023

INTERNSHIP TRAINING COMPLETION CERTIFICATE

This is to certify that the **internship training** entitled **Mobile App Development** submitted by **Mr. R. Ramkumar (731220205019)** Studying **B.Tech (IT)** at, **J.K.K Munirajah College of Technology** has undergone **internship training** at our **Anjana Infotech Private Limited Rajapalayam**, as a collaborative activity from **03.07.2023 to 13.07.2023**. He has successfully Completed his **Internship** under my Guidance and is worthy of consideration for the same.

Thanking you.



M. Sakthi Saravanan

M SAKTHI SARAVANAN
Proprietor

[Signature]
PRINCIPAL
J.K.K. MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOVT. ROAD (Dt).

info@anjanainfotech.in

359 B5/5, Ilathupillamar Complex, Near Gandhi Statue,
Rajapalayam - 626 117.

anjanainfotech.in

+91 97879 70633 | +91 9787 249063





J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.


Accredited by NAAC with "A" grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



INTERNSHIP DETAILS 2022-23

SI.N O	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731220205009	GOKUL.S	APPIN TECH	COIMBATORE	30.6.2023
2	731220205016	PANDIYARAJ.C			to
3	731220205020	RAVISANKARAN.N			
4	731220205024	THANGESHWARI.G			4.7.2023


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).



Internship

1 message

FRI 23 Jun 2023 at 2.00pm

From: SUDHAKARS<sudhakars@jkkmct.edu.in>

Date: FRI 23 Jun 2023 at 2.00pm

Subject: Internship-reg

To: APPIN<appintechhr@gmail.com>

Dear Sir,


I am requesting to be joining your **APPIN TECH**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **GOKUL.S, PANDIYARAJ.C, RAVISANKARAN.N,**
THANGESHWARI.G

Sincerely,

3 rd Year IT Students,
J K K Munirajah College of Technology,
T.N.Palayam, Erode-638506, Tamilnadu.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).



Internship

1 message

MON 26 Jun 2023 at 3.30pm

From: APPIN<appintechhr@gmail.com>

Date: MON 26 Jun 2023 at 3.30pm

Subject: Internship-reg

To: SUDHAKARS<sudhakars@jkkmct.edu.in>

Dear MADAM,

I am writing to confirm my acceptance of your internship offer of 30-6-2023 to 4.7.2023 and to tell you how to be joining my APPIN TECH. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 9:00 a.m. on JUNE 28, 2023 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: GOKUL.S, PANDIYARAJ.C, RAVISANKARAN.N,
THANGESHWARI.G

Sincerely,

HR Manager,
APPIN TECH,
COIMBATORE


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506,
GOBI (TK), ERODE (Dt).

Date : 04.07.2023

INTERNSHIP CERTIFICATE

This is to inform that **Mr. GOKUL S (731220205009)**, Third year, **BACHELOR OF TECHNOLOGY** in **INFORMATION TECHNOLOGY**, student of **J. K. K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM**, has attended **Internship training** in our organization from **June 30th 2023 to July 04th 2023**.

During this **Internship training**, He has learned the overview concepts of **DATA SCIENCE WITH PYTHON**.

Thanking You.

144, Sengupta Street, Ram Nagar,
Coimbatore-641009

Cell : +91-95972 71533 W: www.appinCoimbatore.com
+91-77080 40308 E : mohan@coimbatore.com



#startupidia

NPTEL

PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

CS8691

ARTIFICIAL INTELLIGENCE

L T P C

3 0 0 3

OBJECTIVES:

- To understand the various characteristics of Intelligent agents
- To learn the different search strategies in AI
- To learn to represent knowledge in solving AI problems
- To understand the different ways of designing software agents
- To know about the various applications of AI.

UNIT I INTRODUCTION

9

Introduction-Definition-Future of Artificial Intelligence-Characteristics of Intelligent Agents-Typical Intelligent Agents-Problem Solving Approach to Typical AI problems.

UNIT II PROBLEM SOLVING METHODS

9

Problem solving Methods - Search Strategies- Uninformed - Informed - Heuristics - Local Search Algorithms and Optimization Problems- Searching with Partial Observations- Constraint Satisfaction Problems-Constraint Propagation-Backtracking Search-Game Playing-Optimal Decisions in Games-Alpha-Beta Pruning-Stochastic Games

UNIT III KNOWLEDGE REPRESENTATION

9

First Order Predicate Logic - Prolog Programming - Unification - Forward Chaining-Backward Chaining - Resolution - Knowledge Representation - Ontological Engineering- Categories and Objects - Events - Mental Events and Mental Objects - Reasoning Systems for Categories -Reasoning with Default Information

UNIT IV SOFTWARE AGENTS

9

Architecture for Intelligent Agents-Agent communication-Negotiation and Bargaining-Argumentation among Agents-Trust and Reputation in Multi-agents systems.

UNIT V APPLICATIONS

9

AI applications - Language Models - Information Retrieval- Information Extraction - Natural Language Processing - Machine Translation - Speech Recognition - Robot - Hardware - Perception-Planning-Moving

TOTAL:45 PERIODS

OUTCOMES:

Up on completion of the course, the students will be able to:


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).

- Use appropriate search algorithms for any AI problem
- Represent a problem using first order and predicate logic
- Provide the apt agent strategy to solve a given problem
- Design software agents to solve a problem
- Design applications for NLP that use Artificial Intelligence.

TEXTBOOKS:

- 1 S.Russell and P.Norvig, "Artificial Intelligence: A Modern Approach", Prentice Hall, Third Edition, 2009.
- 2 I.Bratko, —Prolog: Programming for Artificial Intelligence, Fourth edition, Addison-Wesley Educational Publishers Inc., 2011.

REFERENCES:

1. M.Tim Jones, —Artificial Intelligence: A Systems Approach (Computer Science), Jones and Bartlett Publishers, Inc.; First Edition, 2008
2. Nils J.Nilsson, —The Quest for Artificial Intelligence, Cambridge University Press, 2009.
3. William F.Clocks in and Christopher S.Mellish, "Programming in Prolog: Using the ISO Standard", Fifth Edition, Springer, 2003.
4. Gerhard Weiss, —Multi Agent Systems, Second Edition, MIT Press, 2013.
5. David L.Poole and Alan K.Mackworth, —Artificial Intelligence: Foundation of Computational Agents, Cambridge University Press, 2010.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

Date : 04.07.2023

INTERNSHIP CERTIFICATE

This is to inform that **Ms. THANGESHWARI G (731220205024)**, Third year, **BACHELOR OF TECHNOLOGY in INFORMATION TECHNOLOGY**, student of **J. K. K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM**, has attended **Internship training** in our organization from **June 30th 2023 to July 04th 2023**.

During this **Internship training**, She has learned the overview concepts of **DATA SCIENCE WITH PYTHON**.

Thanking You.

144, Sengupta Street, Ram Nagar,
Coimbatore-641009

Cell : +91-95972 71533 W: www.appinCoimbatore.com
+91-77080 40308 E : mohan@coimbatore.com



#startupidia

NPTEL

PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).


Date : 04.07.2023

INTERNSHIP CERTIFICATE

This is to inform that **Mr. PANDIYARAJ C(731220205016)**, Third year, **BACHELOR OF TECHNOLOGY In INFORMATION TECHNOLOGY**, student of **J. K. K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM**, has attended **Internship training** in our organization from **June 30th 2023 to July 04th 2023**.

During this **Internship training**, He has learned the overview concepts of **DATA SCIENCE WITH PYTHON**.

Thanking You.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506,
GOBI (Tk), ERODE (Dt).

Date : 04.07.2023

INTERNSHIP CERTIFICATE

This is to inform that **Mr. RAVISANKARAN N (731220205020)**, Third year, **BACHELOR OF TECHNOLOGY in INFORMATION TECHNOLOGY**, student of **J. K. K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM**, has attended **Internship training** in our organization from **June 30th 2023 to July 04th 2023**.

During this **Internship training**, He has learned the overview concepts of **DATA SCIENCE WITH PYTHON**.

Thanking You.



PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Pc)-638 506.
GOBI (Tk), ERODE (Dt).

144, Sengupta Street, Ram Nagar,
Coimbatore-641009

Cell :+91-95972 71533 W:www.appinCoimbatore.com
+91-77080 40308 E :mohan@coimbatore.com



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ONPTEL

J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY



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Accredited by NAAC with "A" grade



T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

INTERNSHIP DETAILS 2022-23

SL.N O	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731220205001	AJAYSRI.A	ETHER INFO TECH	COIMBATORE	4-7-2023 TO 18-7-2023
2	731220205011	KALAISELVI.K			
3	731220205017	PARVATHY.A			
4	731220205018	PRIYANKA.S			
5	731220205303	SHILPA.C			


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).



Internship

1 message

WED 28 Jun 2023 at 2.00pm

From: SUDHAKARS <sudhakars@jkkmct.edu.in>

Date: WED 28 Jun 2023 at 2.00pm

Subject: Internship-reg

To: ETHER INFO TECH <prasanth@etherinfotech.com>

Dear Sir,


I am requesting to be joining your **ETHER INFO TECH**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **AJAYSRI.A, KALAISELVI.K, PARVATHY.A, PRIYANKA.S, SHILPA.C**

Sincerely,

3 rd Year IT Students,
J K K Munirajah College of Technology,
T.N.Palayam, Erode-638506, Tamilnadu.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638506.
GOBI (Tk), ERODE (Dt).



