

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “INTEGRATED HEALTH DETECTION MODEL BY MACHINE LEARNING INSIGHTS FOR HEART DISEASE, DIABETES AND PARKINSON'S” is the bonafide work of “ LANTHOIBA KHOIROM (963320106064), SARAVANA UDAIYAR.S (963320106097), SEENIVASAN.P (963320106100), SUBANESH KUMAR S (963320106110)” who carried out the project work under my supervision.



**SIGNATURE**

Dr. JASMINE J.C SHEEJA M.E., Ph.D.,

**HEAD OF THE DEPARTMENT**

Associate Professor

Department of Electronics and  
communication Engineering

Rohini College of Engineering and  
Technology, Palkulam.



**SIGNATURE**

Dr.M.REJI M.E., Ph.D.,

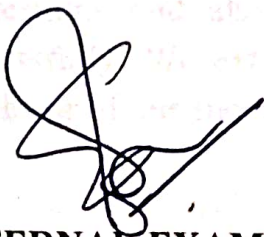
**SUPERVISOR**

Associate Professor

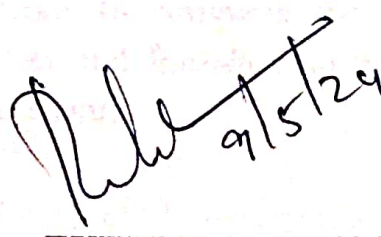
Department of Electronics and  
communication Engineering

Rohini College of Engineering  
and Technology, Palkulam.

Submitted for the Project Viva-voce examination held on 09.05.2024 at  
Rohini college of Engineering and Technology, Palkulam



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

ANNA UNIVERSITY : CHENNAI 600 025

## BONAFIDE CERTIFICATE

Certified that this project report “SPONTANEOUS SOLAR ENERGY  
BASED GLOOMY ROOM LUMEN USING CONVEX LENSES  
THROUGH IMPLANTED CONTROLLER” is the bonafide work of  
“KRISHNA S.J (963320106063), MOHAMMED SIDDIQ.M.S  
(963320106070), NAASIF.N (963320106073), PRATHEESH.S  
(963320106083) who carried out the project work under my  
supervision.



**SIGNATURE**

**Dr. JASMIN.J.C.SHEEJA**

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Kanyakumari-629701



**SIGNATURE**

**Dr.SUDARSON RAMAPERUMAL.T  
SUPERVISOR**

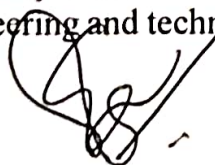
**Associate Professor**

Department of Electronics and  
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Kanyakumari-629701

University Practical Viva-Voce held on .....9.15.2024.....at Rohini college of  
engineering and technology



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

## BONAFIDE CERTIFICATE

Certified that this project report in “AUTOMATIC DUAL AXIS SOLAR TRACKER WITH IOT” is the work of “PEARSON.R(963320106081) , PON VASANTH.V (963320106082),SUJITH KUMAR.R( 963320106117), YOGESH.G(963320106310) ” who carried out the project work under my supervision.

**SIGNATURE**

**Dr.Jasmine J.C.Sheeja,M.E.,Ph.D.,**

**HEAD OF THE DEPARTMENT**

**Professor & Head**

**Department of Electronics and**

**Communication Engineering**

**Rohini College of Engineering &**

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**Palkulam,Variyoor(Post)**

**Kanyakumari-629 401**

University Practical Viva-Voice Examination held on.....9/15/24.....

at Rohini College of Engineering & Technology, Palkulam .

**INTERNAL EXAMINER**

**SIGNATURE**

**Mr.R.Venkadesh.M.E,**

**SUPERVISIOR**

**Associate Professor**

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**Communication Engineering**

**Rohini College of Engineering &**

**Technology**

**Palkulam,Variyoor(Post)**

**Kanyakumari-629 401**

**EXTERNAL EXAMINER**

## BONAFIDE CERTIFICATE

Certified that this project report "VEHICLE TO VEHICLE COMMUNICATION BETWEEN ON-ROAD VEHICLES USING LORA MODULE" is the bonafide work of "SARAN (963320106096),SIVA PADMESH (963320106105), SHAJU (963320106101), SAJU WILSON (963320106091) " who carried out the project work under my supervision.



**SIGNATURE**

Dr. JASMINE J.C SHEEJA

**HEAD OF THE DEPARTMENT**

Associate Professor

Department of Electronics and  
communication Engineering  
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**SIGNATURE**

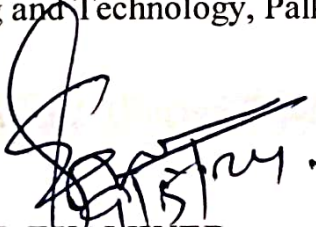
Mr. S.SOBAN

**SUPERVISOR**

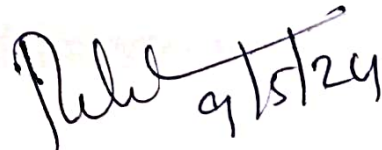
Assistant Professor

Department of Electronics and  
communication Engineering  
Rohini College of Engineering  
and Technology, Palkulam.

