



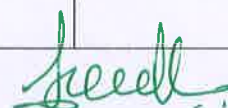
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**INFORMATION TECHNOLOGY**

**2021-2022**

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4	731218205004	JOTHIKA C	✓		
5	731218205005	KARVANNAN K	✓	✓	
6	731218205007	MAHESHWARI B	✓		
7	731218205009	MEENA N	✓		
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9	731218205012	PRABHAKARAN S	✓	✓	
10	731218205013	PRASANTH K	✓	✓	
11	731218205014	PRASANTH M	✓	✓	
12	731218205016	RAGAVAN R	✓		
13	731218205017	RAJAMANICKAM G	✓		
14	731218205019	RANJITHA S	✓	✓	
15	731218205020	REKA N	✓		
16	731218205023	SANMUGAPRIYA R	✓		
17	731218205025	SIVASHANKAR G	✓		
18	731218205026	SOWNDARYA A	✓	✓	

  
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50	731220205021	SHIJIN KUMAR.K.G		✓	
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### PROJECT BATCH LIST (2021-2022)

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4	731218205002	GOBINATH.M	ARDUINO BASED SPY ROBOT USING WIRELESS CAMERA	Mr.E.ARUNMAHARAJA
5	731218205017	RAJAMANICKAM.G		
6	731218205028	SURYA.M		
7	731218205003	JAYAKUMAR.M	FOREST FIRE PREDICTION USING NODEMCU	Dr.N.SATHYABALAJI
8	731218205025	SIVASHANKAR.G		
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11	731218205005	KARVANNAN.K	IOT BASED AGRICULTURE MONITORING AND CONTROLLING SYSTEM USING ARDUINO UNO	Dr.N.SATHYABALAJI
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16	731218205012	PRABHAKARAN.S	MACHINE LEARNING BASED MODEL FOR CROP YIELD PREDICTION	Dr.N.SATHYABALAJI
17	731218205014	PRASANTH.M		
18	731218205019	RANJITHA.R	IOT BASED SMART WASTE MANAGEMENT USING NODEMCU ESP8266	Mrs.D.NIVETHINI
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**MULTIPLE OBJECT DETECTION FOR  
BLIND PEOPLE USING DEEP  
LEARNING**



**PROJECT REPORT**

*A submitted by*

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**R.RAGAVAN** (731218205016)  
**K.VASANTHAKUMAR** (731218205029)

*In partial fulfilment for the award of the degree*

*of*

**BACHELOR OF TECHNOLOGY**

**in**

**INFORMATION TECHNOLOGY**

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**BONAFIDE CERTIFICATE**

Certified that this project report on **"MULTIPLE OBJECT DETECTION FOR BLIND PEOPLE USING DEEP LEARNING"** is the confide work Of **"K.CHANDRU (731218205001), R.RAGAVAN (731218205016) and K.VASANTHAKUMAR (73218205029)"** Who carried out the project work under my supervision



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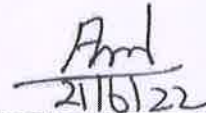
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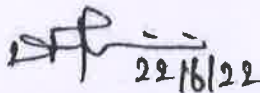
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## ABSTRACT

The object characteristics analysis using image processing techniques for automated vision system used at agricultural field. In agriculture research of automatic object characteristics detection is essential one in monitoring large fields of crops, and thus automatically detects symptoms of object characteristics as soon as they appear on plant leaves. The proposed decision making system utilizes image content characterization and supervised classifier type of neural network. Image processing techniques for this kind of decision analysis involves pre-processing, feature extraction and classification stage. At Processing, an input image will be resized and region of interest selection performed if needed. Here, colour and texture features are extracted from an input for network training and classification. Colour features like mean, standard deviation of HSV colour space and texture features like energy, contrast, homogeneity and correlation. The system will be used to classify the test images automatically to decide object characteristics. For this approach, automatic classifier NN be used for classification based on learning with some training samples of that some category. This network uses tangent sigmoid function as kernel function. Finally, the simulated result shows that used network classifier provides minimum error during training and better accuracy in classification.



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## CHAPTER 1

### INTRODUCTION

#### 1.1. INTRODUCTION TO OBJECT DETECTION

Object Detection is the process of finding and recognizing real-world object instances such as car, bike, TV, flowers, and humans out of an images or videos. An object detection technique lets you understand the details of an image or a video as it allows for the recognition, localization, and detection of multiple objects within an image.

It is usually utilized in applications like image retrieval, security, surveillance, and advanced driver assistance systems (ADAS).Object Detection is done through many ways:

- Feature Based Object Detection
- Viola Jones Object Detection
- SVM Classifications with HOG Features
- Deep Learning Object Detection

Object detection from a video in video surveillance applications is the major task these days. Object detection technique is used to identify required objects in video sequences and to cluster pixels of these objects.

The detection of an object in video sequence plays a major role in several applications specifically as video surveillance applications. Object detection in a video stream can be done by processes like pre-processing, segmentation, foreground and background extraction, feature extraction. Humans can easily detect and identify objects present in an image.



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## CONCLUSION AND FUTURE ENCHANCEMENT

### 7.1 CONCLUSION

We have applied and planned to utilize the YOLO algorithm for object recognition because of its favourable circumstances. This algorithmic program is existent in different fields to tackle some real-life problems like security, checking roadways or in any event, serving externally debilitated individuals with facilitate of input. In this, we have made a model for different variety of objects. This is used in period areas that need object detection for pre-processing in that. A scope would be to educate the system on a video sequence for usage in the following the inclusion of a short-lived constant interface would facilitate sleek detection and additional best than per-frame detection. Object detection is considered as a fundamental step in deploying self-riding automobiles and robotics.

### 7.2 FUTURE ENCHANCEMENT

The autonomous driving of construction vehicles is a topic on which there has been very little research. There is a significant difference between autonomous driving of construction vehicles on the job site and automated driving of conventional vehicles on the road; as the environment changes, elements that affect autonomous driving will change as well, making it particularly difficult. As a result, future work on developing autonomous vehicles using the data collected from this research can be done at the scaled construction site at PDRL laboratory, BTH. When it comes to future use cases for object detection, the possibilities are unlimited. Recognition of vehicle plates, self-driving automobiles, object tracking, face recognition, medical imaging, object counting, object extraction from an image or video, and human identification of YOLO algorithm.



**ARDUINO BASED GRASS CUTTER**  
**FULLY AUTOMATED**



**A PROJECT REPORT**

*Submitted by*

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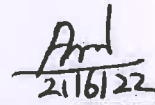
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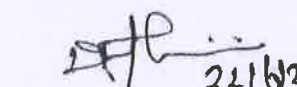
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## **ABSTRACT**

This grass cutter is a fully automated grass cutting robotic vehicle that also avoids obstacles and is capable of fully automated grass cutting without the need for any human interaction. The system used 9V batteries to power the vehicle movement motors as well as the grass cutter motor. The grass cutter and vehicle motors are interfaced to an Arduino family microcontroller that controls the working of all the motors. Here we have interfaced an ultrasonic sensor for object detection. The microcontroller moves the vehicle motors in forwarding direction in case no obstacle is detected. On obstacle detection the ultrasonic sensor monitors it and the microcontroller thus stops the grass cutter motor to avoid any damage to the object\human/animal whatever it is. The microcontroller then turns the robotic as long as it gets clear of the object and then moves the grass cutter in forwarding direction again.

  
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# CHAPTER 1

## INTRODUCTION

This project provides the designing steps for automated grass cutter, whose aim is to cut the grass of the specified area which is specified to the device without any human interaction. The output is achieved by using the sensors and various components. The ultimate goal of this device is to create a similar device as traditional grass cutter with better efficiency and of low cost.

### 1.1 SCOPE OF THE PROJECT

This project provides the designing steps for automated grass cutter, whose aim is to cut the grass of the specified area which is specified to the device without any human interaction. The output is achieved by using the sensors and various components. The ultimate goal of this device is to create a similar device as traditional grass cutter with better efficiency and of low cost.

### 1.2 DOMAIN OVERVIEW

#### 1.2.1 OVERVIEW OF EMBEDDED SYSTEMS

An embedded system is a special-purpose computer system designed to perform one or a few dedicated functions, often with real-time computing constraints. It is usually embedded as part of a complete device including hardware and mechanical parts. In contrast, a general-purpose computer, such as a personal computer, can do many different tasks depending on programming. Embedded systems have become very important today as they control many of the common devices we use.

  
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## CHAPTER 5

### CONCLUSION AND FUTURE WORK

#### 5.1 CONCLUSION

This project entitled Manufacturing of Arduino based grass cutter successfully completed and the results obtained are satisfactory. It will be easier for the people who are going to take the project for the further modifications. This project is more suitable for a common man as it is having much more advantages no fuel cost, no pollution and no fuel residue, less wear and tear because of less number of moving components and this can be operated by using Battery. This will give much more physical exercise to the people and can be easily handled. So it is much more suitable for grass cutting also. This efficiency can be increased by using some other mechanism. and speed of motor is reduce because we have used heavy material and this material can be replaced by using light weight material and design of blades should be done based on types of grass is used to cut. The project which we have done surely reaches the average families because the grass can be trimmed with minimum cost and with minimum time Finally this project may give an inspiration to the people who can modify and can obtain better result.



