



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



MASTER OF COMPUTER SCIENCE AND ENGINEERING

2021-2022

S.NO	REG.NO	STUDENT NAME	PROJECT	INTERNSHIP	FIELD VISIT
1	731220405001	ANUKRISHNAN K R	✓		
2	731221405001	ARUNKUMAR R		✓	
3	731221405002	CHARLY S		✓	
4	731221405005	GAYATHRI S		✓	
5	731221405006	INDHIRAN R		✓	
6	731221405007	LOGARAJA S		✓	
7	731221405008	NAVEEN S		✓	
8	731221405009	PONMANI A		✓	
9	731221405010	RAJESH KUMAR A		✓	
10	731221405011	RANJANI R		✓	
11	731221405014	SURESHKUMAR P		✓	

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DEPARTMENT OF MASTER OF COMPUTER SCIENCE AND ENGINEERING

PROJECT BATCH LIST (2021-2022)

S.NO	REGISTER NO	NAME LIST	PROJECT TITLE	GUIDE NAME
1	731220405001	ANUKRISHNAN K R	CANCERNET CLASSIFIER BREAST CANCER CLASIFICATION USING DEEP LEARNING NETWORKS	Mrs.M.C.SAVITHRI

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**CANCERNET CLASSIFIER FOR BREAST CANCER
CLASSIFICATION USING DEEP NEURAL NETWORKS**

A PROJECT REPORT(PHASE-II)

Submitted by

ANUKRISHNAN K R

731220405001

in partial fulfillment for the award of the degree of

MASTER OF ENGINEERING

in

COMPUTER SCIENCE AND ENGINEERING



JKK MUNIRAJAH COLLEGE OF TECHNOLOGY,

T.N. PALAYAM, GOBI-638 506.

ANNA UNIVERSITY: CHENNAI 600025

SEPTEMBER 2022

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ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

Certified that this Report titled "CANCERNET CLASSIFIER FOR BREAST CANCER CLASSIFICATION USING DEEP NEURAL NETWORKS" is the bonafide work of "ANUKRISHNAN K R (731220405001)" who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.



SIGNATURE

HEAD OF THE DEPARTMENT

Dr.N.SATHYABALAJI, M.E., Ph.D
Associate Professor,

**Dept.of Computer Science and
Engineering**

J.K.K Munirajah College of Technology,

T.N.Palayam.



SIGNATURE

SUPERVISOR

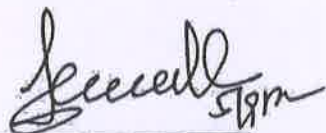
Dr.N.SATHYABALAJI, M.E., Ph.D
Associate Professor,

**Dept.of Computer Science and
Engineering**

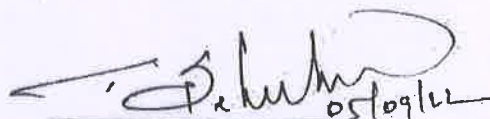
J.K.K Munirajah College of Technology,

T.N.Palayam.

Submitted for the Project Viva-voce Examination held on...05-09-2022.....



INTERNAL EXAMINER



EXTERNAL EXAMINER



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ACKNOWLEDGEMENT

I express my sincere thanks and grateful acknowledgement to our chairman **Dr. J.K.K. MUNIRAJAH M. TECH (Bolton), D.Litt.**, for providing all facilities during the course of study in this college.

I would like to express our thanks to our secretary madam **Mrs. KASTHURIPRIYA RUPAKARMURALI M.B.A.**, who has provided all the available facilities and support that has helped us in the completing our project.

I have immense pleasure in expressing my extreme gratitude thanks to our beloved principal **Dr. K. SRIDHARAN M.E., MBA., Ph.D., M.I.S.T.E.**, for his encouragement and support.

I wish to express my heartfelt thanks to our respectful Head of the Department **Dr. N. SATHYABALAJI M.E., M.I.S.T.E., Ph.D.**, for his inspiring help, guidance, effort and energy in the right direction for completing this project.

I am privileged to thank our project coordinator **Dr. N. SATHYABALAJI M.E., M.I.S.T.E., Ph.D.**, for his enlightening thoughts and remarkable guidance that helped us in the successful completion of our project.

I also thank my guide **Mrs. M.C. SAVITHRI M.E.**, who has been a driving force to unveil the immense talents in us.