Submitted for the Project Viva-voce examination held on 09/05/24 at Rohini college of Engineering and Technology, Palkulam



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

## BONAFIDE CERTIFICATE

Certified that this project report “AUTOMATIC IDENTIFICATION OF FRUIT RIPENESS AND DISEASE DETECTION USING DNN” is the bonafide work of “K.J.SIVAPRAKASH (963320106106), K.SUDHAN(963320106116), S.VENKADESH (963320106124), S.M.THANUMALAYAN (963320106308)” who carried out the project work under my supervision.



**SIGNATURE**

**Dr. Jasmine J.C Sheeja M.E., Ph.D.**

**HEAD OF THE DEPARTMENT**

Associate and Head

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Engineering

Rohini College of Engineering

And Technology, Palkulam.



**SIGNATURE**

**Mr.R.V.NAGRAJAN M.E.**

**SUPERVISOR**

Assistant Professor

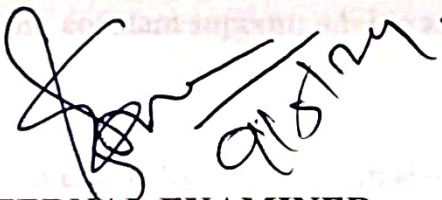
Department of Electronics and

Communication Engineering

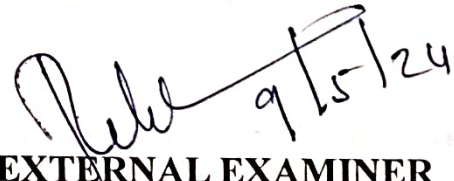
Rohini College of Engineering

And Technology, Palkulam.

**Submitted for the Project Viva-voice examination held on ...09... MAY 2024.**



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “IOT-BASED SMART VEHICLE MANAGEMENT SYSTEM” is the bonafide work of “ SAJIN.P (963320106090), VENKETESHWARAN.K (963320106125), VINITH.T (963320106126)” who carried out the project work under my supervision.



**SIGNATURE**

Dr. JASMINE J.C SHEEJA,M.E.,Ph.D.

**HEAD OF THE DEPARTMENT**

ASSOCIATE PROFESSOR

Department of Electronics and  
communication Engineering

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Technology, Palkulam.



**SIGNATURE**

Dr.SUDHARSON RAMA  
PERUMAL,M.E.,Ph.D.

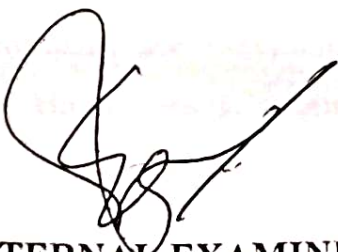
**SUPERVISOR**

ASSOCIATE PROFESSOR

Department of Electronics and  
communication Engineering

Rohini College of Engineering  
and Technology, Palkulam.

Submitted for the Project Viva-voce examination held on ..... at Rohini  
college of Engineering and Technology, Palkulam



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “**DIGITAL CARDIOXYTHERMAL MONITORING SYSTEM**” is the bonafide work of “**S. REBIN (963320106088), R. RUBAN (963320106089), M.G. SURYA KUMAR (963320106119)**” who carried out the project work under my supervision.



**SIGNATURE**

**Dr. JASMINE J.C SHEEJA**

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Associate Professor

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Rohini College of Engineering and  
Technology, Palkulam.



**SIGNATURE**

**Mr. R.V. NAGARAJAN**

**SUPERVISOR**

Assistant Professor

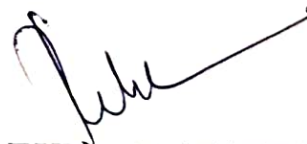
Department of Electronics and  
Communication Engineering

Rohini College of Engineering and  
Technology, Palkulam.

Submitted for the Project Viva-voce examination held on 09.05.24... at Rohini college of Engineering and Technology, Palkulam, Kanyakumari.



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “STEREO DEPTH PERCEPTION WITH STTR AND PSMNET FOR ENHANCED NAVIGATION AND SAFETY” is the bonafide work of “SAMUEL GEFREY V (963320106092), SHANE NITHEESH M (963320106102), VIJAY KUMAR SH (963320106132)” who carried out the project work under my supervision.



**SIGNATURE**

Dr. JASMINE J.C SHEEJA. M.E.,Ph.D.