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## 5.2 FUTURE WORK

Fully automated Arduino based grass cutter cuts grass efficiently based on the technique implemented although some improvements can be done in future. so that the grass cutter will become more flexible. In the current situation the robot is able to do its objective with 100% success features can be added with the conventional components. The precision of grass cutting can be improved and the precision of edges of area to be operated can be also improved. Automatic blade changing functions can also be added and also function to set the size of grass to be cutter can be added.



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**FOREST FIRE DETECTION USING  
NODEMCU WITH IOT**



**A PROJECT REPORT**

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*of*

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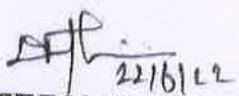
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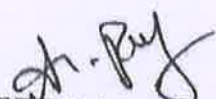
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## ABSTRACT

Forest fire is getting worse for all these days which can be detected and predicted using NodeMCU based on IoT. In this project, DTH11 is interfaced to NodeMCU detects the temperature and humidity produced from the fire. Soil moisture sensor senses moisture level in soil. LDR senses light intensity. Accelerometer senses position of our kit. Ultrasonic sensor detects distance and object interfaces where we place our kit The values are taken from the Sensor and is uploaded to the cloud i.e. in Thingspeak. In the advancing world, it is very crucial to protect our environment. Many incidents of man-made and natural disasters are occurring around the world. Forest fires are one such catastrophe for environment. Once the fire inside the deep forest starts, it burns and destroys the complete forest region. Such disasters should be curbed. The objective of this work is to design and implement an IoT based system which is self-sustaining and would predict and detect the forest fires and send the exact location to concerned officials which would help fire fighting personals to extinguish the fire n the location when it is in its initial stages. The developed system uses different oT sensors to communicate and transmit data.

Keywords: WSN, ESP8266, Things Speak, Forest fire, DHT11 Sensor, ARDUINO, Raspberry Pi.



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## CHAPTER 1

### INTRODUCTION

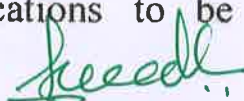
Fire accidents are common incidents all around the world most of the time this ends up in human life loss. These accidents can happen in any environment such as home, industries, hospitals etc. If accident occurs in an industrial environment the fatality of the situation is very high. This can be solved by designing a general system to monitor any type of environment remotely or locally.

### 1.1 DOMAIN OVERVIEW

#### OVERVIEW OF EMBEDDED SYSTEMS

An embedded system is a special-purpose computer system designed to perform one or a few dedicated functions, often with real-time computing constraints. It is usually embedded as part of a complete device including hardware and mechanical parts. In contrast, a general-purpose computer, such as a personal computer, can do many different tasks depending on programming. Embedded systems have become very important today as they control many of the common devices we use. Since the embedded system is dedicated to specific tasks, design engineers can optimize it, reducing the size and cost of the product, or increasing the reliability and performance. Some embedded systems are mass-produced, benefiting from economies of scale.

In general, "embedded system" is not an exactly defined term, as many systems have some element of programmability. For example, Handheld computers share some elements with embedded systems such as the operating systems and microprocessors which power them but are not truly embedded systems, because they allow different applications to be loaded and peripherals to be connected.



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## CHAPTER 8

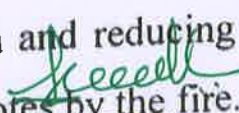
### CONCLUSION AND FUTURE ENHANCEMENT

#### CONCLUSION

Early cautioning and quick reaction to a fire breakout are the main approaches to dodge incredible misfortunes and natural and social legacy harms. Hence, the most critical objectives in flame observation are fast and solid identification and restriction of the fire. It is substantially less demanding to stifle a fire when the beginning area is known, and keeping in mind that it is in its beginning periods. Data about the advance of flame is likewise profoundly profitable for dealing with the fire amid every one of its stages. In light of this data, the fire battling staff can be guided on focus to hinder the fire before it achieves social legacy destinations and to smother it rapidly by using the required putting out fires hardware

#### FUTURE ENHANCEMENT

This study firstly reveals that IoT technology is a very promising green technology for the future in detecting efficiently the forest fires in our country. Secondly, and through the real experiments performed in the field, we conclude the effectiveness of the project and it's suitability to the context of our country mainly during summer seasons. The more data recovered by IOT about forest fires means the more effective fire management by forest authorities. Hence, introducing the paradigm of multi-modal detection of forest fires seems to be a good solution for the future in which scalar data and multi-media data can be collected by heterogeneous sensors. Such IOT based multi-modal detection systems can resolve efficiently some outstanding problems such as more precision of detection and reducing false alarm rate and also the avoidance of the destruction of mores by the fire.

  
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**QUALITY TESTING OF RICE GRAIN  
USING NEURAL NETWORK**



**A PROJECT REPORT**

*Submitted by*

**C.JOTHIKA (731218205004)**

**B.MAHESHWARI (731218205007)**

*In partial fulfilment for the award of the degree*

*of*

**BACHELOR OF TECHNOLOGY**

*In*

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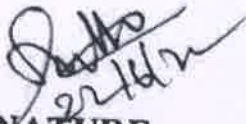
**JUNE 2022**

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**BONAFIDE CERTIFICATE**

Certified that this project report on **"QUALITY TESTING OF RICE GRAINS USING NEURAL NETWORK"** is the bonafide work of **"C.JOTHIKA(731218205004), B.MAHESHWARI(731218205007)"** who carried out the project work under my supervision.



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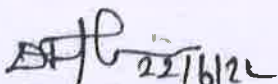
J.K.K.Munirajah college of

T.N.palayam

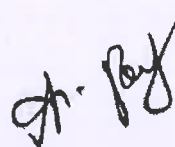
Technology,T.N. Palayam

Submitted for Viva-Voce Examination held on

22/06/22 AN



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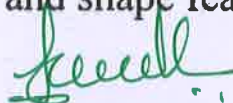


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## ABSTRACT

The analysis of grain type, grading and their quality attributes is still done by skilled persons manually. This method leads to complexity because it depends on several factors like human factors, working conditions and the rate of cleaning and recovery of salvage. This may be overcome by using image processing techniques. Testing on quality is gaining importance in food industry for classifying and grading the grains. Since manual testing is time consuming, costly and inaccurate, Quality testing of rice grains using neural network is preferred. In deep learning based testing, it take both physical grain shape and size and chemical characteristics amylose content, gel consistency for evaluation and grading of rice grains. In this proposed algorithm, quality and grading of rice grains were analysed using the average values of the features extracted from the network. The quality of rice depends on the rice varieties which decide the grade and cost of the rice. So the correct assessment of quality of rice is the important task. The analysis of grain type, grading and their quality attributes is still done by skilled persons manually. This method leads to complexity because it depends on several factors like human factors, working conditions and the rate of cleaning and recovery of salvage. This may be overcome by using image processing techniques. As the technology is growing wider people are adopting the new technologies rather than using the old techniques. The growth in technology is making people more demanding towards the things they use and consume, this is the reason why everything is becoming automated. The use of Image processing techniques for testing the quality of rice grains is inexpensive and is less time consuming. In this method, the quality of grain is tested based on its size and shape features.



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## CHAPTER 1

### INTRODUCTION

Rice is one of the most important and most used cereal grains of Pakistan as well as overall world. It is also most important for the human nutrition caloric intake. It generally provides 130 calories per 100 grams with 1% calcium, iron and 3% magnesium. It is the seed of grass specie *Oryza sativa* (Asian rice) and *Oryza glaberrima* (African rice) . Due to the blessed agro-climatic conditions, Pakistan is known for its production of three different types of rice which includes aromatic, medium and round grain rice. China, Pakistan, India, Indonesia and Vietnam are the main rice producing countries. It is the second staple food of Pakistan first being wheat. According to the latest ranking, Pakistan is ranked among top twenty producers of rice with the annual production of 9.935 million metric tons. It is also an important cash crop. Rice is the major cereal produced almost all areas in the entire world. India plays the vital role in the production of rice as it is the principle food of Indians and the Indian population is also growing at the rate of 1.2%.

It is grown on a majority of the rural farms. The quality of rice depends on the rice varieties which decide the grade and cost of the rice. So the correct assessment of quality of rice is the important task. The analysis of grain type, grading and their quality attributes is still done by skilled persons manually. This method leads to complexity because it depends on several factors like human factors, working conditions and the rate of cleaning and recovery of salvage. This may be overcome by using image processing techniques. As the technology is growing wider people are adopting the new technologies rather than using the old techniques. The growth in technology is making people more demanding towards the things they use and consume, this is the reason why everything is becoming automated. The use of Image processing techniques for

testing the quality of rice grains is inexpensive and is less time consuming. In this method, the quality of grain is tested based on its size and shape features.