I sincerely thank my lovable parents for their motivation and great support to complete this project successfully.

I also thank all teaching and non-teaching staffs of the Department of Computer Science and Engineering and all my friends for their help and support to complete this project successfully.



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ABSTRACT

Accurate breast cancer detection using automated algorithms remains a problem within the literature. Although a plethora of work has tried to address this issue, an exact solution is yet to be found. This problem is further exacerbated by the fact that most of the existing datasets are imbalanced, i.e. the number of instances of a particular class far exceeds that of the others. In this project, I will propose a framework based on the notion of transfer learning to address this issue and focus our efforts on histopathological and imbalanced image classification. I will use the popular VGG-19 as the base model and will complement with several state-of-the-art techniques to improve the overall performance of the system. With the ImageNet dataset taken as the source domain, I will apply the learned knowledge to the target domain consisting of histopathological images.



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சுருக்கம்

தன்னியக்க வழிமுறைகளைப் பயன்படுத்தி மார்க்பப்
 ிற்றுநோயைத் துல்லியமாகக் கண்டறிவது இலக்கியத்திற்குள் ஒரு
 ரிர்ச்சனையாகவே உள்ளது. இந்த சிக்கலை தீர்க்க பல முயற்சிகள்
 மற்கொள்ளப்பட்டாலும், சரியான தீர்வு இன்னும்
 ிண்டுபிடிக்கப்படவில்லை. தற்போதுள்ள தரவுத்தொகுப்புகளில்
 ிபரும்பாலானவை சமநிலையற்றவை, அதாவது ஒரு குறிப்பிட்ட
 ிகுப்பின் நிகழ்வுகளின் எண்ணிக்கை மற்றவற்றை விட அதிகமாக
 ிருப்பதால் இந்தச் சிக்கல் மேலும் அதிகரிக்கிறது. இந்தத் திட்டத்தில்,
 ிந்தச் சிக்கலைத் தீர்ப்பதற்கும், ஹிஸ்டோபோதாலஜிக்கல் மற்றும்
 ிமநிலையற்ற பட வகைப்பாட்டில் எங்கள் முயற்சிகளை
 மையப்படுத்துவதற்கும் பரிமாற்றக் கற்றல் என்ற கருத்தின்
 ிடிப்படையில் ஒரு கட்டமைப்பை நான் முன்மொழிகிறேன். நான்
 ிரபலமான VGG-19 ஐ அடிப்படை மாதிரியாகப் பயன்படுத்துவேன்,
 ிமலும் கணினியின் ஒட்டுமொத்த செயல்திறனை மேம்படுத்த பல
 ிதிநவீன நுட்பங்களுடன் அதை நிரப்புவேன். இமேஜ்நெட்
 ிரவுத்தொகுப்பை மூல டொமைனாக எடுத்துக் கொண்டு,
 ஹிஸ்டோபோதாலஜிக்கல் படங்களைக் கொண்ட இலக்கு களத்தில்
 கற்ற அறிவைப் பயன்படுத்துவேன்.



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CHAPTER 10

CONCLUSION

1 Conclusion

In this work, we will try to classify large-scale histopathological images using automated machine-driven procedures. The main problem of this task is that the dataset was highly imbalanced. To address this issue, we will use the paradigm of transfer learning and train the existing VGG-19 on more than a million ImageNet images before applying the learned knowledge to the dataset of histopathological images. The model will be further enhanced with different classification methods at the output layer. The performance of the model will be analysed using Precision, Recall, F1-score etc. Furthermore, the classification performance of the technique will be compared with existing frameworks.

In the first phase of the project, completed the literature survey. Identified the drawback/limitations of the existing work on cancer detection and classification. Based on literature survey new automatic screening system using two deep neural network architecture for breast cancer classification is proposed.

In the next phase of the project the detection and classification of cancer using the proposed new automatic screening system with two deep neural network architectures is implemented and the performance analysis of the model was evaluated.


In the third phase of the project, Breast cancer detection is implemented from histopathology images. We employed a system architecture with segmentation, feature extraction and classification. Various CNNs and segmentation methods are experimented to achieve maximum performance of the model. VGG with and without segmentation achieves a precision score of 100%, Densenet with and without segmentation achieves a recall score of 100%. Maximum F1-score is obtained when the system utilizes VGG model with U-NET segmentation.