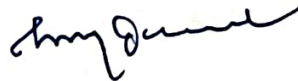
**HEAD OF THE DEPARTMENT**

Associate Professor &Head

Department of Electronics and  
communication Engineering

Rohini College of Engineering and  
Technology, Palkulam.

Kanyakumari- 629401



**SIGNATURE**

Dr. JACKSON DANIEL. M.Tech.,Ph.D.

**SUPERVISOR**

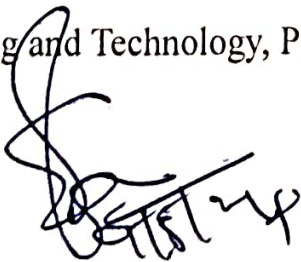
Professor

Department of Electronics and  
communication Engineering

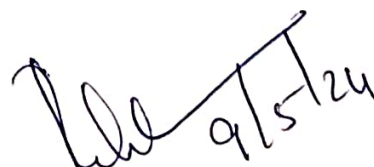
Rohini College of Engineering  
and Technology, Palkulam.

Kanyakumari- 629401

Submitted for the Project Viva-voce examination held on 9/5/24 at Rohini college of Engineering and Technology, Palkulam



**INTERNAL EXAMINER**



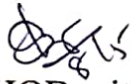
**EXTERNAL EXAMINER**



# ANNA UNIVERSITY: CHENNAI 600 025

## BONAFIDE CERTIFICATE

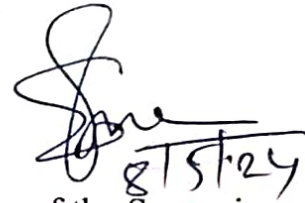
Certified that this project report “**BRAIN TUMOR CLASSIFICATION AND DETECTION USING DEEP LEARNING**” is the bonafide work of “**P.LISHA(963320106067), P.V.NISHA(963320106076), M.J.PRIYA THARSHINI(963320106084), S.SANTHANA MARI(963320106095)**” who carried out the project work under my supervision.



Signature of the HOD with Date

**Dr.JASMINE J C SHEEJA,  
M.E.,Ph.D.,**

Associate Professor and Head  
Department of Electronics and  
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Rohini College of Engineering  
and Technology  
Palkulam, Variyoor-629401  
Kanyakumari District, Tamilnadu.



Signature of the Supervisor with Date

**Dr.E.SREE DEVI, M.E.,Ph.D.,**

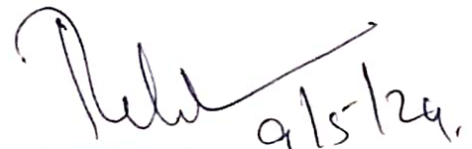
Professor

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Rohini College of Engineering  
and Technology  
Palkulam, Variyoor-629401  
Kanyakumari District, Tamilnadu.

Submitted for the Project viva-voce examination held on ....9.5.24..... at  
**Rohini College of Engineering & Technology.**



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

ANNA UNIVERSITY : CHENNAI 600 025

**BONAFIDE CERTIFICATE**

Certified that this project report “BONE FRACTURE DETECTION WITH DEEP LEARNING” is the work of “SURUTHI.S (963320106118), SUBASRI.S (963320106111) , MUFITHA.M (963320106071), RAJA LEKSHMI.S (963320106085)”who carried out project work under my supervision.



**SIGNATURE**

**Dr.JASMINE J C SHEEJA .M.E.,Ph.D.,**

**HEAD OF THE DEPARTMENT**

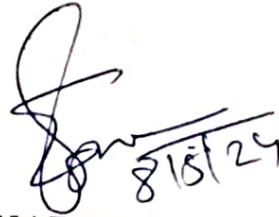
Associate Professor and Head

Department of Electronics and  
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Rohini college of engineering &  
Technology ,

Palkulam, Variyoor (post)

Kanyakumari – 629 401 .



**SIGNATURE**

**Dr.E.SREE DEVI.M.E.,Ph.D.,**

**SUPERVISOR**

Professor

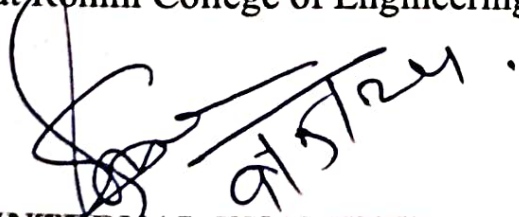
Department of Electronics and  
Communication Engineering

Rohini college of engineering &  
Technology ,

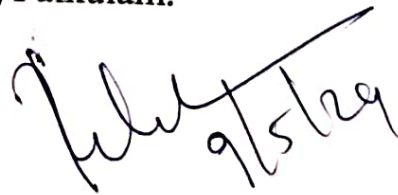
Palkulam, Variyoor (post)

Kanyakumari – 629 401 .