Internship

1 message

FRI 30 Jun 2023 at 3.30pm

From: ETHER INFO TECH<prasanth@etherinfotech.com>

Date: FRI 30 Jun 2023 at 3.30pm

Subject: Internship-reg

To: SUDHAKARS<sudhakars@jkkmct.edu.in>

Dear Sir,


I am writing to confirm my acceptance of your internship offer of 04-7-2023 to 18.7.2023 and to tell you how to be joining my **ETHER INFO TECH**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 9:00 a.m. on July 3, 2023 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: **AJAYSRIA, KALAISELVI.K, PARVATHY.A, PRIYANKA.S, SHILPA.C**

Sincerely,

HR Manager,
ETHER INFO TECH,
COIMBATORE.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506,
GOBI (Tk), ERODE (Dt).

Date: 18/07/2023


INTERNSHIP CERTIFICATE

This is to inform that Ms. AJAY SRI .A, 3rd year, B.TECH — INFORMATION TECHNOLOGY, student of JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, ERODE, has attended Internship training in our organization from July 04th 2023 to July 18th 2023.

During this Internship training, she has learned the overview concepts of PYTHON.

Thanking You.

For Ether Infotech


Authorised Signatory



Date: 18/07/2023

INTERNSHIP CERTIFICATE

This is to inform that Ms. KALAISELVI .K, 3rd year, B.TECH – INFORMATION TECHNOLOGY, student of JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, ERODE, has attended Internship training in our organization from July 04th 2023 to July 18th 2023.

During this Internship training, she has learned the overview concepts of PYTHON.

Thanking You.

For Ether Infotech

Authorized Signatory

35/4, 2nd Floor, Arputham Towers, Desabandhu Street, Ram Nagar, Coimbatore - 641009

W: www.etherinfotech.com | T: 0422 - 3511420 | M: 95002 95905 | E: info@etherinfotech.com


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506,
GOBI (Tk), ERODE (Dt).



Date: 18/07/2023

INTERNSHIP CERTIFICATE

This is to inform that **Ms. PARVATHY .A**, 3rd year, B.TECH – INFORMATION TECHNOLOGY, student of JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, ERODE, has attended **Internship training** in our organization from July 04th 2023 to July 18th 2023.

During this **Internship training**, she has learned the overview concepts of **PYTHON**.

Thanking You.

For Ether Infotech

Authorised Signatory

35/4, 2nd Floor, Arputham Towers, Desabandhu Street, Ram Nagar, Coimbatore - 641009

W: www.etherinfotech.com | T: 0422 - 3511420 | M: 95002 95905 | E: info@etherinfotech.com

A handwritten signature in green ink, appearing to read 'Arun', written over a horizontal line.

PRINCIPAL

**JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY**

**T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).**



Date: 18/07/2023

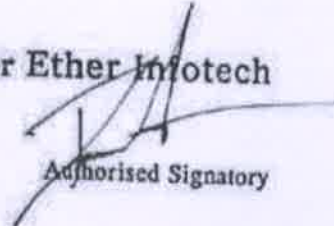
INTERNSHIP CERTIFICATE


This is to inform that Ms. PRIYANKA .S, 3rd year, B.TECH – INFORMATION TECHNOLOGY, student of JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, ERODE, has attended Internship training in our organization from July 04th 2023 to July 18th 2023.

During this Internship training, she has learned the overview concepts of PYTHON.

Thanking You.

For Ether Infotech


Authorized Signatory


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506,
GOBI (Tk), ERODE (Dt).

35/4, 2nd Floor, Arputham Towers, Desabandhu Street, Ram Nagar, Coimbatore - 641009

W: www.etherinfotech.com | T: 0422 - 3511420 | M: 95002 95905 | info@etherinfotech.com



Date: 18/07/2023


INTERNSHIP CERTIFICATE

This is to inform that **Ms. SHILPA .C**, 3rd year, **B.TECH – INFORMATION TECHNOLOGY**, student of **JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, ERODE**, has attended **Internship training** in our organization from **July 04th 2023 to July 18th 2023**.

During this **Internship training**, she has learned the overview concepts of **PYTHON**.

Thanking You.

For Ether Infotech


Authorized Signatory



PRINCIPAL
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Accredited by NAAC with "A" grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



INTERNSHIP DETAILS 2022-23

SI.N O	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731220205007	DHINESHKUMAR .M	ETHER INFO TECH	COIMBATORE	6-7-2023 to 12-7-2023
2	731220205008	DINESH.S			
3	731220205013	LENA TAMILVANAN.G			
4	731220205014	MAYILRAJ.V			
5	731220205015	MUTHUKUMAR.G			
6	731220205023	SRIRAM.V			


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OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).



Internship

1 message

WED 28 Jun 2023 at 2.00pm

From: SUDHAKARS <sudhakars@jkkmct.edu.in>

Date: WED 28 Jun 2023 at 2.00pm

Subject: Internship-reg

To: ETHER INFO TECH <prasanth@etherinfotech.com>

Dear Sir,


I am requesting to be joining your **ETHER INFO TECH**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **DHINESHKUMAR .M, DINESH.S, LENA TAMILVANAN.G
MAYILRAJ.V, MUTHUKUMAR.G, SRIRAM.V**

Sincerely,

3 rd Year IT Students,
J K K Munirajah College of Technology,
T.N.Palayam, Erode-638506, Tamilnadu.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).



Internship

1 message

FRI 30 Jun 2023 at 3.30pm

From: ETHER INFO TECH<prasanth@etherinfotech.com>

Date: FRI 30 Jun 2023 at 3.30pm

Subject: Internship-reg

To: SUDHAKARS<sudhakars@jkkmct.edu.in>

Dear Sir,


I am writing to confirm my acceptance of your internship offer of 06-7-2023 to 12.7.2023 and to tell you how to be joining my **ETHER INFO TECH**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 9:00 a.m. on July 4, 2023 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: **DHINESHKUMAR .M, DINESH.S, LENA TAMILVANAN.G, MAYILRAJ.V, MUTHUKUMAR.G, SRIRAM.V**

Sincerely,

HR Manager,
ETHER INFO TECH,
COIMBATORE.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-639 506.
GOBI (Tk), ERODE (Dt).



Date: 12/07/2023

INTERNSHIP CERTIFICATE

This is to inform that **Ms. LENA TAMILVANAN .G, B.TECH - INFORMATION TECHNOLOGY**, student of **JKKM COLLEGE OF TECHNOLOGY, ERODE**, has attended **Internship training** in our organization from **July 06th 2023 to July 12th 2023**.

During this **Internship training**, she has learned the overview concepts of **MACHINE LEARNING**.

Thanking You.

For Ether Infotech

Authorised Signatory

A handwritten signature in green ink, appearing to read "Lena", written over the printed name of the principal.

PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).





Date: 12/07/2023

INTERNSHIP CERTIFICATE

This is to inform that **Mr. DHINESH KUMAR .M, B.TECH, INFORMATION TECHNOLOGY**, student of **JKKM COLLEGE OF TECHNOLOGY, ERODE**, has attended **Internship training** in our organization from **July 06th 2023 to July 12th 2023**.

During this **Internship training**, he has learned the overview concepts of **MACHINE LEARNING**.

Thanking You.

For Ether Infotech

Authorized Signatory

PRINCIPAL

**JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY**

**T. N. PALAYAM (Po)-638 506.
SBI (TK), ERODE (Dt).**





Date: 12/07/2023


INTERNSHIP CERTIFICATE

This is to inform that **Mr. MUTHUKUMAR .G, B.TECH, INFORMATION TECHNOLOGY**, student of **JKKM COLLEGE OF TECHNOLOGY, ERODE**, has attended **Internship training** in our organization from **July 06th 2023 to July 12th 2023**.

During this **Internship training**, he has learned the **overview concepts of DIGITAL MARKETING**.

Thanking You.

For Ether Infotech


Authorised Signatory



PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506,
GOBI (Tk), ERODE (Dt).





Date: 12/07/2023

INTERNSHIP CERTIFICATE

This is to inform that **Mr. MAYILRAJ .V, B.TECH - INFORMATION TECHNOLOGY**, student of **JKKM COLLEGE OF TECHNOLOGY, T.N. PALAYAM, ERODE**, has attended **Internship training** in our organization from **July 06th 2023 to July 12th 2023**.

During this **Internship training**, he has learned the overview concepts of **MACHINE LEARNING**.

Thanking You.

For Ether Infotech


Authorised Signatory



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OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506,
GOBI (TK), ERODE (Dt).





Date: 12/07/2023

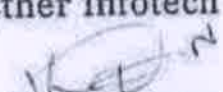
INTERNSHIP CERTIFICATE

This is to inform that **Mr. DINESH .S, B.TECH - INFORMATION TECHNOLOGY**, student of **JKKM COLLEGE OF TECHNOLOGY, T.N. PALAYAM, ERODE**, has attended **Internship training** in our organization from **July 06th 2023 to July 12th 2023**.

During this **Internship training**, he has learned the overview concepts of **MACHINE LEARNING**.

Thanking You.

For Ether Infotech


Authorized Signatory


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OF TECHNOLOGY
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(TK), ERODE (Dt).



J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY



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Accredited by NAAC with "A" grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



INTERNSHIP DETAILS 2022-23

SI.N O	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731220205021	SHIJINKUMAR K.G	NETWORK SYSTEMS	MARTHANDAM	4-7-2023 TO 20-7-2023


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).



Internship1 message

TUE 27Jun 2023 at 1.30pm

From: SUDHAKARS <sudhakars@jkkmct.edu.in>

Date: TUE 27Jun 2023 at 1.30pm

Subject: Internship-reg

To: NETWORKZ SYSTEMS <hrnetworkzsystem@gmail.com>

Dear Sir,

I am requesting to be joining your **NETWORKZ SYSTEMS**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **SHIJINKUMAR K.G**

Sincerely,

3 rd Year IT Student,

J K KMunirajah College of Technology,

T.N.Palayam, Erode-638506, Tamilnadu.

PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506,
GOBI (Tk), ERODE (Dt).



Internship1message

FRI 30 JUN 2023 at 3.30pm

From: NETWORKZ SYSTEMS<hrnetworkzsystem@gmail.com>

Date: FRI 30 JUN 2023 at 3.30pm

Subject: Internship-reg

To: SUDHAKARS<sudhakars@jkkmct.edu.in>

Dear SIR,


I am writing to confirm my acceptance of your internship offer of 04.07.2023 to 20.07.2023 and to tell you how to be joining my NETWORKZ SYSTEMS. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on JULY 2, 2023 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following student: SHIJINKUMAR K.G

Sincerely,

HR Manager,
NETWORKZSYSTEMS,
Marthandam.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-628 506.
GOBI (TK), ERODE (Dt).

Certificate of Completion



ID: NSKMM0723025

Validate
@
www.networkzsystems.com



Awarded to: **SHIJIN KUMAR K G**

In: **FOUNDATION IN SOFTWARE DEVELOPMENT**

At: **NETWORKZ SYSTEMS, MARTHANDAM, INDIA**

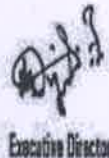
During: **04/07/2023 To 20/07/2023**

Duration: **24 Hrs**

Issued On: **20/07/2023**

Skill Set:

INTERNSHIP IN PYTHON



NETWORKZ SYSTEMS offers very comprehensive and high quality training. This participant is trained by well experienced instructor in the latest technology.

Head Office : 3rd floor, Bhadra centre, Ayurveda college In, Trivandrum -695001, Kerala, India.

www.networkzsystems.com

PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PULAYAM (Po)-638 506.
C. D. K. BRODE (Dt).

J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY



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Accredited by NAAC with "A" grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



INTERNSHIP DETAILS 2022-23

SL.N O	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731220205302	RAVINDHIRAN.R	SAM CORE	TRICHY	10-7-2023 TO 14-7-2023

PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506,
GOBI (Tk), ERODE (Dt).



Internship

1 message

MON 3JUL 2023 at 1.30pm

From: SUDHAKARS <sudhakars@jkkmct.edu.in>

Date: MON 3JUL 2023 at 1.30pm

Subject: Internship-reg

To: SAMCORE SOLUTIONS <hrsamcore@gmail.com>

Dear Sir,

I am requesting to be joining your **SAMCORE SOLUTION**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.


Refer the following students: **RAVINDHIRAN.R**

Sincerely,

3 rd Year IT Student,

J K KMunirajah College of Technology,

T.N.Palayam, Erode-638506, Tamilnadu.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).



Internship

1 message

WED 05 JUN 2023 at 3.30pm

From: hrsamcore@gmail.com >

Date: WED 05 JUN 2023 at 3.30pm

Subject: Internship-reg

To: SAMCORE SOLUTIONS <sudhakars@jkkmct.edu.in>

Dear SIR,


I am writing to confirm my acceptance of your internship offer of 10.07.2023 to 14.07.2023 and to tell you how to be joining my SAMCORE SOLUTIONS . The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on JULY 8, 2023 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following student: RAVINDHIRAN.R

Sincerely,

HR Manager,
SAMCORE SOLUTIONS,
Trichy.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

OBJECTIVES:

- To understand the concept of cloud computing.
- To appreciate the evolution of cloud from the existing technologies.
- To have knowledge on the various issues in cloud computing.
- To be familiar with the lead players in cloud.
- To appreciate the emergence of cloud as the next generation computing paradigm.

UNIT I INTRODUCTION**9**

Introduction to Cloud Computing — Definition of Cloud — Evolution of Cloud Computing — Underlying Principles of Parallel and Distributed Computing — Cloud Characteristics — Elasticity in Cloud — On-demand Provisioning.

UNIT II CLOUD ENABLING TECHNOLOGIES**10**

Service Oriented Architecture – REST and Systems of Systems – Web Services – Publish-Subscribe Model – Basics of Virtualization – Types of Virtualization – Implementation Levels of Virtualization – Virtualization Structures – Tools and Mechanisms – Virtualization of CPU – Memory – I/O Devices – Virtualization Support and Disaster Recovery.

UNIT III CLOUD ARCHITECTURE, SERVICES AND STORAGE**8**

Layered Cloud Architecture Design – NIST Cloud Computing Reference Architecture – Public, Private and Hybrid Clouds - IaaS – PaaS – SaaS – Architectural Design Challenges – Cloud Storage – Storage-as-a-Service – Advantages of Cloud Storage – Cloud Storage Providers – S3.


UNIT IV RESOURCE MANAGEMENT AND SECURITY IN CLOUD**10**

Inter Cloud Resource Management – Resource Provisioning and Resource Provisioning Methods – Global Exchange of Cloud Resources – Security Overview – Cloud Security Challenges – Software-as-a-Service Security – Security Governance – Virtual Machine Security – IAM – Security Standards.

UNIT V CLOUD TECHNOLOGIES AND ADVANCEMENTS**8**

Hadoop – MapReduce – Virtual Box -- Google App Engine – Programming Environment for Google App Engine — Open Stack – Federation in the Cloud – Four Levels of Federation – Federated Services and Applications – Future of Federation.

TOTAL: 45 PERIODS


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
 VAYAM (P.O)-638 506.
 RODE (Dt).

OUTCOMES:

On Completion of the course, the students should be able to:

- Articulate the main concepts, key technologies, strengths and limitations of cloud computing.
- Learn the key and enabling technologies that help in the development of cloud.
- Develop the ability to understand and use the architecture of compute and storage cloud, service and delivery models.
- Explain the core issues of cloud computing such as resource management and security.
- Be able to install and use current cloud technologies.
- Evaluate and choose the appropriate technologies, algorithms and approaches for implementation and use of cloud.

TEXTBOOKS:

1. Kai Hwang, Geoffrey C. Fox, Jack G. Dongarra, "Distributed and Cloud Computing, From Parallel Processing to the Internet of Things", Morgan Kaufmann Publishers, 2012.
2. Rittinghouse, John W., and James F. Ransome, —Cloud Computing: Implementation, Management and Security, CRC Press, 2017.

REFERENCES:

1. Rajkumar Buyya, Christian Vecchiola, S. Thamarai Selvi, —Mastering Cloud Computing, Tata Mcgraw Hill, 2013.
2. Toby Velte, Anthony Velte, Robert Elsenpeter, "Cloud Computing- A Practical Approach", Tata Mcgraw Hill, 2009.
3. George Reese, "Cloud Application Architectures: Building Applications and Infrastructure in the Cloud : Transactional Systems for EC2 and Beyond (Theory in Practice)", O'Reilly, 2009.


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T. N. PALAYAM (PO)-638 506.
COBI (TK), ERODE (DT).



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CERTIFICATE OF INTERNSHIP

This is to certify that Mr. Ms.

Ravindhiran.R (731220205302)

Student of B.TECH - IT JKK MUNIRAJAH COLLEGE OF TECHNOLOGY

has completed the Internship Program on IMAGE PROCESSING

for the period from 10-07-2023 to 14-07-2023

CERT. NO.: 2023/07676

#16, 2nd Floor, Rangan Complex
Chetram Bus Stand, Trichy - 620002
9843207599. www.samcoresolution.in



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OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).

C. A. P. S.
HEAD

J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY



Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.

Accredited by NAAC with "A" grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



INTERNSHIP DETAILS 2022-23

SL.N O	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731221205009	DINESH M	CODE BIND TECHNOLOGY	CHENNAI	27.06.2023 to 03.07.2023
2	731221205011	KARTHICKRAJA G			
3	731221205013	KOWSALYA G			
4	731221205022	MAVURIYA D			
5	731221205026	MOTHIR L			
6	731221205028	NANDHINI S			
7	731221205030	PANDEESWARAN C K			
8	731221205031	PARTHIBAN M			
9	731221205033	RATHNA R			
10	731221205035	RITHIK S			
11	731221205040	SUYAMBURAJ C			

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T.N. PALAYAM (PO)-638 506.
GOBI (TK), ERODE (DT).



Internship

1 message

MON 19 Jun 2023 at 2.00pm

From: SANGEETHA <sangeethap@jkkmct.edu.in>

Date: MON 19 Jun 2023 at 2.00pm

Subject: **Internship-reg**

To: CODEBINDTECHNOLOGIES <info@codebindtechnologies.in>

Dear Sir,


I am requesting to be joining your **CODE BIND TECHNOLOGY**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **DINESH M, KARTHICKRAJA G, KOWSALYA G, MAVURIYA D, MOTHIR L, NANDHINI S, PANDEESWARAN C K, PARTHIBAN M, RATHNA R, RITHIK S, SUYAMBURAJ C**

Sincerely,

2 nd Year IT Student,
J K K Munirajah College of Technology,
T.N.Palayam, Erode-638506, Tamilnadu.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).



Internship

1 message

THUR 22 Jun 2023 at 3.30pm

From: CODEBINDTECHNOLOGIES<info@codebindtechnologies.in>

Date: THUR 22 Jun 2023 at 3.30pm

Subject: Internship-reg

To: SANGEETHA<sangeethap@jkkmct.edu.in>

Dear MADAM,


I am writing to confirm my acceptance of your **internship** offer of **27.06.2023 to 03.07.2023** and to tell you how to be joining my **CODE BIND TECHNOLOGY**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on JUN 23, 2023 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: **DINESH M, KARTHICKRAJA G, KOWSALYA G, MAVURIYA D, MOTHIR L, NANDHINI S, PANDEESWARAN C K, PARTHIBAN M, RATHNA R, RITHIK S, SUYAMBURAJ C**

Sincerely,

HR Manager,
CODE BIND TECHNOLOGY,
CHENNAI.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).