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## CHAPTER 7

### CONCLUSION

In this research work, a simple, portable and efficient system is designed to analyze the quality and classify the different varieties of rice grains. Purpose of this research work is to help the industrialists to verify the quality of rice grains for import as well as export purposes. The whole system is implemented using neural network technique with segmentation method. In this project, a simple, portable and efficient system is designed to analyse the quality and classify the different varieties of rice grains. Purpose of this work is to help the industrialists to verify the quality of rice grains for import as well as export purposes. The whole system is implemented using neural network technique with classification method.

After conducted studies of seed culture classification with computer vision, it is possible to conclude that the computer vision technologies are appropriate for improving the process of seed classification in order to provide better grain crop purification processing. Here in this paper various feature extraction techniques and their various parameters are discussed. The project also presents the various application areas where feature extraction techniques are used. Hence on the basis of their advantages and their performance a new and efficient technique can be implemented in future and hence their applications can be used in various fields such as recognition, classification and matching. It is clear that CNN has higher accuracy for all the trained images in all type of the clusters thus by implementing the neural networks we can get much better results.



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**IOT BASED AGRICULTURE MONITORING  
AND CONTROLLING SYSTEM USING**



**ARDUINO UNO**

**A PROJECT REPORT**

*Submitted by*

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**PRASANTH K**

**(731218205013)**

*In partial fulfillment for the award of the degree*

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**BONAFIDE CERTIFICATE**

Certified that this project report on **"IOT BASED AGRICULTURE MONITORING AND CONTROLLING SYSTEM USING ARDUINO UNO"** is the bonafide work of **"KARVANNAN K (731218205005), PRASANTH K (731218205013)"** who carried out the project work Under my supervision.

  
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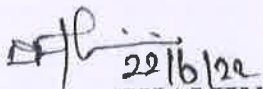
J.K.K.Munirajah College of Technology

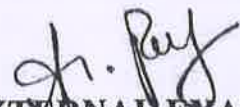
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T.N.Palayam

Submitted for the Viva-Voce examination held on 22-06-2022 / AN

  
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## ABSTRACT

Agriculture area unit controlled space surroundings to grow plants. so as to realize most plant growth, the continual watching and controlling of environmental parameters like temperature, humidity, soil moisture, intensity level, soil pH, etc. area unit necessary for a greenhouse system. The aim of this project is to style an easy, low cost, Arduino based mostly system to observe the values of environmental parameters which area unit endlessly updated and controlled so as to realize optimum plant growth and yield. The DHT11 sensing element, Soil wet sensing element, LDR sensing element, and pH scale sensing element is that the main sensors utilized in this project offer the precise price of temperature, humidity, water content, intensity level, and soil pH scale severally. All environmental parameters area unit sent to android mobile via offline and on-line. GSM (Global System for Mobile communication) electronic equipment is used to send SMS (Short Message Service) that displays the current standing of the environmental parameters. The SMS is distributed to the user once the sensing element value exceeds an outlined level. All farmers will control their agriculture from anywhere by knowing the standing of their greenhouse parameters at any time and that they will management actuators (cooling fan, fan, and motor pump) to regulate environmental parameters by causation SMS. WI-FI is additionally wont to send the information parameters to a mobile that eliminates the SMS charges through my MQTT app. All environmental parameters area units sent to server through WI-FI and hold on within the info. Therefore the user will monitor and management parameters through the android mobile application.



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## CHAPTER 1

### INTRODUCTION

In today's agriculture, observation and controlling of the many parameters square measure necessary for the great quality and productivity of plants. however to induce the specified resultsome parameters like temperature, humidity, soil wet, intensity level, and soil PH square measure necessary for higher plant growth. Therefore Arduino based mostly on greenhouse environment observation and controlling system mistreatment sensors are designed. For this project, the Arduino microcontroller is employed. Arduino will receive input from a range of sensors and it wills management motors, lights, and different actuators. Four sensors, DHT11 sensor, LDR sensor, Soil moisture sensor, and pH sensor square measure used. The DHT11 sensor is employed to live temperature and wetness. Soil wet device measures the water content within the soil. PH sensor measures the PH of the soil. A cooling fan, exhaust fan, and motor pump are connected to the Arduino. All environmental parameters square measure sent to automaton transportable via offline and online. A GSM modem and WI-FI square measure won't send environmental parameters to android mobile.



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## CHAPTER 7

### CONCLUSION AND FUTURE ENHANCEMENT

#### CONCLUSION

An Arduino based mostly agriculture observance and controlling system is designed. DHT11 sensor, Soil moisture sensor, LDR sensor, and pH sensor is that the main sensors utilized in this project that provide the exact value of temperature, humidity, wetness content, intensity level, and soil pH severally. This technique is intended for controlling and observance environmental parameters in a very greenhouse by an easy SMS from anywhere via the GSM network. WI-FI is additionally wont to send the information parameters to the mobile that eliminates the SMS charges. This technique reduces power consumption, maintenance, and complexness. This project is often employed in the agricultural field, in a very nursery, and within the installation.

#### FUTURE ENHANCEMENT

In this manner we are increasing the system which able to control the agriculture monitoring in fields where the human being not capable to provide security. Such system we are developing in the field where the crops are costly are monitored and all the climatic conditions are well maintained important. In this area we are provide such kind of system.



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

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



### INTERNSHIP DETAILS 2021-2022

SI.NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731218205005	KARVANNAN K	SAN SOFTWARE	COIMBATORE	16.3.2022
2	731218205013	PRASANTH K			to 30.4.2022

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**Internship**

1 message

---

TUE 08 MAR 2022 at 2.30pm

From:HODIT<hodit@jkkmct.edu.in>Date: TUE 08 MAR  
2022 at 2.30pm  
Subject:Internship -reg  
To:SANSOFTWARE<sherinjames20@gmail.com>

Dear Sir,


I am requesting to be joining your **SAN SOFTWARE**.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:**(KARVANNAN.C,PRASANTH.K)**

Sincerely,

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

  
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**Internship**

1 message

WED 09 MAR 2022 at 3.30pm

From: SANSOFTWARE<sherinjames20@gmail.com>

Date: WED 09 MAR 2022 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 16.03.2022 to 30.04.2022 and to tell you how to be joining my **SAN SOFTWARE**. 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 13,2022** 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: **( KARVANNAN.C, PRASANTH.K )**

Sincerely,

HRManager,  
SAN SOFTWARE SOLUTIONS PRIVATE LIMITED,  
Coimbatore.

  
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The Software for Any Business

# Certificate of Internship



This is to certify that **Mr.PRASANTH.K** Final year B.Tech.,Information Technology of **JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, Erode**, has attended **Internship training** in our organization from **March 16.03.2022 to April 30.04.2022.**

During this **Internship training**, he has learned the overview concepts of **IOT BASED AGRICULTURE CONTROLLING SYSTEM USING ARDUINO UNO.**

Date : 30.04.2022

For SAN SOFTWARE

Authorised Signature

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The Software for Any Business

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**Date : 30.04.2022**

**For SAN SOFTWARE**

**Authorised Signature**

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**CRYPTO CURRENCY MARKET  
PREDICTION USING DEEP  
LEARNING**



**A PROJECT REPORT**

*Submitted by*

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**S.MONISHA (731218205011)**

**M.SUMATHI (731218205027)**

*in partial fulfillment for the award of the degree*

*of*

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**BONAFIDE CERTIFICATE**

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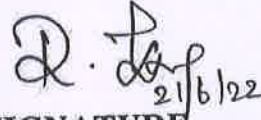
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Mrs.R.KAVITHA, M.E.,

SUPERVISOR

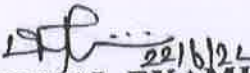
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## ABSTRACT

Deep learning and AI-assisted trading have attracted growing interest for the past few years. Here, we use this approach to test the hypothesis that the inefficiency of the crypto currency market can be exploited to generate abnormal profits. We analyze daily data for 1,681 crypto currencies for the period between Nov. 2015 and Apr. 2018. We show that simple trading strategies assisted by state of the art deep learning algorithms outperform standard benchmarks. Our results show that non-trivial, but ultimately simple, algorithmic mechanisms can help anticipate the short term evolution of the crypto currency market. Crypto currency such as Bitcoin is more popular these days among investors.

It is studied to forecast the Bitcoin price precisely considering different parameters that influence the Bitcoin price. This study first handles, it is identified the price trend on day by day changes in the Bitcoin price while it gives knowledge about Bitcoin price trends. The dataset till current date is taken with open, high, low and close price details of Bitcoin value. Exploiting the dataset deep learning module is introduced for prediction of price values. The aim of this work is to derive the accuracy of Bitcoin prediction using different deep learning algorithm and compare their accuracy. Experiment results are compared for decision tree and regression model.

Bitcoin is a one of the crypto currency which is utilized worldwide for computerized investment. Bitcoin is decentralized for example it isn't possessed by anybody. Trades made by Bitcoins are simple as they are not fixing to any nation. Investment is possible through different commercial centers known as bitcoin trades. These enable individuals to trade on Bitcoins utilizing various currencies.