University Project Viva-Voce Examination held on ..09..05..2024.....  
at Rohini College of Engineering & Technology, Palkulam.



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report in " SKIN CANCER DETECTION USING DEEP LEARNING WITH DENSENET ALGORITHM" is the work of "SOUTHAMINI.A(9633201060109)" who carried out the project work under my supervision.



SIGNATURE

DR.JASMINE J C SHEEJA .M.E.,Ph.D.,

HEAD OF THE DEPARTMENT

Professor and head

Department of Electronics And

Communication Engineering

Rohini college of engineering &

Technology ,

Palkulam, Variyoor (post)

Kanyakumari – 629 401 .



SIGNATURE

DR.SUBOTHA.SP.,

SUPERVISOR

Professor

Department of Electronics And

Communication Engineering

Rohini college of engineering &

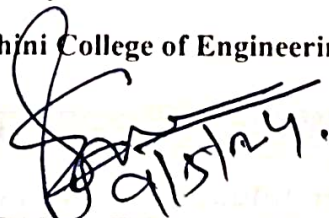
Technology ,

Palkulam, Variyoor (post)

Kanyakumari – 629 401 .

University Practical Viva-Voice Examination held on ....09.05....2024..

at Rohini College of Engineering & Technology, Palkulam.



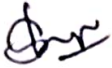
INTERNAL EXAMINER



EXTERNAL EXAMINER

## BONAFIDE CERTIFICATE

Certified that this project report "MACHINE LEARNING BASED MYELIN QUANTIFICATION USING MRI" is the work of "MARY ROSEMI.J (963320106068), SASI DEVI.G (963320106098), VEESHMA.P (963320106123)" who carried out the project work under my supervision.



SIGNATURE

Dr. Jasmine J.C. Sheeja, M.E., Ph.D.,

HEAD OF THE DEPARTMENT

Associate Professor & Head

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Kanyakumari – 629 401.



SIGNATURE

Dr. Sumi M.S.M.E., Ph.D.,

SUPERVISOR

Associate Professor

Department of Electronics and

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Rohini College of Engineering &

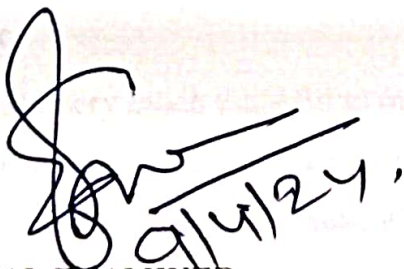
Technology

Palkulam, Variyoor (Post)

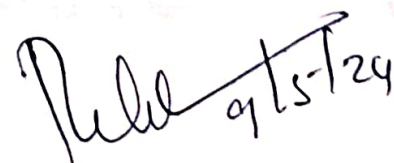
Kanyakumari – 629 401.

University Practical Viva – Voce Examination held on ...09-05-2024.

at Rohini College of Engineering & Technology, Palkulam.



INTERNAL EXAMINER



EXTERNAL EXAMINER

## BONAFIDE CERTIFICATE

Certified that this project report “BREAST CANCER DETECTION USING DEEP LEARNING” is the bonafide work of “P. SUBITHA (963320106114), E. SATHYA (963320106099), R. SANDHYA (963320106093), C. PAVITHRA (963320106079)” who carried out the project work under my supervision



SIGNATURE

Dr. JASMINE.J.C. SHEEJA.ME.Ph.D.,

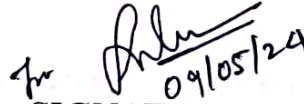
HEAD OF THE DEPARTMENT

ASSOCIATE AND HEAD

Department of Electronics and Communication  
Engineering

Rohini College of Engineering

And Technology, Palkulam.



SIGNATURE

MS. NISHA G KRISHNAN.ME

SUPERVISOR

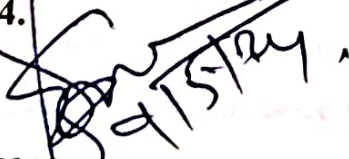
ASSISTANT PROFESSOR

Department of Electronics and  
Communication Engineering

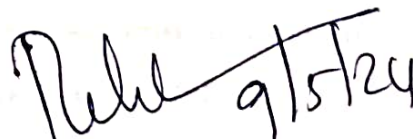
Rohini College of Engineering

And Technology, Palkulam.

Submitted for the Project Viva-voice examination held on ...09... MAY  
2024.



INTERNAL EXAMINER



EXTERNAL EXAMINER

ANNA UNIVERSITY : CHENNAI 600 025

**BONAFIDE CERTIFICATE**

Certified that this project "AUTOMATED CLASSIFICATION OF ALZHIEMERS DISEASE USING SINGLE MRI BY DEEP NEURAL NETWORKS ALGORITHM " is the bonafide work of "S.LAVANYA (963320106066), S.MATHUMITHA (963320106069), S.NAZIKA BANU (963320106074) M.PAVITHRA DEVI (963320106080)" who carried out the project work under my supervision .



