



Indra Ganesan

COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NAAC with 'B+' Grade, 2(f) & 12B Status Institution by UGC

IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION – 2

TEACHING-LEARNING AND EVALUATION

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL

INDRA GANESAN COLLEGE OF ENGINEERING





Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai
NAAC Accredited, 2(F) Status Institution by UGC



Criteria 2

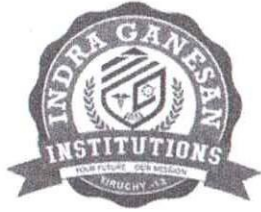
Teaching-Learning and Evaluation

350

Key Indicator-2.3.1 Problem Solving Method

2.3.1 Mini Project and Main Project

**DEPARTMENT OF COMPUTER SCIENCE AND
ENGINEERING**



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
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NAAC Accredited, 2(F) Status Institution by UGC



Department of Computer Science and Engineering ACADEMIC YEAR 2022 – 2023

Problem Solving Method – Mini Project

Batch No.	Registration No	Name of the Student	Year / Sem	Topic	Name of the Learning
1	811220104002	Akshaya T	III / VI	Crime Vision: Advanced Crime Classification with Deep Learning	PROBLEM SOLVING METHOD – MINI PROJECT
	811220104007	Ayisha Siddeequa A			
	811220104031	Monisha R			
	811220104043	Sneha R			
2	811220104004	Appas Ali.D	III / VI	AI enabled Car Parking using OpenCV	
	811220104015	Divyakeerthan P			
	811220104051	Vinith Roshan A			
	811220104052	Yuvaraj M			
3	811220104008	Benasir S	III / VI	Smart Billing System for Water Suppliers	
	811220104012	Cibina S			
	811220104014	Dhivyadharshini A			
	811220104027	Kiruthika M			
4	811220104005	Aravindh V K	III / VI	Cancer Vision: Advanced Breast Cancer Prediction with Deep Learning	
	811220104017	Gnanaprakasam A			
	811220104018	Gowrisankar G			
	811220104029	Mathavan N			
5	811220104013	Devi K	III / VI	Drowsiness Detection and Alerting System	
	811220104024	Kamali A			
	811220104048	Swarnambigai V			
	811220104053	Yuvasri S			


Dr. G. Balakrishnan, M.E., Ph.D.

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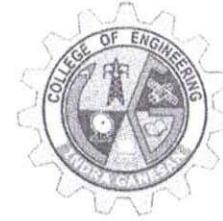
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COLLEGE OF ENGINEERING

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Department of Computer Science and Engineering

Batch No.	Registration No	Name of the Student	Year / Sem	Topic	Name of the Learning
6	811220104016	Gayathri P	III / VI	Intelligent People and Vehicle Counting System for Secretariat	PROBLEM SOLVING METHOD – MINI PROJECT
	811220104025	Kamatchi S			
	811220104301	Santhosh Kumar			
7	811220104032	Priya P	III / VI	Facial Emotion Detection System	
	811220104033	Priyadharshini G			
	811220104039	Sathya Priya N			
	811220104041	Sivaranjini M			
8	811220104019	Hariharan K	III / VI	Covid Vision: Advanced COVID - 19 Detection from Lung X-rays with Deep Learning	
	811220104046	Sumithira R			
	811220104050	Thirumavalavan			

CA

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Manikandam, Trichy-620 012.

D. Reddy
HOD/CSE

**COVID VISION: ADVANCED COVID-19 DETECTION
WITH LUNG X-RAY FROM DEEP LEARNING**

A PROJECT REPORT

Submitted by

HARIHARAN K 811220104019

SUMITHIRA R 811220104046

THIRUMAVALAVAN K 811220104050

in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY

ANNA UNIVERSITY: CHENNAI 600025

MAY 2023


Dr. G. Balakrishnan, M.E., Ph.D.,
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ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this project report "COVID VISION: ADVANCED COVID-19 DETECTION WITH LUNG X-RAY FROM MACHINE LEARNING OR DEEP LEARNING" is the bonafide work of HARIHARAN K(811220104019), SUMITHIRA R(811220104046), THIRUMAVALAVAN K(811220104050) who carried out the project under my supervision.