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## CHAPTER 1

### INTRODUCTION

Bitcoin is a crypto currency which is used worldwide for digital payment or simply for investment purposes. Bitcoin is decentralized i.e. it is not owned by anyone. Transactions made by Bitcoins are easy as they are not tied to any country. Investment can be done through various marketplaces known as "bitcoin exchanges". These allow people to sell/buy Bitcoins using different currencies. The largest Bitcoin exchange is Mt Gox. Bitcoins are stored in a digital wallet which is basically like a virtual bank account. The record of all the transactions, the timestamp data is stored in a place called Block chain. Each record in a block chain is called a block. Each block contains a pointer to a previous block of data. The data on block chain is encrypted. During transactions the user's name is not revealed, but only their wallet ID is made public.

The Bitcoins value varies just like a stock albeit differently. There are a number of algorithms used on stock market data for price prediction. However, the parameters affecting Bitcoin are different. Therefore it is necessary to predict the value of Bitcoin so that correct investment decisions can be made.

The price of Bitcoin does not depend on the business events or intervening government unlike stock market. Thus, to predict the value we feel it is necessary to leverage machine learning technology to predict the price of Bitcoin and currently there are few prediction models available. The crypto currency is a new technology.

#### 1.1 DOMAIN OVERVIEW

#### DEEP LEARNING

Deep Learning, is a more evolved branch of machine learning, and uses layers of algorithms to process data, and imitate the thinking process, or to develop abstractions.



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## CHAPTER 10

### CONCLUSION AND FUTURE WORK

#### 10.1 CONCLUSION

Deep Learning models such as the RNN and LSTM are evidently effectively learners on training data with the LSTM more capable for recognizing longer term dependencies. However, a high variance task of this nature makes it difficult to transpire this into impressive validation results. As a result it remains a difficult task. There is a fine line to balance between over fitting a model and preventing it from learning sufficiently. After establishing the learning framework and completing the normalization, intend to use the two methods mentioned above and choose the best method to solve the bitcoin prediction problem. In terms of the dataset, based on an analysis of the weights of the model the difficulty and hash rate variables could be considered for pruning. Machine learning models require a significant amount to data to learn effectively from. The dataset utilized contained 1066 time steps representing each day. If the granularity of data was changed to per minute this would provide 512,640 data points in a year. Data of this nature is not available for the past but is currently being gathered from coin desk on a daily basis for future use.

#### 10.2 FUTURE WORK

In this future work will extend our algorithmic rule by together with text mining methods for analyzing the content of comments on social networks sites and determine the patterns and relationship between corporate/consumer communication and companies stock worth. Finally, we tend to conclude that its possible to use computation ways like algorithms and data mining techniques to explore a corporation communication patterns And utilize such patterns to predict a corporations structure performance like stock performance.



**MACHINE LEARNING BASED MODEL FOR  
CROP YIELD PREDICTION**



**A PROJECT REPORT**

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**BONAFIDE CERTIFICATE**

Certified that this project report on **"MACHINE LEARNING BASED MODEL FOR CROP YIELD PREDICTION"** is the bonafide work of **"S.PRABHAKARAN (731218205012), M.PRASANTH (731218205014)"** who carried out the project work under my supervision.



SIGNATURE

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

HEAD OF THE DEPARTMENT

Associate Professor

Dept.of Information Technology

J.K.K.Munirajah College of Technology

T.N.Palayam



SIGNATURE

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

SUPERVISOR

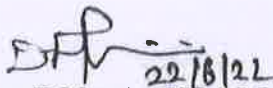
Associate Professor

Dept.of Information Technology

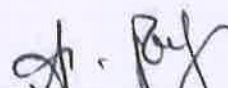
J.K.K.Munirajah College of Technology

T.N.Palayam

Submitted for the Viva-Voce examination held on 22-06-2022 / AN



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EXTERNAL EXAMINER



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JKK MUNIRAJAH COLLEGE  
OF TECHNOLOGY

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

GOBI (Tk), ERODE (Dt).

## ABSTRACT

Our country's economy is mainly based on agriculture. Farmers play an important role in agriculture. At present scenario due to variation in climatic change and other price influencing parameters farmers face massive loss due to uncertainties in the price prediction. Price Prediction, nowadays, has become a very important agricultural problem which is to be solved only based on the available data. In general with help of this application farmers get a beforehand prediction which helps to increase their profit and prevent massive loss. It increases the country's economy. Agriculture is one of the major revenue producing sectors of India and a source of survival. Numerous seasonal, economic and biological patterns influence the crop production but unpredictable changes in these patterns lead to a great loss to farmers. These risks can be reduced when suitable approaches are employed on data related to soil type, temperature, atmospheric pressure, humidity and crop type. Whereas, crop and weather forecasting can be predicted by deriving useful insights from these agricultural data that aids farmers to decide on the crop they would like to plant for the forthcoming year leading to maximum profit. This presents a survey on the various algorithms used for weather, crop yield, and crop cost prediction.



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## CHAPTER 1

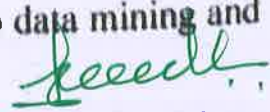
### INTRODUCTION

Agriculture is the main pillar of the economy in our country. Most of the families rely on Agriculture. Country's Gross Development predominantly learns on Agriculture. 60% of the land is utilized for Agriculture to adequate the requirements of the Country's population. It uses Machine Learning techniques on various data to come out with better solutions. This solution uses Support Vector Regression technique to predict the crop value using the data trained from authenticated dataset. By this application productivity can be increased by understanding and Forecasting croppers for acne in a variety of environmental conditions. An effective Crop price forecasting system can give out possibilities for customers which can satisfy the customers to a greater context. Finally, the results are displayed as web applications so that poor farmers can access them easily. The proposed system applies machine learning and prediction algorithm like Logistic Regression, Decision Trees, this in turn will help predict the target price of the crop.

### 1.1 DOMAIN SPECIFICATION

#### MACHINE LEARNING

Machine Learning is a system that can learn from example through self-improvement and without being explicitly coded by programmer. The break through comes with the idea that a machine can singularly learn from the data (i.e., example) to produce accurate results. Machine learning combines data with statistical tools to predict an output. This output is then used by corporate to makes actionable insights. Machine learning is closely related to data mining and Bayesian predictive modeling.



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## CHAPTER 8

### CONCLUSION AND FUTURE SCOPE

#### CONCLUSION

The research aims at predicting the price and forecast through backend application and it is runs on efficient machine learning algorithms and technologies giving a good accuracy. The training datasets so obtained provide the enough insights for predicting the appropriate price and demand in the markets. Thus, the system helps the farmers in reducing their difficulties and stops them by attempting suicides.

#### 8.2 FUTURE SCOPE

Crop yield prediction is the ability of the algorithm. In future we can determine the efficient web enhancement or application based on their accuracy metrics that will helps to choose an efficient algorithm for crop yield prediction.



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

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



## INTERNSHIP DETAILS 2021-22

SI.NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731218205012	PRABHAKARAN S	PAN TECH	COIMBATORE	16.3.2022
2	731218205014	PRASANTH M			to 30.4.2022

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OF TECHNOLOGY**

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

**Internship**

1 message

TUE 08 MAR 2022 at 1.30pm

From: HODIT &lt;hodit@jkkmct.edu.in&gt; Date: TUE

08 MAR 2022 at 1.30pm

Subject: Internship -reg

To: PANTECH &lt;rithiksam22@pantech.com&gt;

Dear Sir,

I am requesting to be joining your **PAN 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: **(PRABHAKARAN.S, PRASANTH.M)**

Sincerely,

Final Year IT Students,

J K KMunirajah College of Technology,

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

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



**Internship**

1 message

WED 09 MAR 2022 at 3.30pm

From: PANTECH<rithiksam22@pantech.com>

Date: WED 09 MAR 2022 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 16.03.2022 to 30.04.2022 and to tell you how to be joining my PAN 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 MARCH 13, 2022 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: ( PRABHAKARAN.S, PRASANTH.M )

Sincerely,

HR Manager,  
PAN TECH SOLUTIONS PRIVATE LIMITED,  
Coimbatore.

**PRINCIPAL**  
JKK MUNIRAJAH COLLEGE  
OF TECHNOLOGY  
T.N. PALAYAM (Po)-638 506.  
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This is to certify that **Mr.PRABHAKARAN.S** Final year B.E., Computer Science and Engineering of JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, Erode, has attended Internship training in our organization from **March 16.03.2022 to April 30.04.2022.**

During this Internship training, he has learned the overview concepts of **MACHINE LEARNING BASED MODEL FOR CROP YIELD PREDICTION.**

Date : 30.04.2022



  
Authorised Signature



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During this Internship training, he has learned the overview concepts of **IOT BASED EMISSION MONITORING SYSTEM IN VEHICLE USING NODEMCU.**

Date : 30.04.2022



  
Authorised Signature

  
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**IOT BASED SMART WASTE  
MANAGEMENT  
SYSTEM USING NODE MCU ESP8266**



**A PROJECT REPORT**

*Submitted by*

**S.RANJITHA (731218205019)  
A.SOWNDARYA (731218205026)**

*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**

**JUNE 2022**

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

**BONAFIDE CERTIFICATE**

Certified that this project report on **"IOT BASED SMART WASTE MANAGEMENT SYSTEM USING NODE MCU ESP8266"** is the bonafide work of **"S.RANJITHA (731218205019), A.SOWNDARYA (731218205026)"** who Carried out the project work under my supervision.