**SIGNATURE**

**DR.JASMINE J.C.SHEEJA, M.E.,Ph.D., DR.R.SOWMIYA,M.E.,Ph.D.,**

**HEAD OF THE DEPARTMENT**

Associate Professor

Department of Electronics and

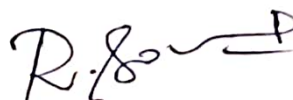
Communication Engineering

Rohini College of Engineering and

Technology

Palkulam,Variyoor(Post)

Kanyakumari 629 401



**SIGNATURE**

**SUPERVISOR**

Assistant Professor

Department of Electronics and

Communication Engineering

Rohini College of Engineering and

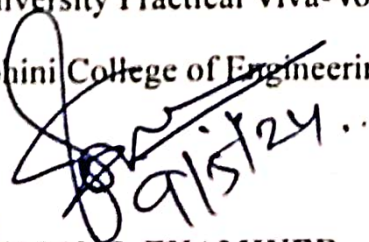
Technology

Palkulam,Variyoor(Post)

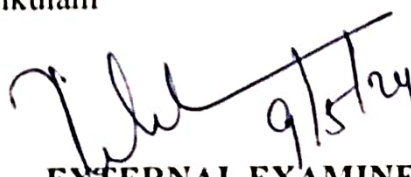
Kanyakumari 629 401

University Practical Viva-Voice Examination held on ~~09.05.2024~~ at

Rohini College of Engineering and Technology , Palkulam



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

## BONAFIDE CERTIFICATE

Certified that this project report "INTELLIGENT OBSTACLE AVOIDANCE SYSTEM FOR MOBILE ROBOT" is the bonafide work of "N.NIKITHA(963320106075),M.R.RANGEETHA(963320106087), S.S.SIVASREE(963320106107),S.SUBITHA(963320106115)" who carried out the project work under my supervision.



**SIGNATURE**

**Dr. Jasmine J.C Sheeja M.E., Ph.D.**

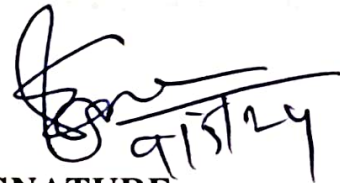
**HEAD OF THE DEPARTMENT**

**ASSOCIATE AND HEAD**

Department of Electronics and Communication  
Engineering

Rohini College of Engineering

And Technology, Palkulam.



**SIGNATURE**

**Dr.E.Sree Devi M.E., Ph.D.**

**SUPERVISOR**

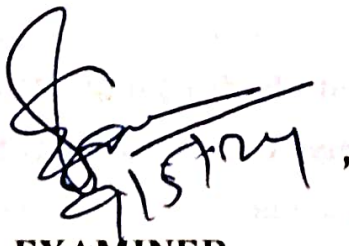
**ASSOCIATE PROFESSOR**

Department of Electronics and  
Communication Engineering

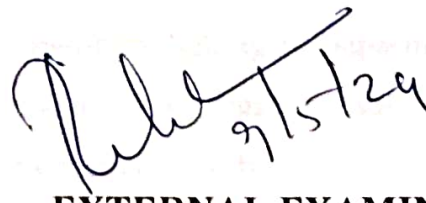
Rohini College of Engineering

And Technology, Palkulam.

Submitted for the Project Viva-voice examination held on ..... MAY 2024.



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

ANNA UNIVERSITY: CHENNAI 600 025

**BONAFIDE CERTIFICATE**

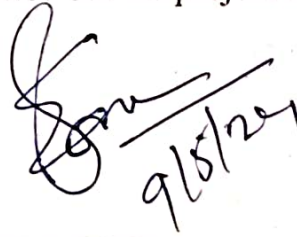
Certified that this project report in “ **MONKEY POX DETECTION USING INTERPRETABLE DEEP LEARNING AND IMAGE PROCESSING**” is the work of **SIVA NIVETHA S(963320106104) SUBHIKSHA V(963320106113),SWETHA P J (963320106120) ,THESIKA A (963320106122)** ” who carried out the project work under my supervision.



**SIGNATURE**

**Dr.JASMINE.J.C.SHEEJA,  
M.E.,Ph.D.**

Associate Professor & Head  
Department of Electronics  
and Communication  
Engineering Rohini  
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629 401.



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University Practical Viva-Voice Examination held on 09/05/2024....at  
Rohini College of Engineering & Technology, Palkulam .