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CERTIFICATE NUMBER:

WORKSHOP PARTICIPATION CERTIFICATE

CBTNE272005230601

This certificate is awarded to RITHIK.S, for his/her active

and invaluable contribution to the One Day Workshop on ANDROID

held on 01.07.2023 at Code Bind Technologies, Chennai. During the Workshop period

the performance of the trainee was found to be GOOD.

107, Usman Road, T.Nagar, Chennai-17.

Opposite to The Chennai Silks.



[Signature]
Training Facilitator



[Signature]
Issuing Authority

Head Office: T.Nagar, Chennai.

Branch Office : Coimbatore. Trichy.

info@codebindtechnologies.com

www.codebindtechnologies.com

+91 9789 617 617



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GOBI (TK), ERODE (Dt).

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107, Usman Road, T.Nagar, Chennai

Opposite to The Chennai Silks

+91 9789 617 617, 9789 617 717

www.codebindtechnologies.com

info@codebindtechnologies.com

INPLANT TRAINING CERTIFICATE

CERTIFICATE NUMBER **CBTIP272005230601**

This certificate is awarded to RITHIK S,

who has undergone Inplant Training in INTERNET OF THINGS (IoT),

from 27.06.2023 to 03.07.2023 at CodeBind Technologies,

Chennai. During the course of training period, the conduct of the

trainee was found to be GOOD.



Training Facilitator



Issuing Authority

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OF TECHNOLOGY
T.N. PALAYAM (Po)- 633 506.
GOBI (TK), ERODE (Dt).

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CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER CBTINE272005230601


This certificate is awarded to **Mr/Ms. RITHIK.S**, for the successful completion of **Internship in Internet of Things (IoT)** at **CodeBind Technologies, Chennai** from **27th June 2023 to 03rd July 2023**.

During the course of the **internship** **Mr/Ms. RITHIK.S**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.


Training Co-Ordinator




Issuing Authority




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OF TECHNOLOGY
T.N. PALAYAM

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Chennai-17.

🌐 www.codebindtechnologies.com

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✉ info@codebindtechnologies.com

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mms




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CERTIFICATE OF PROJECT COMPLETION


CERTIFICATE NUMBER CBTINE272005230601

This certificate is awarded to **Mr/Ms. RITHIK.S**, on the successful completion of the project titled "**IoT based noise pollution monitoring system using microphone sensor**" at **CodeBind Technologies, Chennai**, from **27th June 2023 to 03rd July 2023**.

We found the candidate to be highly self-motivated, duty bound and hard working. The performance was above satisfactory and we wish them all the best in their future career.


Training Co-Ordinator




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CERTIFICATE OF PROJECT COMPLETION

CERTIFICATE NUMBER | CBTINE272005230605

This certificate is awarded to **Mr/Ms. PARTHIBAN.M**, on the successful completion of the project titled "**IoT based noise pollution monitoring system using microphone sensor**" at **CodeBind Technologies, Chennai**, from **27th June 2023 to 03rd July 2023**.


We found the candidate to be highly self-motivated, duty bound and hard working. The performance was above satisfactory and we wish them all the best in their future career.


Training Co-Ordinator




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CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER | CBTINE272005230605


This certificate is awarded to **Mr/Ms. PARTHIBAN.M**, for the successful completion of **Internship in Internet of Things (IoT)** at **CodeBind Technologies, Chennai** from **27th June 2023 to 03rd July 2023**.

During the course of the **internship** **Mr/Ms. PARTHIBAN.M**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.


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CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER CBTINE272005230610


This certificate is awarded to **Mr/Ms. RATHNA.R**, for the successful completion of **Internship in Internet of Things (IoT)** at **CodeBind Technologies, Chennai** from **27th June 2023 to 03rd July 2023**.

During the course of the **internship** **Mr/Ms. RATHNA.R**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.


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CERTIFICATE OF PROJECT COMPLETION

CERTIFICATE NUMBER | CBTINE272005230610

This certificate is awarded to **Mr/Ms. RATHNA.R**, on the successful completion of the project titled **"IoT based motion detector using PIR sensor"** at **CodeBind Technologies, Chennai**, from **27th June 2023 to 03rd July 2023**.


We found the candidate to be highly self-motivated, duty bound and hard working. The performance was above satisfactory and we wish them all the best in their future career.


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[Signature]
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T.N. PALAYAM (Po)-638 005.
GOBI (TK), ERODE (D)

This certificate is awarded to Mr/Ms. **PANDEESWARAN.C.K**, on the successful completion of the project titled "**IoT based noise pollution monitoring system using microphone sensor**" at **CodeBind Technologies, Chennai**, from **27th June 2023 to 03rd July 2023**.

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CERTIFICATE NUMBER	CBTINE272005230604
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T.N. PALAYAM (Po)-638
GOBI (Tk), ERODE (D)

This certificate is awarded to Mr/Ms. **PANDEESWARAN.C.K**, for the successful completion of **Internship in Internet of Things (IoT)** at **CodeBind Technologies, Chennai** from **27th June 2023 to 03rd July**

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CERTIFICATE NUMBER	CBTINE272005230603
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T.N. PALAYAM (Po)-8
GOSI (Tk), ERODE

This certificate is awarded to Mr/Ms. **NANDHINI.S.** on the successful completion of the project titled "**IoT based noise pollution monitoring system using microphone sensor**" at **CodeBind Technologies, Chennai**, from **27th June 2023 to 03rd July 2023.**

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CERTIFICATE NUMBER	CBTINE272005230603
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T.N. PALAYAM (PO) 605 506.
GUBI (TK), ERODE (Dt).

This certificate is awarded to Mr/Ms. **NANDHINI.S.** for the successful completion of **Internship in Internet of Things (IoT)** at **codebind Technologies, Chennai** from **27th June 2023 to 03rd July**

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CERTIFICATE NUMBER

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GOBI (TK), ERODE Dt.

This certificate is awarded to Mr/Ms. **MOTHIR.L**, for the successful completion of **Internship in Internet of Things (IoT)** at CodeBind Technologies, Chennai from **27th June 2023 to 03rd July 2023.**



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CERTIFICATE NUMBER :

CBTWE272005230602

WORKSHOP PARTICIPATION CERTIFICATE

This certificate is awarded to MOTHIR.L, for his/her acti
and invaluable contribution to the One Day Workshop on ANDROID
held on 01.07.2023 at Code Bind Technologies, Chennai. During the Workshop period
the performance of the trainee was found to be GOOD.

[Signature]

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IKK MUNIRAJAH COLLEGE
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PALAYAM (Po) 628 506,
TIRUPATI (TK), ERODE (Dt).



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Training Facilitator

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Issuing Authority

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Opposite to The Chennai Silks.



Head Office: T.Nagar, Chennai.
Branch Office : Coimbatore. Trichy.

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CERTIFICATE OF PROJECT COMPLETION

CERTIFICATE NUMBER | CBTINE272005230602

This certificate is awarded to Mr./Ms. **MOTHIR.L**, on the successful completion of the project titled "**IoT based noise pollution monitoring system using microphone sensor**" at **CodeBind Technologies, Chennai**, from **27th June 2023 to 03rd July 2023**.

We found the candidate to be highly self-motivated, duty bound and hard working. The performance was above satisfactory and we wish them all the best in their future career.


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GOBI (Tk), ERODE (Dt).



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CERTIFICATE OF PROJECT COMPLETION


CERTIFICATE NUMBER | CBTINE272005230609

This certificate is awarded to Mr/Ms. **MAVURIYA.D**, on the successful completion of the project titled **"IoT based motion detector using PIR sensor"** at CodeBind Technologies, Chennai, from **27th June 2023 to 03rd July 2023**.

We found the candidate to be highly self-motivated, duty bound and hard working. The performance was above satisfactory and we wish them all the best in their future career.


Training Co-Ordinator




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GOBI (Tk), ERODE (Dt).



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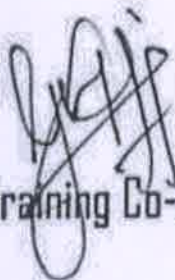
CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER CBTINE272005230611


This certificate is awarded to Mr/Ms. **KOWSALYA.G**, for the successful completion of **Internship in Internet of Things (IoT)** at **CodeBind Technologies, Chennai** from **27th June 2023 to 03rd July 2023**.

During the course of the internship Mr/Ms. **KOWSALYA.G**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.


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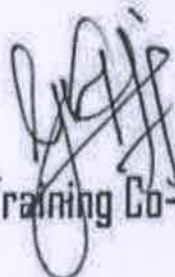
CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER CBTINE272005230611


This certificate is awarded to Mr/Ms. **KOWSALYA.G**, for the successful completion of **Internship in Internet of Things (IoT)** at **CodeBind Technologies, Chennai** from **27th June 2023 to 03rd July 2023.**

During the course of the **internship** Mr/Ms. **KOWSALYA.G**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.


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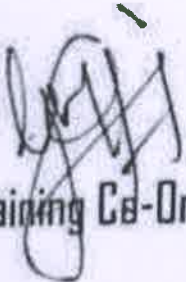
CERTIFICATE NUMBER | CBTINE272005230607

This certificate is awarded to Mr/Ms. **KARTHICKRAJA.G**, for the successful completion of **Internship in Internet of Things (IoT)** at **CodeBind Technologies, Chennai** from **27th June 2023 to 03rd July 2023**.

During the course of the internship Mr/Ms. **KARTHICKRAJA.G**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.