  
20/6/22

**SIGNATURE**

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

**HEAD OF THE DEPARTMENT**

Associate Professor

Dept. of Information Technology

J.K.K.Munirajah College of Technology

T.N.Palayam

  
20/6/22

**SIGNATURE**

**Mrs.D.NIVETHINI.M.Tech**

**SUPERVISOR**


Assistant Professor

Dept. of Information Technology

J.K.K.Munirajah College of technology

T.N.Palayam

Submitted for the Viva-Voce examination held on 22/06/22 /AN

  
22/6/22  
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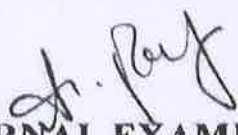
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**EXTERNAL EXAMINER**

## ABSTRACT

A system is introduced to manage waste in big cities effectively without having to monitor the parts 24×7 manually. Here the problem of unorganized and non-systematic waste collection is solved by designing an embedded IOT system that will monitor each dumpster individually for the amount of waste deposited. Here an automated system is provided for segregating wet and dry waste. A mechanical setup can be used for separating the wet and dry waste into separate containers here sensors can be used for separating wet and dry. For detecting the presence of any waste wet or dry can be detected using an IR sensor in the next step for detecting wet waste a moisture sensor can be used. In this process, if only IR is detected motor will rotate in the direction of the dry waste container if both the sensor detects the waste then it will go to the wet container. Both these containers are embedded with ultrasonic sensors at the top, the ultrasonic sensor is used for measuring distance. This makes it possible to measure the amount of waste in the containers that data is uploaded to thing speak.



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## CHAPTER 1

### INTRODUCTION

Today big cities around the world are facing a common problem, managing the city waste effectively without making city unclean. Today's waste management systems involve a large number of employees being appointed to attend a certain number of dumpsters this is done every day periodically. This leads to a very inefficient and unclean system in which some dumpsters will be overflowing some dumpsters might not be even half full. This is caused by variation in population density in the city or some other random factor this makes it impossible to determine which part needs immediate attention. Here a waste management system is introduced in which each dumpster is embedded in a monitoring system. In this system, it is also possible to separate wet and dry waste into two separate containers. This system provides an effective solution to the waste management problem.

The amount of waste produced everyday by the industries and the households is increasing at an appalling rate, and the major reason for this is soaring use of packaged items, textiles, paper, food, plastics, metals, glass etc, thus management of this refuse becomes a crucial part in our everyday life. In most of the developed countries there are many efficient techniques which are used for the proper management of this waste, but in some countries especially the developing ones the careless attitude of people towards maintaining clean surroundings, along with this many issues such as no stringent laws for using the biodegradable materials, no proper environ policies, no laws for sustainable development are the need for the fatal results of waste management. Due to the increasing waste, the public bins which are used for collecting this waste are overflowing; the locality is lmbled of trash, causing not only malodorous streets but also a negative impact on the health and environment. Waste is a crucial issue, which needs to be addressed promptly. We segregate the waste at our homes for ease at processing and recycling. We observed trash vans come irregular to homes creating a despoliation of households. Due to this many civilians empty their overloaded dustbins in open



paces. This in turn increases environmental pollution the waste is a great hassle for our health and the environment it has many effects which are dreadful. Trash is breeding ground for bacteria, insects, flies these flies are the same that roam around the eatable and drop them off springs.

Disposal of hazardous waste like the electronic items, plastics in water affect the aquatic life and indirectly the human beings. Overflowing garbage is also a public hassle and eyesore. A malodorous city with trash all around the place does not attract tourist thus losing the money revenue and the opportunities. As prosperity grows, 62 million tons of garbage is generated everyday by the 377 million people living in urban India, now the world's third largest garbage generator. However, it's not the amount of waste generated that's as much of an issue as the fact that more than 45 million tons, or 3 million trucks worth, of garbage is untreated and disposed of by municipal authorities every day in an unhygienic manner.

It is very salient issue to deal and discover the proper remedies for it some of them are like government should enact stringent laws against the people throwing trash, against the industries for not using biodegradable material, more use of recycle items, reduce the use of non-degradable stuff, reuse the items, thus implementing this can reduce the waste up to some extent. The internet nowadays has the world under its spell. Not a single person lives without internet, phone, tab or laptop. It is believed without connectivity you cannot move ahead in today's world but sometimes due to heavy plans or connectivity issues we can't access to the internet, and thus attracting people towards free Wi-Fi. Providing free Wi-Fi facility for dumping waste into the dustbin would solve the issue of waste and the internet facility plus availability of free service would help people go crazy and would act as reward for maintain cleanliness in the locality.



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## CONCLUSION & FUTURE ENHANCEMENT

### CONCLUSION

This is very effective in managing waste in any big city. Rather than using conventional periodic collection methods here priority system is used to the city is clean all the time without any overflowing dumpsters. It has been tested and verified properly to make sure all the different parts work together for a smooth function of the whole system.

### FUTURE ENHANCEMENT

The same implementation was tested in Node MCU and it works well, but Raspberry Pi also has an extensive imaging library, so it can also be used for the same applications. In addition, compared to other controllers, the extra memory used to store all recorded videos/images on the Raspberry I. During the operation of the system, data can be called from the cloud at any time. This data can be used to predict and calibrate systems running various machine learning algorithms and predict the usage of the container at a specific date and time. This will help the respected department predict containers and help road transportation for early cleaning. A smart and organized system is designed for selective clearing the ultrasonic sensor is used for measuring the level of waste in the dustbin, DC motor powered platform is used for segregating wet and dry waste, IR sensor and moisture sensor is used for separating wet and dry waste. If either of the containers is full then an alert message is sent from the dustbin to employees and the cloud. In turn, employees can clear the corresponding dumpster.



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



### INTERNSHIP DETAILS 2021-2022

SI.NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731218205019	RANJITHA S	SAN SOFTWARE	COIMBATORE	16.3.2022
2	731218205026	SOWNDARYA A			to 30.4.2022

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GOBI (Tk), ERODE (Dt).



**Internship**  
1 message

TUE 08 MAR 2022 at 2.30pm

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

Date: TUE 08 MAR 2022 at 2.30pm

Subject: **Internship** -reg

To: SANSOFTWARE <sherinjames20@gmail.com>

Dear Sir,

I am requesting to be joining your **SAN SOFTWARE**. 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: **(RANJITHA.R,SOUNDARYA.A)**

Sincerely,

Final Year IT Students,

J K KMunirajah College of Technology,

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

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As we discussed, I will report at 8:00 a.m. on MARCH 13, 2022 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.

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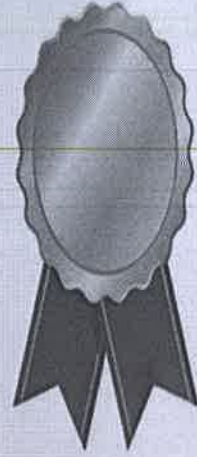
HRManager,  
SAN SOFTWARE SOLUTIONS PRIVATE LIMITED,  
Coimbatore.

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GOBI (Tk), ERODE (Dt).



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This is to certify that **Mr.SOWNDARYA**.A Final year B.Tech.,Information Technology of JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, Erode, has attended Internship training in our organization from **March 16.03.2022 to April 30.04.2022.**

During this Internship training, he has learned the overview concepts of **IOT BASED AGRICULTURE CONTROLLING SYSTEM USING ARDUINO UNO.**

**For SAN SOFTWARE**

**Authorised Signature**

**Date : 30.04.2022**

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GOBI (Tk), ERODE (Dt).**



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**For SAN SOFTWARE**

**Authorised Signature**

**Date : 30.04.2022**

**PRINCIPAL**

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



**SKIN CANCER DETECTION  
USING DEEP LEARNING**



**A PROJECT REPORT**

*Submitted by*

**REKA N (731218205020)**

**SANMUGAPRIYA R (731218205023)**

*in partial fulfillment forth award of the degree*

*of*

**BACHELOR OF TECHNOLOGY**

*in*

**INFORMATION TECHNOLOGY**

**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**

**T.N.PALAYM, GOBI-638506**

**ANNAUNIVERSITY::CHENNAI 600025**

**JUNE 2022**

**PRINCIPAL**

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GOBI (Tk), ERODE (Dt).**

**ANNA UNIVERSITY:CHENNAI600025**

**BONAFIDE CERTIFICATE**

Certified that this project report on "SKIN CANCER DETECTION USING DEEP LEARNING" is the bonafide work of "N.REKA(731218205020), R.SANMUGAPRIYA (731218205023)" who carried out the project work under my supervision.