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Prof. T.SUGASHINI

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Prof .A.RAMYA

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Trichy-620012

Submitted for Anna university project Viva-voce examination held on 03.06.2023


Dr. G. Balakrishnan, M.E., Ph.D.,

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INTERNAL EXAMINER


EXTERNAL EXAMINER
3/6/23

**SMART BILLING SYSTEM FOR WATER
SUPPLIERS USING IOT**

A PROJECT REPORT

Submitted by

ARAVINDH VK	811220104005
GNANA PRAKASAM A	811220104017
GOWRI SANKAR G	811220104018
MATHAVAN N	811220104029

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i

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Certified that this project report "SMART BILLING SYSTEM FOR WATER SUPPLIERS USING IOT" is the bonafide work of MATHAVAN N (811220104029), GNANAPRAKASAM A (811220104017), GOWRI SANKAR G(811220104018), ARAVINDH V K (811220104005), who carried out the project under my supervision.


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INTERNAL EXAMINER


EXTERNAL EXAMINER

3/6/23

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CANCER VISION: ADVANCED BREASTCANCER PREDICTION USING DEEP LEARNING

A PROJECT REPORT

Submitted by

BENASIR S	811220104008
CIBINA S	811220104012
DIVYA DHARSHINI A	811220104014
KIRUTHIKA M	811220104027

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Certified that this project report “**CANCER VISION: ADVANCED BREAST CANCER PREDICTION WITH DEEP LEARNING**” is the bonafide work of **BENASIR S (811219104008), CIBINA S (811220104012), DIVYA DHARSHINI A (811220104014), KIRUTHIKA M (811220104027)** who carried out the project under my supervision.


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INTERNAL EXAMINER


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3/6/23


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**IOT BASED DROWSINESS DETECTION
AND ALERTING SYSTEM**

A PROJECT REPORT

Submitted by

DEVI K	811220104013
KAMALI A	811220104024
SWARNAMBIGAI V	811220104048
YUVASRI S	811220104053

In partial fulfillment for the award of

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Certified that this project report "DRIVER DROWSINESS DETECTION AND ALERTING SYSTEM" is the bonafide work of DEVI K(811220104013) KAMALI A(811220104024) SWARNAMBIGAI V(811220104048) YUVASRI S(811220104053) who carried out the project under my supervision.


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3/6/23

FACIAL EMOTION DETECTION SYSTEM

A PROJECT REPORT

PRIYA P	811220104032
PRIYADHARSHINI G	811220104033
SATHYAPRIYA N	811220104039
SIVARANJANI M	811220104041

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Certified that this project report "EMOTION DETECTION SYSTEM" is the bonafide work of **PRIYA P (811220104032) PRIYADHARSHINI G (811220104033) SATHYAPRIYA P (811220104032) SIVARANJINI M (811220104041)** who carried out the project under my supervision.


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Prof. T. Anita Dorothy

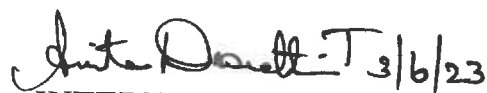
SUPERVISOR

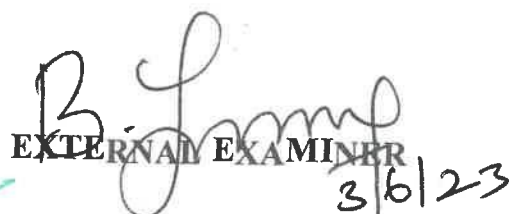
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Submitted for Anna university project Viva-voice examination held on 03/06/23


3/6/23
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3/6/23
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IG Valley, Madurai Main Road
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**CRIME VISION – ADVANCED CRIME
CLASSIFICATION WITH DEEP LEARNING**

A PROJECT REPORT

Submitted by

AKSHAYA T	811220104002
AYISHA SIDDEEQUA A	811220104007
MONISHA R	811220104031
SNEKA R	811220104043

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Certified that this project report "CRIME VISION- ADVANCED CRIME CLASSIFICATION WITH DEEP LEARNING" is the bonafide work of AKSHAYA T (811220104002), AYISHA SIDDEEQUA A (811220104007), MONISHA R (811220104031), SNEKA R (811220104043) who carried out the Project under my supervision.