Training Co-Ordinator




Issuing Authority

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JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY

T.N. PALAYAM (CB)
GOVT



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CERTIFICATE OF PROJECT COMPLETION

CERTIFICATE NUMBER CBTINE272005230606

This certificate is awarded to Mr/Ms. **DINESH.M**, on the successful completion of the project titled "**IoT based motion detector using PIR sensor**" at **CodeBind Technologies, Chennai**, from **27th June 2023** to **03rd July 2023**.

We found the candidate to be highly self-motivated, duty bound and hard working. The performance was above satisfactory and we wish them all the best in their future career.


Training Co-Ordinator




Issuing Authority




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OF TECHNOLOGY
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GOBI (Tk), ERODE (Dt).



J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY



Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.

Accredited by NAAC with "A" grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



INTERNSHIP DETAILS 2022-23

SL.N O	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731221205010	DIVYA S	CODE BIND TECHNOLOGY	COIMBATORE	10.07.2023 to 14.07.2023
2	731221205023	MEGALATHANGAMANI M			
3	731221205039	SUNDHARESWARI V			
4	731221205041	SWETHA S			

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OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).



Internship

1 message

MON 19 Jun 2023 at 2.00pm

From: SANGEETHA <sangeetha@jkkmct.edu.in>

Date: MON 19 Jun 2023 at 2.00pm

Subject: Internship-reg

To: CODEBINDTECHNOLOGIES <info@codebindtechnologies.in>

Dear Sir,


I am requesting to be joining your **CODE BIND TECHNOLOGY**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **DINESH M, KARTHICKRAJA G, KOWSALYA G, MAVURIYA D, MOTHIR L, NANDHINI S, PANDEESWARAN C K, PARTHIBAN M, RATHNA R, RITHIK S, SUYAMBURAJ C**

Sincerely,

2 nd Year IT Student,
J K K Munirajah College of Technology,
T.N.Palayam, Erode-638506, Tamilnadu.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).



Internship

1 message

THUR 22 Jun 2023 at
3.30pm

From: CODEBINDTECHNOLOGIES<info@codebindtechnologies.in>

Date: THUR 22 Jun 2023 at 3.30pm

Subject: Internship-reg

To: SANGEETHA<sangeethap@jkkmct.edu.in>

Dear MADAM,


I am writing to confirm my acceptance of your internship offer of 10.07.2023 to 14.07.2023 and to tell you how to be joining my **CODE BIND TECHNOLOGY**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on JUN 23, 2023 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: **DINESH M, KARTHICKRAJA G, KOWSALYA G, MAVURIYA D, MOTHIR L, NANDHINI S, PANDEESWARAN C K, PARTHIBAN M, RATHNA R, RITHIK S, SUYAMBURAJ C**

Sincerely,

HR Manager,
CODE BIND TECHNOLOGY,
CHENNAI.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).

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🌐 www.codebindtechnologies.com
✉ info@codebindtechnologies.com

CERTIFICATE OF COMPLETION

CERTIFICATE NUMBER

CBTIPDM101103230708

This certificate is awarded to V. SUNDHARESWARI,
who has undergone Inplant Training in DIGITAL MARKETING,
from 10.07.2023 to 15.07.2023 at CodeBind Technologies,
Coimbatore. During the course of training period, the conduct of
the trainee was found to be Good.



Shy
Training Facilitator

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T.N. PALAYAM (Po)-638 506.

G. K. S.
Issuing Authority



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CERTIFICATE NUMBER :

CBTWDMI01103230708

CERTIFICATE OF PARTICIPATION

This certificate is awarded to Y. SUNDHARESWARI, for his/her active and invaluable contribution to the One Day Workshop on ANDROID held on 12.07.2023 at CodeBind Technologies, Coimbatore. During the Workshop period the performance of the trainee was found to be GOOD.

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 📍 Near Kalyan Jewellers.
 🏢 Head Office: T.Nagar, Chennai.
 📞 Branch Office : 📍 Coimbatore. 📍 Trichy.

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 Training Facilitator

G. R. R. R.
 Issuing Authority

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 🌐 www.codebindtechnologies.com
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CERTIFICATE NUMBER :



CBTADM101103220708

CERTIFICATE OF PARTICIPATION

This certificate is awarded to V. SUNDHARESWARI, has successfully Completed a "Corporate Training Test" based on Placement Aptitude Questions held on 12.07.2023 at CodeBind Technologies, Coimbatore. On receiving this Certificate, the candidate will be allowed to access the Online Placement training portal to enhance their aptitude skills. The portal can be accessed by login in to the website www.onlineplacementtraining.com.

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CERTIFICATE NUMBER :



CBTADMIN03230707

CERTIFICATE OF PARTICIPATION

This certificate is awarded to S. SWETHA, has successfully Completed a "Corporate Training Test" based on Placement Aptitude Questions held on 12.07.2023 at CodeBind Technologies, Coimbatore. On receiving this Certificate, the candidate will be allowed to access the Online Placement training portal to enhance their aptitude skills. The portal can be accessed by login in to the website www.onlineplacementtraining.com.

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CERTIFICATE OF COMPLETION

CERTIFICATE NUMBER

CBTIPDM101103230707

This certificate is awarded to S. SWETHA,

who has undergone Inplant Training in DIGITAL MARKETING,

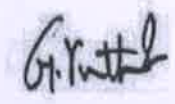
from 10.07.2023 to 15.07.2023 at CodeBind Technologies,

Coimbatore. During the course of training period, the conduct of

the trainee was found to be Good.




Training Facilitator


Issuing Authority

Head Office: T.Nagar, Chennai.

Branch Office: Coimbatore. Trichy.

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CERTIFICATE NUMBER :

CBTWDM101103230707

CERTIFICATE OF PARTICIPATION

This certificate is awarded to S.SWETHA, for his/her active

and invaluable contribution to the One Day Workshop on ANDROID

held on 12.07.2023 at CodeBind Technologies, Coimbatore. During the Workshop

period the performance of the trainee was found to be GOOD.

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Training Facilitator

G. R. S.
Issuing Authority

🏠 **Head Office:** T.Nagar, Chennai.
📞 **Branch Office :** 📍 Coimbatore. 📍 Trichy.

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CERTIFICATE NUMBER :



CBTABM101103230704

CERTIFICATE OF PARTICIPATION

This certificate is awarded to M.MEGALATHANGAMANI, has successfully Completed a "Corporate Training Test" based on Placement Aptitude Questions held on 12.07.2023 at CodeBind Technologies, Coimbatore. On receiving this Certificate, the candidate will be allowed to access the Online Placement training portal to enhance their aptitude skills. The portal can be accessed by login in to the website www.onlineplacementtraining.com.

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CERTIFICATE OF COMPLETION

CERTIFICATE NUMBER

CBTIPDM101103230709

This certificate is awarded to M. MEGALATHANGAMANI,
who has undergone Inplant Training in DIGITAL MARKETING,
from 10.07.2023 to 15.07.2023 at CodeBind Technologies,
Coimbatore. During the course of training period, the conduct of
the trainee was found to be Good.




Training Facilitator


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CERTIFICATE NUMBER:

CBTWDM101103230710

CERTIFICATE OF PARTICIPATION

This certificate is awarded to **S. DIVYA**, for his/her active

and invaluable contribution to the One Day Workshop on **ANDROID**

held on **12.07.2023** at Code Bind Technologies, Coimbatore. During the Workshop

period the performance of the trainee was found to be **GOOD**.

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CERTIFICATE NUMBER: CBTADM101103230710



CERTIFICATE OF PARTICIPATION

This certificate is awarded to S. DIVYA, has successfully Completed a "Corporate Training Test" based on Placement Aptitude Questions held on 12.07.2023 at CodeBind Technologies, Coimbatore. On receiving this Certificate, the candidate will be allowed to access the Online Placement training portal to enhance their aptitude skills. The portal can be accessed by login in to the website www.onlineplacementtraining.com.

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CERTIFICATE OF COMPLETION

CERTIFICATE NUMBER

CBTIPDM101103230710

This certificate is awarded to S. DIVYA,

who has undergone Inplant Training in DIGITAL MARKETING,

from 10.07.2023 to 15.07.2023 at CodeBind Technologies,

Coimbatore. During the course of training period, the conduct of

the trainee was found to be Good.





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Accredited by NAAC with "A" grade



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INTERNSHIP DETAILS 2022-23

SI.N O	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731221205016	MADHANKUMAR N	CODE BIND TECHNOLOGY	COIMBATORE	03.07.2023 to 07.07.2023
2	731221205019	MANIGANDAN M			
3	731221205021	MANOJKUMAR S			
4	731221205034	RAVIKUMAR M			
5	731221205036	ROHITH V			
6	731221205037	SHARANKUMAR M V			

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Internship

1 message

MON 29 Jun 2023 at 2.00pm

From: SANGEETHA <sangeethap@jkkmct.edu.in>

Date: MON 29 Jun 2023 at 2.00pm

Subject: Internship-reg

To: CODEBINDTECHNOLOGIES <info@codebindtechnologies.in>

Dear Sir,


I am requesting to be joining your **CODE BIND TECHNOLOGY**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **MADHANKUMAR N, MANIGANDAN M, MANOJKUMAR S, RAVIKUMAR M, ROHITH V, SHARANKUMAR M V**

Sincerely,

2 nd Year IT Student,
J K K Munirajah College of Technology,
T.N.Palayam, Erode-638506, Tamilnadu.