**SIGNATURE**

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

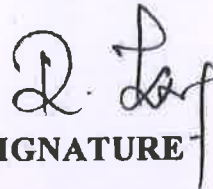
**HEAD OF THE DEPARTMENT**

Associate Professor

Dept of Information Technology

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T.N.Palayam



**SIGNATURE**

**Mrs. R.KAVITHA .M.E**

**SUPERVISOR**

Assistant Professor

Dept of Information Technology

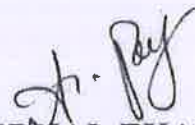
J.K.K.Munirajah College of Technology

T.N.Palayam

Submitted for the Viva- Voice examination held on 22.06.22 /AN



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**



**PRINCIPAL**

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OF TECHNOLOGY**

**T.N. PALAYAM (Po)-638 506.  
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## ABSTRACT

Human Cancer is one of the most dangerous disease which is mainly caused by genetic instability of multiple molecular alterations. Among many forms of human cancer, skin cancer is the most common one. To identify skin cancer at an early stage it will study and analyze them through various techniques named as segmentation and feature extraction. Here, it focus malignant melanoma skin cancer, (due to the high concentration of Melanoma Hier it offer our skin, in the dermis layer of the skin) detection. It used our ABCD rule dermoscopy technology for malignant melanoma skin cancer detection. In this system different step for melanoma skin lesion characterization, first the Image Acquisition Technique, pre-processing, segmentation, define feature for skin Feature Selection determines lesion characterization, classification methods. In the Feature extraction by digital image processing method includes, symmetry detection, Border Detection, color, and diameter detection and also it used LBP for extract the texture based features. Here it proposed the Back Propagation Neural Network to classify the benign or malignant stage.



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# CHAPTER 1

## INTRODUCTION

### 1.1 DIGITAL IMAGE PROCESSING

The identification of objects in an image would probably start with image processing techniques such as noise removal, followed by (low-level) feature extraction to locate lines, regions and possibly areas with certain textures.

The clever bit is to interpret collections of these shapes as single objects, e.g. cars on a road, boxes on a conveyor belt or cancerous cells on a microscope slide. One reason this is an AI problem is that an object can appear very different when viewed from different angles or under different lighting. Another problem is deciding what features belong to what object and which are background or shadows etc. The human visual system performs these tasks mostly unconsciously but a computer requires skillful programming and lots of processing power to approach human performance.

Manipulating data in the form of an image through several possible techniques. An image is usually interpreted as a two-dimensional array of brightness values, and is most familiarly represented by such patterns as those of a photographic print, slide, television screen, or movie screen. An image can be processed optically or digitally with a computer.



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## CHAPTER 8

### CONCLUSION AND FUTURE ENHANCEMENT

#### CONCLUSION

The skin cancer detected by using neural network here we create a graphical user interface for getting input images, analyzing and classifying the output .we comprehensively illustrate the color conversion, GLCM feature extraction technique, neural network and ABCD parameters to classify the output. By using these methods we get a more accuracy , specificity, and the performance also be increased . ANN has been implemented for classification of skin lesion. PNN is adopted for it has fast speed on training and simple structure. More images of were used to train the ANN classifier and tests were run on different set of images to examine classifier accuracy.

#### FUTURE ENHANCEMENT

In future we will increased the performance of this process and able to get more accuracy. Automatic defects detection is very important in many diagnostic and therapeutic applications. This work has introduced one automatic brain tumor detection method to increase the accuracy and yield and decrease the diagnosis time.. And then last stage, back propagation Neural Network (BPN) are employed to classify the Normal and abnormal. An efficient algorithm is proposed for tumor detection based on the Spatial Fuzzy C-Means Clustering.



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.

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



**DEPARTMENT OF INFORMATION TECHNOLOGY**

**ACADEMIC YEAR: 2021-2022**

**INPLANT TRAINING DETAILS**

S. No	REGISTER NUMBER	NAME OF THE STUDENT	NAME OF THE COMPANY	LOCATION	DATE
1	731219205002	GOWTHAM.H	QTREE TECHNOLOGIES	COIMBATORE	02.05.2022 – 07.05.2022
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			

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



HODIT <hodit@jkkmet.edu.in>

**Inplant Training**

1 message

WED 19 APR 2022 at 11.30am

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

Date: WED 19 APR 2022 at 11.30am

Subject: **Inplant Training** -reg

To: HR<hrqtreetechnologies.com>

Dear Sir,

I am requesting you to give permission for In plant Training to 10 students of 3<sup>rd</sup> B.TECH-Information Technology in your company from **02.05.2022 to 07.05.2022**. I give assurance to the students to make a significant contribution to your organization. They look forward to working with you and your fine team. So kindly give the permission to complete their in plant training in your company as successful manner.

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

Sincerely,

Head of the Department

JKK 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).**



HR<hrqtreetechnologies.com>

**Inplant Training**

1 message

MON 24 APR 2022 at 11.30am

From: HR<hrqtreetechnologies.com>  
Date: MON 24 APR 2022 at 11.30am  
Subject: **Inplant Training** -reg  
To: HODIT<hodit@jkkmct.edu.in>

Dear Sir/Madam,

Noted and Accepted your Request.

This is to inform your department third year B.TECH –Information Technology students **GOWTHAM.H, MAHANTESH.S, NANDHINI.R, NAVEEN.S, NINGARAJU.S, NITHYA.K, PRABHU.M, PRIYADARSINI.T, VAIDEVI.M, VAIGAIRAJ.M** granted permission for their internship from **02.05.2022 to 07.05.2022** in our company. So kindly make necessary arrangements for the same and also inform to your students must come with proper dress code and college ID card.

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

Sincerely,HR,  
Qtree Technologies.  
Coimbatore.



## QTREE TECHNOLOGIES

No 22, First Floor ,Ram Nagar ,Coimbatore -641009


### CERTIFICATE OF INPLANT TRAINING

This is to certify that Mr/Ms .....**GOWTHAM.H**..... Third year Information Technology from JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM has Satisfactorily completed his **Inplant Training** on Data Science & Artificial Intelligence during the period of **02.05.2022** to **7.05.2022** under our Guidance.

DATE :14.05.2022



  
PROJECT MANAGER

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



# QTREE TECHNOLOGIES

No 22, First Floor ,Ram Nagar ,Coimbatore -641009

## CERTIFICATE OF INPLANT TRAINING

This is to certify that Mr/Ms .....**MAHANTESH.S**..... Third year Information Technology from JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM has Satisfactorily completed his **Inplant Training** on Data Science & Artificial Intelligence during the period of **02.05.2022 to 7.05.2022** under our Guidance.

DATE :14.05.2022



A handwritten signature in black ink, appearing to read 'Rohit'.

PROJECT MANAGER

A handwritten signature in green ink, appearing to read 'Sreedh'.

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



# QTREE TECHNOLOGIES

No 22, First Floor ,Ram Nagar ,Coimbatore -641009

## CERTIFICATE OF INPLANT TRAINING

This is to certify that Mr/Ms .....**NANDHINI.R**..... Third year Information Technology from JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM has Satisfactorily completed his **Inplant Training** on Data Science & Artificial Intelligence during the period of **02.05.2022** to **7.05.2022** under our Guidance.

DATE :14.05.2022



PROJECT MANAGER

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



# QTREE TECHNOLOGIES

No 22, First Floor ,Ram Nagar ,Coimbatore -641009


## CERTIFICATE OF INPLANT TRAINING

This is to certify that Mr/Ms ..... **NAVEEN.S** ..... Third year Information Technology from JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM has Satisfactorily completed his **Inplant Training** on Data Science & Artificial Intelligence during the period of **02.05.2022 to 7.05.2022** under our Guidance.

DATE :14.05.2022



  
PROJECT MANAGER

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



# QTREE TECHNOLOGIES

No 22, First Floor ,Ram Nagar ,Coimbatore -641009

## CERTIFICATE OF INPLANT TRAINING

This is to certify that Mr/Ms .....**NINGARAJU.S**..... Third year Information Technology from JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM has Satisfactorily completed his **Inplant Training** on Data Science & Artificial Intelligence during the period of **02.05.2022 to 7.05.2022** under our Guidance.

DATE :14.05.2022



PROJECT MANAGER

PRINCIPAL

JKK MUNIRAJAH COLLEGE  
OF TECHNOLOGY

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



# QTREE TECHNOLOGIES

No 22, First Floor ,Ram Nagar ,Coimbatore -641009


## CERTIFICATE OF INPLANT TRAINING

This is to certify that Mr/Ms ..... **NITHYA.K** ..... Third year  
Information Technology from JKK MUNIRAJAH COLLEGE OF TECHNOLOGY,  
T.N.PALAYAM has Satisfactorily completed his **Inplant Training** on Data Science &  
Artificial Intelligence during the period of **02.05.2022 to 7.05.2022** under our Guidance.

DATE :14.05.2022



  
PROJECT MANAGER

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



# QTREE TECHNOLOGIES

No 22, First Floor, Ram Nagar, Coimbatore -641009

## CERTIFICATE OF INPLANT TRAINING

This is to certify that Mr/Ms ..... **PRABHU.M** ..... Third year  
Information Technology from JKK MUNIRAJAH COLLEGE OF TECHNOLOGY,  
T.N.PALAYAM has Satisfactorily completed his **Inplant Training** on Data Science &  
Artificial Intelligence during the period of **02.05.2022** to **7.05.2022** under our Guidance.

DATE :14.05.2022



A handwritten signature in black ink, appearing to read 'R. Srinivas'.

PROJECT MANAGER

A handwritten signature in green ink, appearing to read 'Sreedh'.