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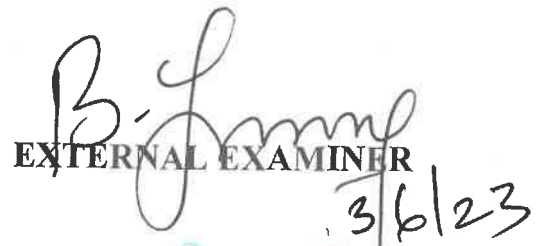
Prof. T. SUGASHINI
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Submitted for Anna university project Viva-voce examination held on 3.6.2023 (FN)


INTERNAL EXAMINER 3/6/23


EXTERNAL EXAMINER 3/6/23


Dr. G. Balakrishnan, M.E., Ph.D.,
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AI ENABLED CAR PARKING USING OPENCV

A PROJECT REPORT

Submitted by

APPAS ALI D	811220104004
DIVYAKEERTHAN P	811220104015
VINITH ROSHANA	811220104051
YUVARAJ M	811220104052

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BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

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JUNE 2023


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BONAFIDE CERTIFICATE

Certified that this project report "AI ENABLED CAR PARKING USING OPENCV" the bonafide work of APPAS ALI D(811220104004), DIVYAKEERTHAN P(811220104015), VINITH ROSHAN A (811220104051), YUVARAJ M (811220104052) who carried out the project under my supervision.


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Prof. T. SUGASHINI

HEAD OF THE DEPARTMENT

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Prof. A. RAMYA

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Submitted for Anna university project Viva-voce examination held on 03/06/2023 (FN)


INTERNAL EXAMINER



Dr. G. Balakrishnan, M.E., Ph.D.,
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Manikandam, Trichy-620 012.


EXTERNAL EXAMINER
3/6/23

INTELLIGENT PEOPLE AND VEHICLE COUNTING

SYSTEM FOR SECRETARIAT IOT

A PROJECT REPORT

Submitted by

GAYATHRI P	811220104016
KAMATCHI S	811220104025
SANTHOSH KUMAR S	811220104301

in partial fulfillment for the award of the degree

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BACHELOR OF ENGINEERING

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COMPUTER SCIENCE AND ENGINEERING

INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY.

ANNA UNIVERSITY::CHENNAI 600 025

JUNE 2023

Dr. G. Balakrishnan, M.E., Ph.D.,

P. Prasad
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ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this Project report "INTELLIGENT PEOPLE AND VEHICLE COUNTING SYSTEM FOR SECRETARIAT" is the bonafide work of "GAYATHRI P(811220104016),KAMATCHI S(811220104301),SANTHOSH KUMAR S(811220104301)" who carried out the project work under my supervision.


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Prof.T.Sugashini

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Prof.A.Suganya

SUPERVISOR

Assistant Professor,

Department of computer science and

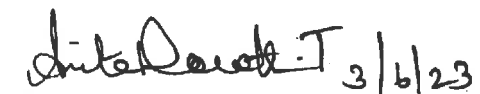
Engineering

Indra Ganesan College of Engineering,

Manikandam,

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Submitted for Anna university project Viva-voce examination held on 3.6.2023 (FN)


INTERNAL EXAMINER


EXTERNAL EXAMINER
3/6/23

Dr. G. Balakrishnan, M.E., Ph.D.,
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Indra Ganesan

COLLEGE OF ENGINEERING

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NAAC Accredited, 2(F) Status Institution by UGC



Department of Computer Science and Engineering

ACADEMIC YEAR 2022 – 2023

Experiential Learning – Main Project

Batch No.	Registration No	Name of the Student	Year / Sem	Topic	Name of the Learning Method
1	811219104001	Arun R	IV / VIII	Yolo Object Detection Using Deep Learning	EXPERIENTIAL LEARNING METHOD - PROJECT
	811219104004	Gowtham C			
	811219104012	Mohamed Nowsath M			
2	811219104005	Indhumathi S	IV / VIII	Solar Panel Crack Detection Using Neural Networks	
	811219104009	Keerthika V			
	811219104017	Ranjana S			
3	811219104002	Balamanikandaprabhu B R	IV / VIII	Pothole Detection Using Machine Learning	
	811219104013	Moorthi C			
	811219104023	Vigneshwaran V			
4	811219104003	Bharathi S	IV / VIII	Yoga Asana Classifier Using Machine Learning	
	811219104024	Vijayalakshmi B			
	811219104014	Nancy N			
5	811219104022	Sweatha B	IV / VIII	Tea Leaf Disease Detection Using Neural Network	
	811219104006	Ishwarya P			
6	811219104018	Ravinya K	IV / VIII	Industrial Fire Detection Using Deep Learning	
	811219104020	Saranya P			
7	811219104021	Suvalakshmi P	IV / VIII	Real Time Secure Clickbait and Biometric ATM User	
	811219104025	Vincy Sharmila K			
8	811219104011	Logadipa S P	IV / VIII	Photochain:A Block Chain Based Secure Photo Sharing	
	811219104008	Keerthika K			
9	811219104010	Krishi Gowtham R	IV / VIII	Human Interactive System NLP And Vision Assistant	
	811219104016	Praveen K			
10	811219104007	Kalaiyasar	IV / VIII	AI Powered Meeting Notes Generators	
	811219104026	Yathesh M			