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Internship

1 message

THUR 01 July 2023 at 3.30pm

From: CODEBINDTECHNOLOGIES <info@codebindtechnologies.in>

Date: THUR 01 July 2023 at 3.30pm

Subject: Internship-reg

To: SANGEETHA <sangeethap@jkkmct.edu.in>

Dear MADAM,

I am writing to confirm my acceptance of your internship offer of 03.07.2023 to 07.07.2023 and to tell you how to be joining my **CODE BIND TECHNOLOGY**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on JULY 01, 2023 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: **MADHANKUMAR N, MANIGANDAN M, MANOJKUMAR S, RAVIKUMAR M, ROHITH V, SHARANKUMAR M V**

Sincerely,

HR Manager,
CODE BIND TECHNOLOGY,
COIMBATORE.


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GOBI (Tk), ERODE (Dt).

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Solution Without Compromise!

CERTIFICATE NUMBER : CBTAC081103230702



CERTIFICATE OF PARTICIPATION

This certificate is awarded to ROHIT V, has successfully Completed a "Corporate Training Test" based on Placement Aptitude Questions held on 05.07.2023 at CodeBind Technologies, Coimbatore. On receiving this Certificate, the candidate will be allowed to access the Online Placement training portal to enhance their aptitude skills. The portal can be accessed by login in to the website www.onlineplacementtraining.com.

[Signature]

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ERODE (Dt).

[Signature]
Issuing Authority

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www.codebindtechnologies.com



Head Office: Chennai. Branch : Coimbatore. Trichy.

info@codebindtechnologies.com



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CERTIFICATE NUMBER :

CBTWC031103230702

CERTIFICATE OF PARTICIPATION

This certificate is awarded to ROHIT V, for his/her active and invaluable contribution to the One Day Workshop on ANDROID held on 05.07.2023 at Code Bind Technologies, Coimbatore. During the Workshop period the performance of the trainee was found to be Good.

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📍 Near Kalyan Jewellers.

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📍 Branch Office : 📍 Coimbatore. 📍 Trichy.

S. Kalini
 Training Facilitator

Sly
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CERTIFICATE OF COMPLETION

CERTIFICATE NUMBER

CBTIPC031103230701

This certificate is awarded to SHARAN KUMAR M.V,

who has undergone Inplant Training in DIGITAL MARKETING,

from 03.07.2023 to 07.07.2023 at CodeBind Technologies,

Coimbatore. During the course of training period, the conduct of

the trainee was found to be Good.



B. Lakshmi
Training Facilitator

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Branch Office: Coimbatore, Trichy.

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CERTIFICATE NUMBER :

CBTWC031103230701

CERTIFICATE OF PARTICIPATION

This certificate is awarded to SHARAN KUMAR M.V *, for his/her active*

and invaluable contribution to the One Day Workshop on ANDROID

held on 05.07.2023 *at Code Bind Technologies, Coimbatore. During the Workshop*

period the performance of the trainee was found to be GOOD.

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S. Kalif
 Training Facilitator

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📍 Branch Office : 📍 Coimbatore. 📍 Trichy.

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🌐 www.codebindtechnologies.com

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CERTIFICATE NUMBER:



CBTAC081103230701

CERTIFICATE OF PARTICIPATION

This certificate is awarded to SHARAN KUMAR M.V, has successfully Completed a "Corporate Training Test" based on Placement Aptitude Questions held on 05.07.2023 at CodeBind Technologies, Coimbatore. On receiving this Certificate, the candidate will be allowed to access the Online Placement training portal to enhance their aptitude skills. The portal can be accessed by login in to the website www.onlineplacementtraining.com.

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CERTIFICATE OF COMPLETION

CERTIFICATE NUMBER

CBTIPC031103230702

This certificate is awarded to ROHIT - V,
who has undergone Inplant Training in DIGITAL MARKETING,
from 03.07.2023 to 07.07.2023 at CodeBind Technologies,
Coimbatore. During the course of training period, the conduct of
the trainee was found to be Good.



Q. Kalish
Training Facilitator

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CERTIFICATE NUMBER



CBTAC031103230704

CERTIFICATE OF PARTICIPATION

This certificate is awarded to MANIGANDAN .M, has successfully Completed a "Corporate Training Test" based on Placement Aptitude Questions held on 05.01.2023 at CodeBind Technologies, Coimbatore. On receiving this Certificate, the candidate will be allowed to access the Online Placement training portal to enhance their aptitude skills. The portal can be accessed by login in to the website www.onlineplacementtraining.com.

[Signature]

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CERTIFICATE OF COMPLETION

CERTIFICATE NUMBER **CBTIPC031103230704**

This certificate is awarded to MANIGANDAN .M,

who has undergone **Inplant** Training in DIGITAL MARKETING,

from 03.07.2023 to 07.07.2023 at CodeBind Technologies,

Coimbatore. During the course of training period, the conduct of

the trainee was found to be Good.



B. Kalish
Training Facilitator

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CERTIFICATE NUMBER :

CERTIFICATE OF PARTICIPATION

CBTWCO31103230705

This certificate is awarded to MANOJ KUMAR S, for his/her active

and invaluable contribution to the One Day Workshop on ANDROID

held on 05.07.2023 at Code Bind Technologies, Coimbatore. During the Workshop

period the performance of the trainee was found to be Good.

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S. Kalini
Training Facilitator

Shy
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📞 Branch Office : 📍 Coimbatore. 📍 Trichy.

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CERTIFICATE NUMBER



CBTAC031103230705

CERTIFICATE OF PARTICIPATION

This certificate is awarded to MANOJ KUMAR . S, has successfully Completed a "Corporate Training Test" based on Placement Aptitude Questions held on 05.07.2023 at CodeBind Technologies, Coimbatore. On receiving this Certificate, the candidate will be allowed to access the Online Placement training portal to enhance their aptitude skills. The portal can be accessed by login in to the website www.onlineplacementtraining.com.

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CERTIFICATE OF COMPLETION

CERTIFICATE NUMBER

CBTIPC031103230705

This certificate is awarded to MANOJ KUMAR .S,
who has undergone Inplant Training in DIGITAL MARKETING,
from 03.07.2023 to 07.07.2023 at CodeBind Technologies,
Coimbatore. During the course of training period, the conduct of
the trainee was found to be Good.



S. Lalitha
Training Facilitator

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CERTIFICATE NUMBER :

CBTNC031103230706

CERTIFICATE OF PARTICIPATION

This certificate is awarded to MADHAN KUMAR . N , for his/her active

and invaluable contribution to the One Day Workshop on ANDROID

held on 05 . 07 . 2023 at Code Bind Technologies, Coimbatore. During the Workshop

period the performance of the trainee was found to be GOOD .

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📍 Near Kalyan Jewellers.

S. Lalith
Training Facilitator

S. Lalith
Issuing Authority

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📍 Branch Office : 📍 Coimbatore. 📍 Trichy.

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CERTIFICATE OF COMPLETION

CERTIFICATE NUMBER

CBTIPC031103230706

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Coimbatore. During the course of training period, the conduct of

the trainee was found to be Good.



B. Laliy
Training Facilitator

[Signature]
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JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY

[Signature]
Issuing Authority

Head Office: T.Nagar, Chennai.

Branch Office: Coimbatore. Trichy.

044 - 4330 4239

<codebind/>TM

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CERTIFICATE NUMBER

CERTIFICATE OF PARTICIPATION

CBTWCO31103230704

This certificate is awarded to MANIGANDAN . M for his/her active

and invaluable contribution to the One Day Workshop on ANDROID

held on 05 . 07 . 2023 at CodeBind Technologies, Coimbatore. During the Workshop

period the performance of the trainee was found to be Good.

106, 6th Street Ext, 100 feet Road, Gandhipuram, Coimbatore

Near Kalyan Jewellers.

S. Hanif
Training Facilitator

Shy
Issuing Authority

Head Office: T.Nagar, Chennai.

Branch Office : Coimbatore. Trichy.

info@codebindtechnologies.com

www.codebindtechnologies.com

0422-4357 564 +91 975 11 11 343



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OF TECHNOLOGY

T.N. PALKAR PO)-638 506.
COIMBATORE (D).

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{Technologies}

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CERTIFICATE NUMBER:



CBTAC031103230703

CERTIFICATE OF PARTICIPATION

This certificate is awarded to RAVI KUMAR .M, has successfully Completed a "Corporate Training Test" based on Placement Aptitude Questions held on 05.07.2023 at CodeBind Technologies, Coimbatore. On receiving this Certificate, the candidate will be allowed to access the Online Placement training portal to enhance their aptitude skills. The portal can be accessed by login in to the website www.onlineplacementtraining.com.

🏠 406, 6th Street Ext, 100 feet Road, Gandhipuram, Coimbatore.

📍 Near Kalyan Jewellers.

☎ 0422-4357 564 📞 +91 975 11 11 343

🌐 www.codebindtechnologies.com



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COIMBATORE (TK), ERODE (Dt).

Shree
Issuing Authority

Head Office: Chennai. Branch: Coimbatore. Trichy.

mfe@codebindtechnologies.com

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Near Kalyan Jewellers.

+91 975 11 11 343, 975 11 11 346

www.codebindtechnologies.com

info@codebindtechnologies.com

CERTIFICATE OF COMPLETION

CERTIFICATE NUMBER

CBTIPC031103230703

This certificate is awarded to RAVI KUMAR .M,

who has undergone Inplant Training in DIGITAL MARKETING,

from 03.07.2023 to 07.07.2023 at CodeBind Technologies,

Coimbatore. During the course of training period, the conduct of

the trainee was found to be Good.



S. Kalief
Training Facilitator

Seen

PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY

Shy
Issuing Authority

<codeb!nd/>TM

{Technologies}

Solution Without Compromise!