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APPENDIX-3
Paper Publication Proof



**INTERNATIONAL JOURNAL OF NOVEL RESEARCH
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An International Open Access, Peer-reviewed, Refereed Journal
ISSN : 2456-4184

The Board of
International Journal of Novel Research and Development
is hereby awarding this certificate to
Anu Krishnan K R

In recognition of the publication of the paper entitled
**Cancer Classifier for Breast Cancer Classification Using Deep Neural
Networks and U-NET segmentation**

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INTERNSHIP DETAILS 2021-22

SI.NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731221405008	NAVEEN.S	QTREE SOLUTIONS	COIMBATORE	14.11.2022 to 27.11.2022
2	731221405009	PONMANI.A			
3	731221405010	RAJESHKUMAR.A			
4	731221405011	RANJANI.R			
5	731221405014	SURESHKUMAR.P			

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GOBI (TK), ERODE (DT).



Internship

1 message

Mon, Nov 07 2022 at 2.00 PM

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

Date: Mon, Nov 07 2022 at 2.00 PM

Subject: Internship - reg

To: QTREE TECHNOLOGIES<sherinmohan@qtree.com>

Dear Sir/Madam,

On behalf of our institution J K K Munirajah College of Technology our student studying in M.E – Computer Science and Engineering department. As part of their course, they have to undergo internship training for a period of Fourteen days from 14.11.2022 to 27.11.2022. They wish to undergo training in your company and your kind gesture to offer them to do training will be very helpful for their academic. This training will boost their confidence and prospects. So I request you to grant them permission to undergo training. They promise to abide by the rules and regulations of your company.

Students Name List

- 1)NAVEEN.S
- 2)PONMANI.A
- 3)RAJESHKUMAR.A
- 4)RANJANI.R
- 5)SURESHKUMAR.P

Thanking You,

PRINCIPAL
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GOBI (TK), ERODE (Dt).

Yours Truly,

HOD /CSE DEPARTMENT



Internship Training

1 message

TUE, 08 Nov 2022 at 11.00 AM

From: QTREE TECHNOLOGIES<sherinmohan@qtree.com>

Date: TUE, 08 Nov 2022 at 11.00 AM

Subject: Internship Training Confirmation - reg

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

Dear Sir,


On behalf of Blazon Solutions, we would like to notify you of this opportunity for an internship. On your acceptance of this offer, you can continue an internship with the company on from 14/11/2022 to 27/11/2022. We assure you that the details of your particulars we have collected during your program should be saved in our convert privately. We appreciate your interest in our company. The following students are instructed to make their presence at the administrative office on 14.11.2022 at 9.00 AM. The students must follow proper dress code inside the company and should maintain the discipline as per the norms of the company.

The student's names are

- 1)NAVEEN.S
- 2)PONMANI.A
- 3)RAJESHKUMAR.A
- 4)RANJANI.R
- 5)SURESHKUMAR.P

We wish them for their successful training.

With Regards,
HR,
BLAZON SOLUTIONS.


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



QTREE TECHNOLOGIES

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

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.NAVEEN S**, studying M.E.,Computer Science and Engineering in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed **Internship Program** from **14.11.2022 to 27.11.2022** at **Q-TREE technologies**
During the **Internship**, him Performance was good.



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

PROJECT MANAGER

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

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This is to certify that **Mr.SURESHKUMAR P**, studying M.E.,Computer Science and Engineering in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed **Internship Program** from **14.11.2022 to 27.11.2022** at **Q-TREE technologies**
During the **Internship**, him Performance was good.



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

PROJECT MANAGER

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

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GOBI (Tk), ERODE (Dt).



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TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.PONMANI A**, studying M.E.,Computer Science and Engineering in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed **Internship Program** from **14.11.2022 to 27.11.2022** at **Q-TREE technologies**
During the **Internship**, her Performance was good.



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

PROJECT MANAGER

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

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GOBI (Tk), ERODE (Dt).



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TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.RAJESH KUMAR A**, studying M.E.,Computer Science and Engineering in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed **Internship** Program from **14.11.2022 to 27.11.2022** at **Q-TREE technologies** During the **Internship**, him Performance was good.



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

PROJECT MANAGER

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

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TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.RANJANI R**, studying M.E.,Computer Science and Engineering in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed **Internship Program** from **14.11.2022 to 27.11.2022** at **Q-TREE technologies**. During the **Internship**, her Performance was good.