PRINCIPAL

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



# QTREE TECHNOLOGIES

No 22, First Floor ,Ram Nagar ,Coimbatore -641009


## CERTIFICATE OF INPLANT TRAINING

This is to certify that Mr/Ms ..... **PRIYADHARSINI.T** ..... Third year Information Technology from JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM has Satisfactorily completed his **Inplant Training** on Data Science & Artificial Intelligence during the period of **02.05.2022** to **7.05.2022** under our Guidance.

DATE :14.05.2022



  
PROJECT MANAGER

  
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OF TECHNOLOGY  
T.N. PALAYAM (Po)-638 506.  
GOVT. (TECHNICAL) COLLEGE



# QTREE TECHNOLOGIES

No 22, First Floor ,Ram Nagar ,Coimbatore -641009

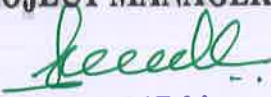
## CERTIFICATE OF INPLANT TRAINING

This is to certify that Mr/Ms ..... **VAIDEVI.M** ..... Third year  
Information Technology from JKK MUNIRAJAH COLLEGE OF TECHNOLOGY,  
T.N.PALAYAM has Satisfactorily completed his **Inplant Training** on Data Science &  
Artificial Intelligence during the period of **02.05.2022 to 7.05.2022** under our Guidance.

DATE :14.05.2022



  
PROJECT MANAGER

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



# QTREE TECHNOLOGIES



No 22, First Floor ,Ram Nagar ,Coimbatore -641009

## CERTIFICATE OF INPLANT TRAINING

This is to certify that Mr/Ms .....**VAIGAIRAJ.M**..... Third year Information Technology from JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM has Satisfactorily completed his **Implant Training** on Data Science & Artificial Intelligence during the period of **02.05.2022 to 7.05.2022** under our Guidance.

DATE :14.05.2022



  
PROJECT 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.



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

## INTERNSHIP DETAILS2021-22

SI.NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731220205004	DEEPAK.A	BRAINERY SPOT TECH	COIMBATORE	21.02.2022 to 25.02.2022
2	731220205011	KALAISELVI.K			
3	731220205012	KAVIN.P			
4	731220205015	MUTHUKUMAR.G			
5	731220205016	PANDIYARAJ.C			
6	731220205021	SHIJIN KUMAR.K.G			
7	731220205024	THANGESHWARI.G			
8	731220205301	POORANESHWARAN.N			

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



**Internship**  
1 message

TUE 15 Feb 2022 at 2.00pm

From: HODIT <hodit@jkkmct.edu.in>  
Date: TUE 15 Feb 2022 at 2.00pm  
Subject: Internship -reg  
To: BRAINERYSPOT <kiruthika@braineryspot.com>

Dear Sir,


I am requesting to be joining your **BRAINERY SPOT TECH**. The requirements are exactly what I have prepared for and hoped for. 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, KALAISELVI.K, KAVIN.P, MUTHUKUMAR.G, PANDIYARAJ.C, SHIJIN KUMAR.K.G, THANGESHWARI.G, POORANESHWARAN.N)**

Sincerely,

2 nd 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

WED 16 Feb 2022 at 3.30pm

From: BRAINERYSPOT <kiruthika@braineryspot.com>

Date: WED 16 Feb 2022 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 21.02.2022 to 25.02.2022 and to tell you how to be joining my **BRAINERY SPOT 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 FEBRUARY 21.02.2022 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, KALAISELVI.K, KAVIN.P, MUTHUKUMAR.G, PANDIYARAJ.C, SHIJIN KUMAR.K.G, THANGESHWARIG, POORANESHWARAN.N**)

Sincerely,

HR Manager,  
Brainery Spot Tech,  
Coimbatore.

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



**BRAINERY SPOT**  
**TECHNOLOGY**  
LEARNING | DEVELOPMENT | PLACEMENT

Date : 25.02.2022

## INTERNSHIP CERTIFICATE

This is to inform that **Mr. DEEPAK A**, 2<sup>nd</sup> year B.Tech., Information Technology Engineering student of **JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, (ANNA UNIVERSITY), T.N.PALAYAM**, has attended **Internship** in our Organization from Feb 21.02.2022 to Feb 25.02.2022.

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

Thanking You.

For BRAINERY SPOT TECHNOLOGY

Authorised Signatory

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

Date : 25.02.2022

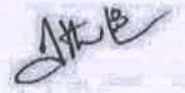
**INTERNSHIP CERTIFICATE**

This is to inform that **Ms.KALAISELVI A**, 2<sup>nd</sup> year B.Tech., Information Technology Engineering student of **JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, (ANNA UNIVERSITY), T.N.PALAYAM**, has attended **Internship** in our our Organization from Feb **21.02.2022** to Feb **25.02.2022**.


During this **Internship training**, She has learned the overview concepts of **WEB DEVELOPMENT**.

Thanking You.

For BRAINERY SPOT TECHNOLOGY



Authorised Signatory



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



**BRAINERY SPOT**  
**TECHNOLOGY**  
LEARNING | DEVELOPMENT | PLACEMENT

Date : 25.02.2022

## INTERNSHIP CERTIFICATE

This is to inform that **Mr.KAVIN P**, 2<sup>nd</sup> year B.Tech., Information Technology Engineering student of **JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, (ANNA UNIVERSITY), T.N.PALAYAM**, has attended **Internship** in our our Organization from Feb **21.02.2022** to Feb **25.02.2022**.

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

Thanking You.

For BRAINERY SPOT TECHNOLOGY

Authorised Signatory

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



**BRAINERY SPOT**  
**TECHNOLOGY**  
LEARNING | DEVELOPMENT | PLACEMENT

Date : 25.02.2022

## INTERNSHIP CERTIFICATE

This is to inform that **Mr.SHIJINKUMAR K.G**, 2<sup>nd</sup> year B.Tech., Information Technology Engineering student of **JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, (ANNA UNIVERSITY), T.N.PALAYAM**, has attended **Internship** in our our Organization from Feb **21.02.2022 to Feb 25.02.2022.**

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

Thanking You.

For BRAINERY SPOT TECHNOLOGY

Authorised Signatory

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



**BRAINERY SPOT**  
**TECHNOLOGY**  
LEARNING | DEVELOPMENT | PLACEMENT

Date : 25.02.2022

### INTERNSHIP CERTIFICATE

This is to inform that **Mr.MUTHUKUMAR G**, 2<sup>nd</sup> year B.Tech., Information Technology Engineering student of **JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, (ANNA UNIVERSITY), T.N.PALAYAM**, has attended **Internship** in our our Organization from Feb **21.02.2022 to Feb 25.02.2022**.

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

Thanking You.

For BRAINERY SPOT TECHNOLOGY

Authorised Signatory

PRINCIPAL

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



**BRAINERY SPOT**  
**TECHNOLOGY**  
LEARNING | DEVELOPMENT | PLACEMENT

Date : 25.02.2022

## INTERNSHIP CERTIFICATE

This is to inform that **Mr.PANDIYANARAJ C**, 2<sup>nd</sup> year B.Tech., Information Technology Engineering student of **JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, (ANNA UNIVERSITY), T.N.PALAYAM**, has attended **Internship** in our our Organization from Feb **21.02.2022** to Feb **25.02.2022**.

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

Thanking You.

For BRAINERY SPOT TECHNOLOGY

Authorised Signatory

PRINCIPAL

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



**BRAINERY SPOT**  
**TECHNOLOGY**  
LEARNING | DEVELOPMENT | PLACEMENT

Date : 25.02.2022

## INTERNSHIP CERTIFICATE

This is to inform that **Ms. THANGESHWARI G**, 2<sup>nd</sup> year B.Tech., Information Technology Engineering student of **JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, (ANNA UNIVERSITY), T.N.PALAYAM**, has attended **Internship** in our our Organization from Feb **21.02.2022** to Feb **25.02.2022**.

During this **Internship training**, She has learned the overview concepts of **WEB DEVELOPMENT**.

Thanking You.

For BRAINERY SPOT TECHNOLOGY

Authorised Signatory

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



**BRAINERY SPOT**  
**TECHNOLOGY**  
LEARNING | DEVELOPMENT | PLACEMENT

Date : 25.02.2022

## INTERNSHIP CERTIFICATE

This is to inform that **Mr.POORANESHWARAN N**, 2<sup>nd</sup> year B.Tech., Information Technology Engineering student of **JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, (ANNA UNIVERSITY), T.N.PALAYAM**, has attended **Internship** in our our Organization from Feb **21.02.2022 to Feb 25.02.2022**.

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

Thanking You.