CERTIFICATE NUMBER:

CBTWC031103230703

CERTIFICATE OF PARTICIPATION

This certificate is awarded to RAVI KUMAR .M, for his/her active

and invaluable contribution to the One Day Workshop on ANDROID

held on 05.07.2023 at Code Bind Technologies, Coimbatore. During the Workshop

period the performance of the trainee was found to be GOOD.

🏠 106, 6th Street Ext, 100 feet Road, Gandhipuram, Coimbatore

📍 Near Kalyan Jewellers.

S. Lalith
Training Facilitator

Shiny
Issuing Authority

🏠 Head Office: T.Nagar, Chennai.

📍 Branch Office: 📍 Coimbatore. 📍 Trichy.

✉ info@codebindtechnologies.com

🌐 www.codebindtechnologies.com

☎ 0422-4357 564 📞 +91 975 11 11 343



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OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
ERODE (Dt).

J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

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Accredited by NAAC with "A" grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



INTERNSHIP DETAILS 2022-23

SI.NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731221205027	MOUNASAKTHI G	DURGA TECH	ERODE	21.07.2023 to 25.07.2023

PRINCIPAL

**JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).**



Internship

1 message

MON 10 July 2023 at 2.00pm

From: SANGEETHA <sangeethap@jkkmct.edu.in>

Date: MON 10 July 2023 at 2.00pm

Subject: Internship-reg

To: DURGATECH <info.durgaotech@gmail.com>

Dear Sir,

I am requesting to be joining your **DURGA TECH**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the student name is:

Sincerely,

2 nd Year IT Student,

J K K Munirajah College of Technology,

T.N.Palayam, Erode-638506, Tamilnadu.

PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).



Internship

1 message

THUR 13 July 2023 at 3.30pm

From: DURGATECH <info.durgaotech@gmail.com>

Date: THUR 13 July 2023 at 3.30pm

Subject: Internship-reg

To: SANGEETHA <sangeethap@jkkmct.edu.in>

Dear MADAM,


I am writing to confirm my acceptance of your internship offer of 21.07.2023 to 25.07.2023 and to tell you how to be joining my **DURGA TECH**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on JULY 17, 2023 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: **DEVIKA A, DHARSHINI P**

Sincerely,

HR Manager,
DURGA TECH,
Erode.


PRINCIPAL
KK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).

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Since 2009



Durga Tech[®]
Research & Development

Date: 15.07.2023

This is to certify that G. MOUNASATHI Reg.No: 731221205027 in B-TECH [IT] ¹⁹
year student of T.K.K. MUNTRAJAH COLLEGE OF TECHNOLOGY, T.N. PALAYAM has completed the
Internship/In-plant Training under the WEB DEVELOPMENT in Durga Tech from 10.7.23 to 15.7.23

During this Internship/In-plant Training G. MOUNASATHI found to be highly sincere, committed, hard working, progressive and professional towards her/his work and is capable of discharging her/his duties in a similar capacity and her/his conduct was found to be good during her/his period of Internship/In-plant Training.

We wish G. MOUNASATHI success in her/his future endeavors in her/his career.

www.durgatech.org
info.durgatech@gmail.com

Thanking You

PRINCIPAL
JKK MUNTRAJAH COLLEGE
OF TECHNOLOGY
PALAYAM (Po)-638 506.
T.K., ERODE (Dt).

Regards



78D, Sri Murugan Complex,
Nachiappa 1st Street,
Near Bus Stand, Erode - 638001
Ph: 73737 16107

000

J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY



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Accredited by NAAC with "A" grade



T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

INTERNSHIP DETAILS 2022-23

SI.NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731221205003	BHUVANESWARAN M	ETHER INFO TECH	COIMBATORE	10.07.2023 to 14.07.2023
2	731221205004	BOOPATHI C			
3	731221205008	DHAYALAN R			
4	731221205029	NAVEEN S			

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T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).



Internship

1 message

MON 3 July 2023 at 2.00pm

From: SANGEETHA <sangeethap@jkkmct.edu.in>

Date: MON 3 July 2023 at 2.00pm

Subject: Internship-reg

To: ETHERINFOTECH <hr.etherinfotech@gmail.com>

Dear Sir,


I am requesting to be joining your **ETHER INFO TECH**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **BHUVANESWARAN M, BOOPATHI C, DHAYALAN R, NAVEEN S**

Sincerely,

2 nd Year IT Student,
J K K Munirajah College of Technology,
T.N.Palayam, Erode-638506, Tamilnadu.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638506.
GOBI (TK), ERODE (DT).



Internship
1 message

THUR 6 July 2023 at 3.30pm

From: ETHER INFO TECH <hr.etherinfotech@gmail.com >

Date: THUR 6 July 2023 at 3.30pm

Subject: **Internship-reg**

To: SANGEETHA <sangeethap@jkkmct.edu.in>

Dear MADAM,

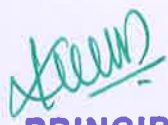
I am writing to confirm my acceptance of your **internship** offer of **10.07.2023 to 14.07.2023** and to tell you how to be joining my **ETHER INFO TECH**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on JULY 7, 2023 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: **BHUVANESWARAN M, BOOPATHI C, DHAYALAN R, NAVEEN S**

Sincerely,

HR Manager,
ETHER INFO TECH,
Erode.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506,
GOBI (TK), ERODE (Dt).




Date: 14/07/2023


INTERNSHIP CERTIFICATE

This is to inform that **Mr. DHAYALAN. R, B.TECH - INFORMATION TECHNOLOGY**, student of **J K K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N. PALAYAM, ERODE**, has attended **Internship training** in our organization from **July 10th 2023 to July 14th 2023.**

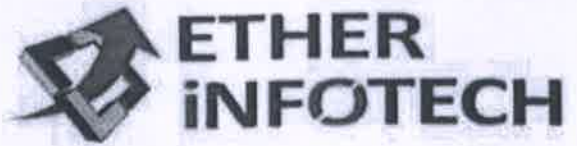
During this **Internship** training, he has learned the overview concepts of **WEB DESIGN.**

Thanking You.

For Ether Infotech

Authorised Signatory


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).





Date: 14/07/2023


INTERNSHIP CERTIFICATE

This is to inform that Mr. **BHUVANESWARAN. M, B.TECH - INFORMATION TECHNOLOGY**, student of **J K K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N. PALAYAM, ERODE**, has attended **Internship training** in our organization from **July 10th 2023 to July 14th 2023**.

During this **Internship training**, he has learned the overview concepts of **WEB DESIGN**.

Thanking You.

For Ether Infotech


Authorised Signatory


PRINCIPAL

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OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).**

35/4, 2nd Floor, Arputham Towers, Desabandhu Street, Ram Nagar, Coimbatore - 641009

W: www.etherinfotech.com | E: prasanth@etherinfotech.com

T: 0422 - 3511420 | M: 95002 95905 • 82205 71905





Date: 14/07/2023

INTERNSHIP CERTIFICATE

This is to inform that Mr. **BOOPATHI. C, B.TECH - INFORMATION TECHNOLOGY**, student of **J K K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N. PALAYAM, ERODE**, has attended **Internship** training in our organization from **July 10th 2023 to July 14th 2023**.

During this **Internship** training, he has learned the overview concepts of **WEB DESIGN**.

Thanking You.

For Ether Infotech

Authorised Signatory

PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
ERODE (Dt).

35/4, 2nd Floor, Arputham Towers, Desabandhu Street, Ram Nagar, Coimbatore - 641009

W: www.etherinfotech.com | E: prasanth@etherinfotech.com

T: 0422 - 3511420 | M: 95002 95905 • 82205 71905





Date: 14/07/2023

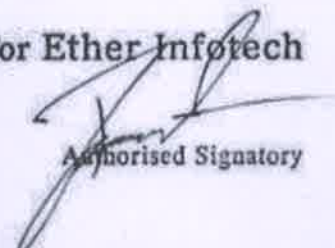
INTERNSHIP CERTIFICATE

This is to inform that Mr. NAVEEN. S, B.TECH - INFORMATION TECHNOLOGY, student of J K K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N. PALAYAM, ERODE, has attended Internship training in our organization from July 10th 2023 to July 14th 2023.

During this Internship training, he has learned the overview concepts of WEB DESIGN.

Thanking You.

For Ether Infotech


Authorised Signatory



PRINCIPAL

**JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY**

**T.N. PALAYAM (Po)-638 506,
GOBI (TK), ERODE (Dt).**



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Accredited by NAAC with "A" grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



INTERNSHIP DETAILS 2022-23

SI.NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731221205012	KAVIBHARATHI G	ETHER INFO TECH	COIMBATORE	04.07.2023 to 18.07.2023


PRINCIPAL
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GOBI (TK), ERODE (Dt).



Internship

1 message

MON 26 Jun 2023 at 2.00pm

From: SANGEETHA <sangeethap@jkkmct.edu.in>

Date: MON 26 Jun 2023 at 2.00pm

Subject: **Internship-reg**

To: ETHERINFOTECH <hr.etherinfotech@gmail.com>

Dear Sir,

I am requesting to be joining your **ETHER INFO TECH**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the student name: **KAVIBHARATHI G**

Sincerely,

2 nd Year IT Student,

J K K Munirajah College of Technology,

T.N.Palayam, Erode-638506, Tamilnadu.

PRINCIPAL
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OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).



Internship

1 message

THUR 29 Jun 2023 at 3.30pm

From: ETHER INFO TECH <hr.etherinfotech@gmail.com >

Date: THUR 29 Jun 2023 at 3.30pm

Subject: **Internship-reg**

To: SANGEETHA <sangeethap@jkkmct.edu.in>

Dear MADAM,


I am writing to confirm my acceptance of your **internship offer of 04.07.2023 to 18.07.2023** and to tell you how to be joining my **ETHER INFO TECH**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on JUN 30, 2023 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the student name: **KAVIBHARATHI G**

Sincerely,

HR Manager,
ETHER INFO TECH,
Erode.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 508.
GOBI (Tk), ERODE (Dt).