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**



## BONAFIDE CERTIFICATE


Certified that this project report “DESIGN OF WIRELESS SENSOR NETWORK FOR MONITORING THE PERFORMANCE OF PHOTOVOLTAIC PANEL” is the bonafide work of “K.MURUGA VINISHA (963320106072), S.SONIYA(963320106108), R.SUBATHRA(963320106112), B.THANUSIYA (963320106121)” who carried out the project work under my supervision.



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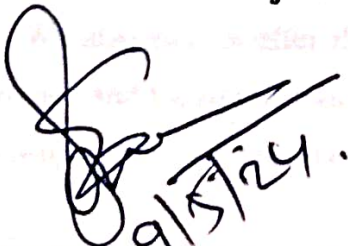


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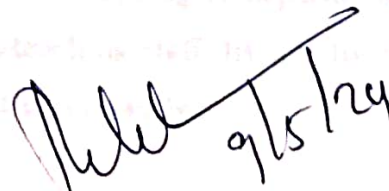
**Dr.JACKSONDANIEL.M.Tech.,Ph.D.,  
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PROFESSOR  
Department of Electronics and  
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College of Engineering and  
Technology, Palkulam.

**Submitted for the Project Viva-voice examination held on .09.....May 2024.**



INTERNAL EXAMINER



EXTERNAL EXAMINER

## BONAFIDE CERTIFICATE

Certified that this project report "SMART CAR PARKING USING IOT INTEGRATION" is the bonafide work of "S.V.ABINISHA (963320106004), R.ANANTHI (963320106018), S.ASHIKA (963320106022), A.S.SHENBAGA JANANI(963320106701)" who carried out the project work under my supervision.



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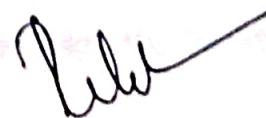
Rohini College of Engineering and

Technology.

Submitted for the Project Viva-voce examination held on 08/05/24.... May 2024



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

ACKNOWLEDGEMENT

**BONAFIDE CERTIFICATE**

Certified that this project report "A SMART SYSTEM FOR FERTILIZER RECOMMENDATION AND IRRIGATION IN AGRONOMY PRACTICES" is the bonafide work of "T.AARTHI (963320106001), M.ABISHA (963320106006), S.ABISHA (963320106007) ,S.AMIRTHA (963320106015) " who carried out the project work under my supervision.

  
SIGNATURE

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Submitted for the Project Viva-voce examination held on 08/05 May 2024

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

## BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND DEVELOP OF SOLAR TRACKER SYSTEM FOR ZERO WASTAGE POWER GENERATION USING RENEWABLE ENERGY" is the bonafide work of "M.ASWATHI (963320106024), S.S.BABISHA (963320106030), M.N.BAVANI (963320106034), K.BAVITHRA (963320106036)," who carried out the project under my supervision.

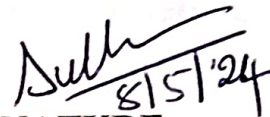


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DR. JASMINE J C SHEEJA, ME.,PhD,

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Electronics And Communication  
Engineering ,  
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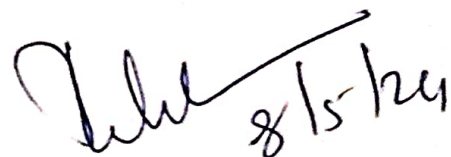
SIGNATURE

DR.S P SUBOTHA, ME.,PhD,

SUPERVISOR

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Rohini College of Engineering  
and Technology.

Submitted For The Project Viva-Voce Examination Held On .....<sup>08</sup>..... May  
2024



## BONAFIDE CERTIFICATE

Certified that this project report "SMART SOIL TESTING ROBOT FOR AGRICULTURE" is the bonafide work of "S JOHN REMISHA (963320106059), S.DHIVYA(963320106043), Y.HARSHINI(963320106051), H.G.GEERTHANA(963320106048)" who carried out the project work under pervision.



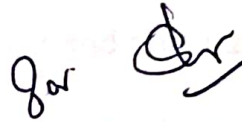
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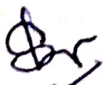
**Ms.NISHNA G KRISHNAN**

**SUPERVISOR**

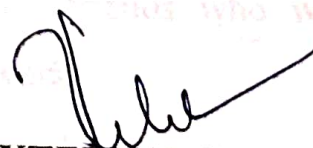
Electronics And Communication  
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Rohini College of Engineering  
And Technology.

Submitted for the Project Viva-voce examination held on ..8.... May 2024



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

## BONAFIDE CERTIFICATE

Certified that this project report "MINI RADIO STATION" is the bonafide work of "ABHAYA JAYAN (963320106003), DIVYA D (963320106045), ISWARYA S (963320106053), JENCY C (963320106054)," who carried out the project work under my supervision



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Submitted for the Project Viva-voice examination held on 8.15... MAY 2024.