For BRAINERY SPOT TECHNOLOGY

Authorised Signatory

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



**J.K.K.MUNIRAJAH  
COLLEGE OF TECHNOLOGY**

T.N.PALAYAM (PO), GOBI (TK), ERODE (DT) – 638 506  
www.jkkmct.edu.in, Landline no: 04285260754 / 260755



**INTERNSHIP DETAILS 2021-22**

SI.NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731220205001	A.AJAYSRI	<b>DURGA TECH</b>	ERODE	21.02.2022 to 25.02.2022
2	731220205006	M.DHARANI			
3	731220205017	A.PARVATHY			
4	731220205009	S.GOKUL			
5	731220205020	N.RAVISANKARAN			
6	731220205023	N.SIVABALAJI			

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



## Internship

1 message

Mon 14 Feb 2022 at 2.00pm

From: HODIT <hodit@jkkmct.edu.in> Date: Mon 14 Feb 2022 at 2.00pm Subject: Internship -reg  
To: DURGATECH <kiruthikan@durgatech.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 following students:

**(A.AJAYSRI, M.DHARANI, A.PARVATHY, S.GOKUL, N.RAVISANKARAN, N.SIVABALAJI)**

Sincerely,

2 nd 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

Tue 15 Feb 2022 at 3.30 pm

From: DURGATECH <kiruthika@durgatech.com>

Date: Tue 15 Feb 2022 at 3.30 pm

Subject: Internship-reg

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

Dear sir,


I am writing to confirm my acceptance of your internship offer of 21.02.2022 to 25.02.2022 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 FEBRUARY 21.02.2022 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

**(A.AJASRI, M.DHARANI, A.PARVATHY, S.GOKUL, N.RAVISANKARAN, N.SIVABALAJI)**

Sincerely,  
HR Manager,  
Durga Tech,  
Erode.

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

Since 2009



Date : 25.02.2022

This is to certify that A. AjaySri Reg.No: 131220205001 in B.Tech(CIT) II year student of JKK Munirajah College of Technology, Gobli has completed the Internship/In-plant Training under the Web Development in Durga Tech from: 21.2.22 to 25.2.22

During this Internship/In-plant Training A. AjaySri 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 A. AjaySri success in her/his future endeavors in her/his career.

Thanking You

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

109, MR Complex, Nehru Street, Ram Nagar,  
Gandhipuram, Coimbatore - 641009.  
Ph : 99449 16107



*Sreedh*

PRINCIPAL

JKK MUNIRAJAH COLLEGE  
OF TECHNOLOGY

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

Since 2009



Date : 25.02.2022

This is to certify that M. Dharani Reg.No: 731220205006 in BTech(IT) II year student of JKKMunirajah College of Technology, Gobi has completed the Internship/In-plant Training under the Web Development in Durga Tech from 21.2.22 to 25.2.22

During this Internship/In-plant Training M. Dharani 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 M. Dharani success in her/his future endeavors in her/his career.

Thanking You

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

109, MR Complex, Nehru Street, Ram Nagar,  
Gandhipuram, Coimbatore - 641009.  
Ph : 99449 16107



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

Since 2009



Date : 25.02.2022

This is to certify that S. Gokul Reg.No: 731220205009 in BTEch(IT) II  
year student of JKK Munirajah College of Technology, Gobi has completed the  
Internship/~~In-plant~~ Training under the Web Development in Durga Tech from 21.2.22 to 25.2.22

During this Internship/~~In-plant~~ Training S. Gokul 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 S. Gokul success in her/his future endeavors in her/his career.

Thanking You

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

109, MR Complex, Nehru Street, Ram Nagar,  
Gandhipuram, Coimbatore - 641009.  
Ph : 99449 16107



*Sreedh*

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

Since 2009

Date : 25.02.2022



This is to certify that A. Parvathy Reg.No: 131220205017 in B-TECH(IT) II year student of JKK Munirajah College of Technology, Golbi has completed the Internship/In-plant Training under the Web Development in Durga Tech from 21.2.22 to 25.2.22

During this Internship/In-plant Training A. Parvathy 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 A. Parvathy success in her/his future endeavors in her/his career.

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

Thanking You

A handwritten signature in green ink, appearing to read 'Sreedh', is written over the printed name of the principal.

**PRINCIPAL**  
**JKK MUNIRAJAH COLLEGE**  
**OF TECHNOLOGY**  
**F.N. PALAYAM (P6)-638 508.**

109, MR Complex, Nehru Street, Ram Nagar,  
Gandhipuram, Coimbatore - 641009.  
Ph : 99449 16107



Since 2009

Date : 25.02.2022



This is to certify that N. Ravisankaran Reg.No: 731220205020 in BTech(IT) II year student of JKKMunirajah College of Technology, Gobi has completed the Internship/In-plant Training under the Web Development in Durga Tech from 21.2.22 to 25.2.22

During this Internship/In-plant Training N. Ravisankaran 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 N. Ravisankaran success in her/his future endeavors in her/his career.

Thanking You

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

109, MR Complex, Nehru Street, Rani Nagar,  
Gandhipuram, Coimbatore - 641009.  
Ph : 99449 16107



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

Since 2009

Date : 25.02.2022



This is to certify that N. Sivabalaji Reg.No: 731220205022 in B.Tech(IT) II year student of JKK Munirajah College of Technology, Gobi has completed the Internship/In-plant Training under the Web Development in Durga Tech from 21.2.22 to 25.2.22

During this Internship/In-plant Training N. Sivabalaji 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 N. Sivabalaji success in her/his future endeavors in her/his career.

Thanking You

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

109, MR Complex, Nehru Street, Ram Nagar,  
Gandhipuram, Coimbatore - 641009.  
Ph : 99449 16107



A handwritten signature in green ink, appearing to read 'Sreedh'.

**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.

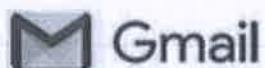
T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



## INTERNSHIP DETAILS2021-22

SI.NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731220205018	S.PRIYANKA	LITZ TECH	COIMBATORE	21.02.2022
2	731220205303	C.SHILPA			to

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



## Internship

1 message

Mon 14 Feb 2022 at 2.00pm

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

Date: Mon 14 Feb 2022 at 2.00pm

Subject: Internship-reg

To: LITZTECH <karthik21@litztech.com>

Dear Sir,

I am requesting to be joining your **LITZ 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: **(S.PRIYANKA,C.SHILPA)**

Sincerely,

2 nd 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

Tue 15 Feb 2022 at 3.30 pm

From: LITZ TECH<karthik21@litztech.com>

Date: Tue 15 Feb 2022 at 3.30 pm

Subject: Internship-reg

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

Dear Sir,


I am writing to confirm my acceptance of your internship offer of 21.02.2022 to 25.02.2022 and to tell you how to be joining my **LITZ 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 **FEBRUARY 21.02.2022** 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: (**S.PRIYANKA, C.SHILPA**)

Sincerely,

HRManager,  
Litz Tech,  
Coimbatore.

  
**PRINCIPAL**  
**JKK MUNIRAJAH COLLEGE**  
**OF TECHNOLOGY**  
**T.N. PALAYAM (Po)-628 506**  
**GOBI (Tk), ERODE (D.)**



**Internship**

1 message

Mon 14 Feb 2022 at 2.00pm

From:

SAMBATHKUMAR<sambathkumara@jkkmct.edu.i

n>

Date: Mon 14 Feb 2022 at 2.00pm

Subject: Internship-reg

To: LITZTECH<karthik21@litztech.com>

Dear Sir,

I am requesting to be joining your **LITZ 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: **(S.PRIYANKA,C.SHILPA)**

Sincerely,

2 nd 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

---

Tue 15 Feb 2022 at 3.30 pm

From: LITZ TECH<karthik21@litztech.com>

Date: Tue 15 Feb 2022 at 3.30 pm

Subject: Internship-reg

To: SAMBATHKUMAR<sambathkumara@jkkmct.edu.in>

Dear Sir,


I am writing to confirm my acceptance of your internship offer of 21.02.2022 to 25.02.2022 and to tell you how to be joining my **LITZ 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.

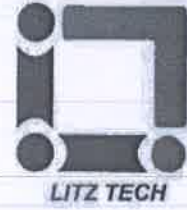
As we discussed, I will report at 8:00 a.m. on **FEBRUARY 21.02.2022** and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: (**S.PRIYANKA, C.SHILPA**)

Sincerely,

HRManager,  
Litz Tech,  
Coimbatore.

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



## Certificate of Training and Instruction

This is to certify that **PRIYANKA S (731220205018)** a student  
Of **“J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY”**  
has successfully completed her  
**INTERNSHIP PROGRAM in ANDROID APP DEVELOPMENT**  
at our Concern from **21.02.2022 to 25.02.2022**

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



**Authorized Signatory**

STUDENT ID: LITZH22898

CERTIFICATE ID: LITZH22899

No 4, Arangasamy Nagar, Sitra, Civil Aerodrome(po),Coimbatore - 641014

www.litztech.in | coimbatore@litztech.in | Tei : 0422 4382930



## Certificate of Training and Instruction

This is to certify that **SHILPA C (731220205303)** a student  
Of **“J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY”**  
has successfully completed her  
**INTERNSHIP PROGRAM in ANDROID APP DEVELOPMENT**  
at our Concern from **21.02.2022 to 25.02.2022**



PRINCIPAL

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

Authorized Signatory

STUDENT ID: LITZH22898

CERTIFICATE ID: LITZH22899

No 4, Arangasamy Nagar, Sitra, Civil Aerodrome(po),Coimbatore - 641014

www.litztech.in | coimbatore@litztech.in | Tei : 0422 4382930