Date: 18/07/2023

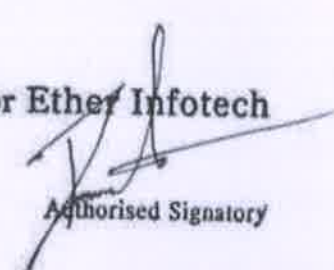
INTERNSHIP CERTIFICATE

This is to inform that Ms. **KAVIBHARATHI .G**, 2nd year, B.TECH – INFORMATION TECHNOLOGY, student of JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, ERODE, has attended **Internship training** in our organization from July 04th 2023 to July 18th 2023.

During this **Internship training**, she has learned the overview concepts of **PYTHON**.

Thanking You.

For Ether Infotech


Authorized Signatory



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JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N, PALAYAM (Po)-638 506,
GOBI (TK), ERODE (Dt).

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T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

INTERNSHIP DETAILS 2022-23

SI.NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731221205015	KRISHNAN S	ETHER INFO TECH	COIMBATORE	19.06.2023 to 23.06.2023


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).



Internship

1 message

MON 12 Jun 2023 at 2.00pm

From: SANGEETHA <sangeethap@jkkmct.edu.in>

Date: MON 12 Jun 2023 at 2.00pm

Subject: **Internship-reg**

To: ETHERINFOTECH <hr.etherinfotech@gmail.com>

Dear Sir,

I am requesting to be joining your **ETHER INFO TECH**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the student name: **KRISHNAN S**

Sincerely,

2 nd Year IT Student,

J K K Munirajah College of Technology,

T.N.Palayam, Erode-638506, Tamilnadu.

PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).



Internship

1 message

THUR 14 Jun 2023 at 3.30pm

From: ETHER INFO TECH <hr.etherinfotech@gmail.com >

Date: THUR 14 Jun 2023 at 3.30pm

Subject: Internship-reg

To: SANGEETHA <sangeethap@jkkmct.edu.in>

Dear MADAM,


I am writing to confirm my acceptance of your internship offer of 19.06.2023 to 23.06.2023 and to tell you how to be joining my **ETHER INFO TECH**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on JUN 15, 2023 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the student name: **KRISHNAN S**

Sincerely,

HR Manager,
ETHER INFO TECH,
Erode.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).



Date: 23/06/2023

INTERNSHIP CERTIFICATE


This is to inform that Mr. KRISHNAN .S, 02nd year, B.TECH-INFORMATION TECHNOLOGY, student of J.K.K MUNIRAJAH COLLEGE OF TECHNOLOGY, GOBI, has attended Internship training in our organization from June 19th 2023 to June 23rd 2023.

During this Internship training, he has learned the overview concepts of PYTHON.

Thanking You.

For Ether Infotech

Authorised Signatory


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506
GOBI (Tk), ERODE (Dt).

35/4, 2nd Floor, Arputham Towers, Desabandhu Street, Ram Nagar, Coimbatore - 641009

W: www.etherinfotech.com | T: 0422 - 3511420 | M: 95002 95905 | E: info@etherinfotech.com

J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

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Accredited by NAAC with "A" grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



INTERNSHIP DETAILS 2022-23

SL.NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731221205005	DEVIKA A	ETHER INFO TECH	COIMBATORE	06.07.2023
2	731221205007	DHARSHINI P			to 12.07.2023


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
Gobi (Tk), Erode (Dt).



Internship

1 message

MON 29 Jun 2023 at 2.00pm

From: SANGEETHA <sangeethap@jkkmct.edu.in>

Date: MON 29 Jun 2023 at 2.00pm

Subject: Internship-reg

To: ETHERINFOTECH <hr.etherinfotech@gmail.com>

Dear Sir,


I am requesting to be joining your **ETHER INFO TECH**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **DEVIKA A, DHARSHINI P**

Sincerely,

2 nd Year IT Student,
J K K Munirajah College of Technology,
T.N.Palayam, Erode-638506, Tamilnadu.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).



Internship

1 message

THUR 1 July 2023 at 3.30pm

From: ETHER INFO TECH <hr.etherinfotech@gmail.com >

Date: THUR 1 July 2023 at 3.30pm

Subject: Internship-reg

To: SANGEETHA <sangeethap@jkkmct.edu.in>

Dear MADAM,


I am writing to confirm my acceptance of your internship offer of 06.07.2023 to 12.07.2023 and to tell you how to be joining my **ETHER INFO TECH**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on JULY 2, 2023 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: **DEVIKA A, DHARSHINI P**

Sincerely,

HR Manager,
ETHER INFO TECH,
Erode.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T. S. S. ROAD, ERODE - 638 506.
GURUKULAM, ERODE, TAMIL NADU, INDIA



Date: 12/07/2023

INTERNSHIP CERTIFICATE


This is to inform that Ms. **DEVIKA .A, B.TECH – INFORMATION TECHNOLOGY**, student of **JKKM COLLEGE OF TECHNOLOGY, ERODE**, has attended **Internship training** in our organization from **July 06th 2023 to July 12th 2023**.

During this **Internship training**, she has learned the overview concepts of **PYTHON**.

Thanking You.

For Ether Infotech

Authorised Signatory


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506,
GOBLET, ERODE (DI).





Date: 15/07/2023

INTERNSHIP CERTIFICATE


This is to inform that Ms. **DHARSHINI .P, B.TECH - INFORMATION TECHNOLOGY**, student of **JKKM COLLEGE OF TECHNOLOGY, T.N. PALAYAM, ERODE**, has attended **Internship training** in our organization from **July 10th 2023 to July 15th 2023**.

During this **Internship training**, she has learned the overview concepts of **PYTHON**.

Thanking You.

For Ether Infotech


Authorized Signatory


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (PO)-638 506.
GOBI (TK), ERODE (Dt).



J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY



Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.


Accredited by NAAC with "A" grade



T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506

INTERNSHIP DETAILS 2022-23

SI.NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731221205017	MAHADEVAMMA S	THRIVE INFO TECH	THENI	10.07.2023 to 15.07.2023
2	731221205020	MANILA K			
3	731221205301	AHALYA J C			


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T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).



Internship

1 message

MON 3 July 2023 at 2.00pm

From: SANGEETHA <sangeethap@jkkmct.edu.in>

Date: MON 3 July 2023 at 2.00pm

Subject: Internship-reg

To: THRIVEINFOTECH <hr.thriveinfotech@gmail.com>

Dear Sir,


I am requesting to be joining your **THRIVE INFO TECH**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **MAHADEVAMMA S, MANILA K, AHALYA J C**

Sincerely,

2 nd Year IT Student,
J K K Munirajah College of Technology,
T.N.Palayam, Erode-638506, Tamilnadu.


PRINCIPAL
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OF TECHNOLOGY
T.N. PALAYAM (ERODE)-638 506.
GOBI (TN), ERODE (ER)



Internship

1 message

THUR 6 July 2023 at 3.30pm

From: THRIVE INFO TECH <hr.thriveinfotech@gmail.com >

Date: THUR 6 July 2023 at 3.30pm

Subject: **Internship-reg**

To: SANGEETHA <sangeethap@jkkmct.edu.in>

Dear MADAM,

I am writing to confirm my acceptance of your **internship** offer of **10.07.2023 to 15.07.2023** and to tell you how to be joining my **THRIVE INFO TECH**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on JULY 7, 2023 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.


Refer the following students: **MAHADEVAMMA S, MANILA K, AHALYA J C**

Sincerely,

HR Manager,

THRIVE INFO TECH,

Erode.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (Dt).



Thrive InfoTech
TRAINING DEVELOPMENT HR OUTSOURCING



+91 9384353564



Info@thriveinfotech.com



www.thriveinfotech.com

Date: 15.07.2023

CERTIFICATE OF COMPLETION

This is to certify that Ms. Mahadevamma.S (Reg No. : 731221205017) has completed **INTERNSHIP** successfully from 10.07.2023 to 15.07.2023 in our organization.


During this period He/She had undergone training on **INTRODUCTION TO DIGITAL MARKETING & IT'S STRATEGIES** and had shown an exemplary attitude and approach.

Approved by


Rajkumar Thangamani
Managing Director



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GOBI (Tk), ERODE (Dt).

 **Thrive InfoTech**
265, Ramesh Murugan Complex,
Ground Floor, Subban Street,
Theni - 625531

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Info@thriveinfotech.com



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Date: 15.07.2023

CERTIFICATE OF COMPLETION

This is to certify that Ms. Manila.K (Reg No. : 731221205020) has completed INTERNSHIP successfully from 10.07.2023 to 15.07.2023 in our organization.

During this period He/She had undergone training on INTRODUCTION TO DIGITAL MARKETING & IT'S STRATEGIES and had shown an exemplary attitude and approach.

Approved by



Rajkumar Thangamani
Managing Director



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www.thriveinfotech.com

Date: 15.07.2023

CERTIFICATE OF COMPLETION

This is to certify that **Ms. Ahalya.JC (Reg No. : 731221205301)** has completed **INTERNSHIP** successfully from **10.07.2023 to 15.07.2023** in our organization.

During this period He/She had undergone training on **INTRODUCTION TO DIGITAL MARKETING & IT'S STRATEGIES** and had shown an exemplary attitude and approach.

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COBI (TK), ERODE (Dt).

Approved by

Rajkumar Thangamani
Managing Director.

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