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

# BONAFIDE CERTIFICATE


Certified That This Project Report “Realtime Notice Board Display System Using Firebase Cloud” Is The Bonafide Work Of “Ajisha I (963320106012), Chelsi Bell V(963320106040), Jenif J F (963320106055)” Who Carried Out the Project Work Under My Supervision.

  
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DR.JASMINE.J.C.SHEEJA

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And Technology.

  
SIGNATURE

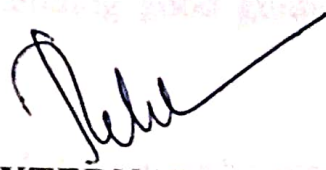
MR.R.V.NAGARAJAN

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Submitted for the Project Viva-voce examination held on <sup>8/5</sup>.....May  
2024

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

## BONAFIDE CERTIFICATE

Certified that this project report "PERFORMANCE INVESTIGATION OF FIBER OPTIC ILLUMINATION SYSTEM USING SUNLIGHT "is the bonafide work of "ABISHEK.M (963320106008), AGNEL GIFSON.S (963320106011), ANTONY VICTOR.S (963320106303), ANANTH.A (963320106016) " who carried out the project work under my supervision.



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Mr.S.Soban,

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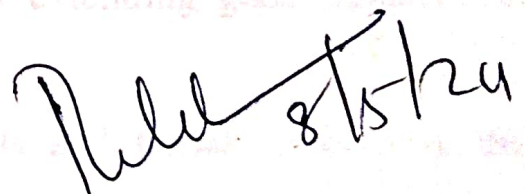
Rohini College of Engineering

and Technology, Palkulam

Submitted for the Project Viva-voce examination held on 08.05.2024. MAY 2024



INTERNAL EXAMINAR



EXTERNAL EXAMINAR



## BONAFIDE CERTIFICATE

Certified that this project report “Integrated Iot Water Quality Monitoring And Management System” is the bonafide work of “M.R.Akash (963320106013), S.Bala Suman (963320106033), V.Jervin Raj (963320106056) , A.Kevin Juliet Dhas (963320106306)” who carried out the project work under my supervision.



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**Dr.JASMINE J C SHEEJA**

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**SIGNATURE**

**Mr.R V NAGARAJAN**

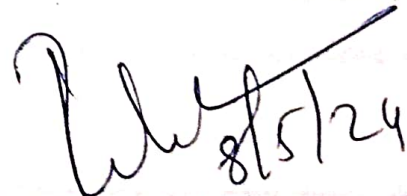
**SUPERVISOR**

Electronics and Communication  
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And Technology.

Submitted for the Project Viva-voce examination held on .....<sup>8</sup>May 2024



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

## BONAFIDE CERTIFICATE

Certified that this project report "ADVANCED POWER THEFT DETECTION SYSTEM "is the bonafide work of ANTON NEKESH A (963320106020), AZEER LAL I (963320106027), GODWIN B (963320106049), KABILESH C.M (963320106061), who carried out the project work under my supervision.



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**Dr.M.REJI, M.E Ph.D,**

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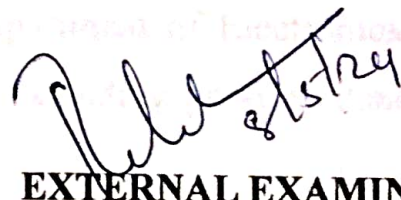
Rohini College of Engineering

and Technology, Palkulam.

Submitted for the Project Viva-voce examination held on .....08..... MAY 2024



**INTERNAL EXAMINER**

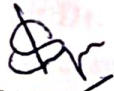


**EXTERNAL EXAMINER**

**ANNA UNIVERSITY : CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report "ADVANCED ROBOT NAVIGATION SYSTEM: PRECISION AND INTELLIGENT PATH PLANNING" is the bonafide work of "ABULIN SHIJO A S (963320106010), JHOTHISH S S (963320106058), RAJA SUNIL N (963320106086), TERRY G MACMILLAN (963320106307)" who carried out the project work under my supervision.



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Dr.M.REJI M.E., Ph.D.,

**SUPERVISOR**

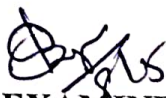
Associate Professor

Department of Electronics and

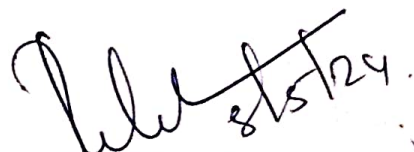
Communication Engineering

Rohini College of Engineering  
and Technology, Palkulam.