PROJECT MANAGER



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GOBI (Tk), ERODE (Dt).



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

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.SATHISH KUMAR V**, studying M.E.,Computer Science and Engineering in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed **Internship Program** from **14.11.2022 to 27.11.2022** at **Q-TREE technologies**.
During the **Internship**, his Performance was good.



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

PROJECT MANAGER

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

PRINCIPAL

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2	731221405002	CHARLY.S			
3	731221405005	GAYATHRI.S			
4	731221405006	INDHIRAN.R			
5	731221405007	LOGARAJA.S			

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GOBI (TK), ERODE (DT).



Internship

1 message

Mon, Nov 07 2022 at 3.00 PM

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

Date: Mon, Nov 07 2022 at 3.00 PM

Subject: Internship - reg


To: BLAZON SOLUTIONS< sivaraj24@gmail.com>

Dear Sir/Madam,

On behalf of our institution J K K Munirajah College of Technology our student studying in M.E – Computer Science and Engineering department. As part of their course, they have to undergo internship training for a period of Fourteen days from 14.11.2022 to 27.11.2022. They wish to undergo training in your company and your kind gesture to offer them to do training will be very helpful for their academic. This training will boost their confidence and prospects. So I request you to grant them permission to undergo training. They promise to abide by the rules and regulations of your company.

Students Name List

- 1) ARUNKUMAR.R
- 2) CHARLY.S
- 3) GAYATHRI.S
- 4) INDHIRAN.R
- 5) LOGARAJA.S


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Thanking You,

Yours Truly,
HOD CSE DEPARTMENT



Internship Training

1 message

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Dear Sir,

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The student's names are

- 1) ARUNKUMAR.R
- 2) CHARLY.S
- 3) GAYATHRI.S
- 4) INDHIRAN.R
- 5) LOGARAJA.S

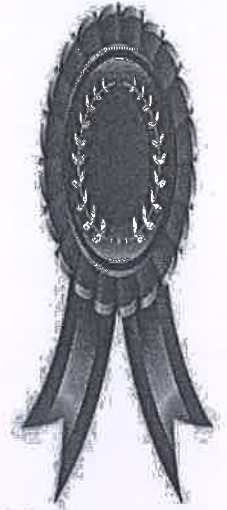
We wish them for their successful training.

With Regards,
HR,
BLAZON SOLUTIONS.


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GOBI (TK), ERODE (D)

BLAZON

SMALL THINGS MAKE A BIG DIFFERENCE



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This is to certify that **Mr. LOGARAJA S**, studying M.E., Computer Science and Engineering in **J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed **Internship Program** from **14.11.2022 to 27.11.2022** at **BLAZON Solution**.

During the Internship, his Performance was good.

Managing Director

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GOBI (TK), ERODE (Dt).

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This is to certify that **Mr.INDHIRAN R**, studying M.E., Computer Science and Engineering in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed **Internship Program** from **14.11.2022 to 27.11.2022** at **BLAZON Solution**.

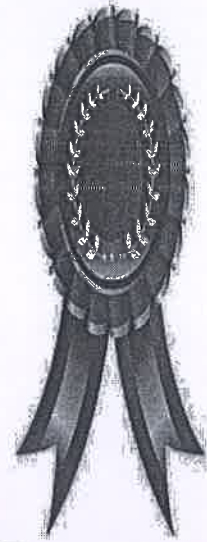
During the Internship, his Performance was good.

Managing Director

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

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SMALL THINGS MAKE A BIG DIFFERENCE



TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.GAYATHRI S**, studying M.E., Computer Science and Engineering in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed **Internship Program** from **14.11.2022 to 27.11.2022** at **BLAZON Solution**.

During the Internship, her Performance was good.

Managing Director

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This is to certify that **Ms.CHARLY S**, studying M.E., Computer Science and Engineering in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed **Internship Program** from **14.11.2022 to 27.11.2022** at **BLAZON Solution**.

During the Internship, her Performance was good.

Managing Director

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This is to certify that **Mr. ARUNKUMAR R**, studying M.E., Computer Science and Engineering in **J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed **Internship Program** from **14.11.2022** to **27.11.2022** at **BLAZON Solution**.

During the Internship, his Performance was good.

Managing Director

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