Submitted for the Project Viva-voce examination held on 08/05/2024..at  
Rohini college of Engineering and Technology, Palkulam



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

## BONAFIDE CERTIFICATE

Certified that this project report titled "EFFICIENT SENSOR INTEGRATION FOR ENHANCING PERCEPTION AND CONNECTIVITY IN SMART SYSTEM" is the bonofide work of ANI TRULY A (963320106019), BENISHA J (963320106037), BHUVANA S (963320106039), DIVYADHARSINI I (963320106046) who carried out the project work under my supervision.

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Kanyakumari-629701

Submitted for the Viva -Voce held on..08-05-2024.. MAY 2024

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**

## BONAFIDE CERTIFICATE

Certified that this project report "VOICE RECOGNITION IN ROBOTICS" is the bonafide work of "AZMI N (963320106028), BABIKAS (963320106029), BALA RAMYA M (963320106032), BAVANI R (963320106035)," who carried out the project work under my supervision.



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**Dr. JASMINE.J.C.SHEEJA, M.E Ph.D,**

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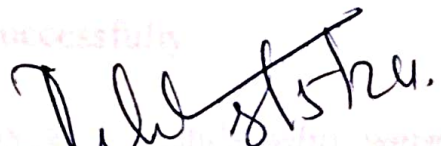
**SUPERVISOR,**

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Submitted for the Project Viva-voce examination held on.....8.....MAY 2024



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

## BONAFIDECERTIFICATE

Certified that this project report "AUTOMATED PERSON DETECTION AND ATTENDENCE SYSTEM USING IMAGE PROCESSING TECHNIQUES" is the bonafide work of "U.N.DHERISHA (963320106042), T.DHIVYA(963320106044), M.ESAKKIAMMAL (963320106047), S.HARISH (963320106050)"who carried out the project work under my supervision.



**SIGNATURE**

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**Dr.JACKSON DANIEL,M.TECH,Ph.D..**

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And Technology, Palkulam.

**Submitted for the Project Viva-voice examination held on.08.05.2024**



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

CERTIFIED THAT THIS PROJECT REPORT "SMART AUTOMATIVE SECURITY CONTROL WITH ACCIDENT ALERT SYSTEM" IS THE BONAFIDE WORK OF "A.KALYAN (963320106062), M.AJITH KUMAR (963320106013), P.HENTRY JOSEPH(9 63320106052) , ANANTHAN.A.PADMANABHAN (963320106017)" WHO CARRIED OUT THE PROJECT WORK UNDER MY SUPERVISION.

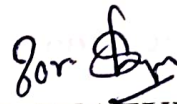


**SIGNATURE**

**Mrs JASMINE J C SHEEJA**

**HEAD OF THE DEPARTMENT**

Electronics and Communication  
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Rohini College of Engineering  
And Technology.



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**MR R VENKATESH**

**SUPERVISOR**

Electronics and Communication  
Engineering  
Rohini College of Engineering  
And Technology.

**Submitted for the Project Viva-voce examination held on .8.... May 2024**



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

## BONAFIDE CERTIFICATE

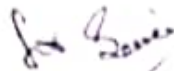
Certified that this project report "VEHICLE TO VEHICLE COMMUNICATION USING LI-FI TECHNOLOGY" is the bonafide work of "A.S. ASWINI (963320106025), S.M. BHAGAVATHI PRIYA (963320106038), T.S. DEEPA SUSHMA (963320106041), M.J. JESSIE PERSIS (963320106057)" who carried out the project work under my supervision.



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Dr. JASMIN,J.C.SHEEJA,ME.,PhD,  
HEAD OF THE DEPARTMENT

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Rohini College of Engineering  
and Technology.

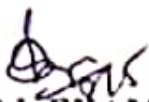


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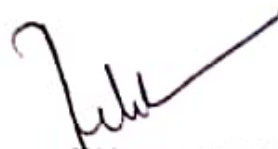
Dr. R. SOWMIYA,ME.,PhD,  
SUPERVISOR

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Rohini College of Engineering  
and Technology.

Submitted for the Project Viva-voce examination held on ..9.8..... May 2024



INTERNAL EXAMINER



EXTERNAL EXAMINER



## BONAFIDE CERTIFICATE

Certified that this project report "A SMART SYSTEM FOR FERTILIZER RECOMMENDATION AND IRRIGATION IN AGRONOMY PRACTICES" is the bonafide work of "T.AARTHI (963320106001), M.LABISHA (963320106006), S.ABISHA (963320106007) ,S.AMIRTHA (963320106015) " who carried out the project work under my supervision.

SIGNATURE

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HEAD OF THE DEPARTMENT

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Rohini College of Engineering  
And Technology.

SIGNATURE

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SUPERVISOR

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Rohini College of Engineering.  
And Technology.

Submitted for the Project Viva-voce examination held on 08/05 May 2024

INTERNAL EXAMINER

EXTERNAL EXAMINER