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HOD/CSE

YOLO OBJECT DETECTION USING DEEP LEARNING

A PROJECT REPORT

Submitted by

ARUN R	811219104001
GOWTHAM C	811219104004
MOHAMED NOWSATH M	811219104012

In partial fulfillment for the award of the degree

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IN

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INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY

ANNA UNIVERSITY: CHENNAI 600025

MAY 2023

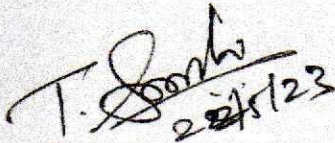

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ANNAUNIVERSITY::CHENNAI 600025

BONAFIDECERTIFICATE

Certified that this project report "YOLO OBJECT DETECTION USING DEEP LEARNING" is the bonafide work of ARUN R(811219104012), GOWTHAM C(811219104004), MOHAMED NOWSATH M(811219104012) who carried out the project under my supervision.



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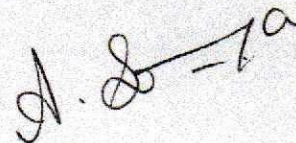
Prof. T. Sugashini

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Prof. A. Suganya

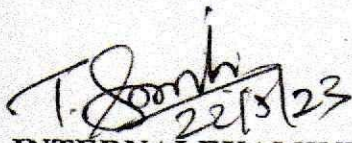
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Assistant Professor,

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Submitted for Anna university project Viva-voce examination held on 22.05.2023



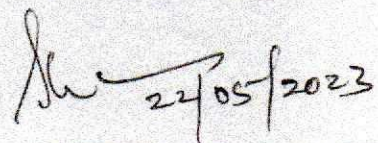
INTERNAL EXAMINER



Dr. G. Balakrishnan, M.E., Ph.D.,

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EXTERNAL EXAMINER

HUMAN INTERACTIVE SYSTEM: NLP AND VISION

ASSISTANT ENABLED NEOTRIC COMPUTER

A PROJECT REPORT

Submitted by

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PRAVEEN K

811210104016

in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE AND ENGINEERING

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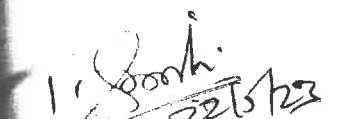
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EXTERNAL EXAMINER


EXTERNAL EXAMINER


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**AI POWERED MEETING NOTES
GENERATOR**

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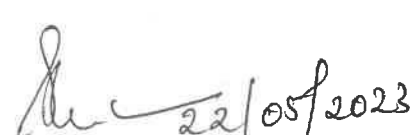
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**TEA LEAF DISEASE
DETECTION USING NEURAL
NETWORK**

A PROJECT REPORT

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SOLAR PANEL CRACK DETECTION USING NEURAL NETWORKS

A PROJECT REPORT

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EXTERNAL EXAMINER

POTHOLE DETECTION USING MACHINE LEARNING

A PROJECT REPORT

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EXTERNAL EXAMINER

YOGA ASANA CLASSIFIER USING MACHINE LEARNING

A PROJECT REPORT

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PHOTOCHAIN: A BLOCKCHAIN BASED SECURE PHOTO SHARING FRAMEWORK FOR SOCIAL NETWORK

A PROJECT REPORT

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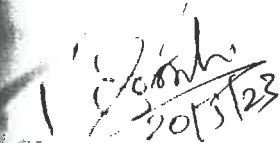
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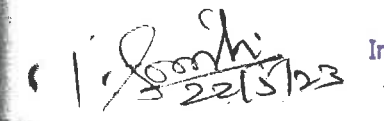
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EXTERNAL EXAMINER


EXTERNAL EXAMINER

INDUSTRIAL FIRE DETECTION USING DEEP LEARNING

A PROJECT REPORT

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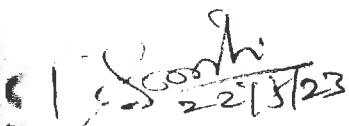
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INTERNAL EXAMINER


EXTERNAL EXAMINER

REAL TIME SECURE CLICKBAIT AND BIOMETRIC ATM USER AUTHENTICATION AND MULTIPLE BANK TRANSACTION SYSTEM

A PROJECT REPORT

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22/5/23
INTERNAL EXAMINER


22/05/23
EXTERNAL EXAMINER

**COVID VISION: ADVANCED COVID-19 DETECTION
WITH LUNG X-RAY FROM DEEP LEARNING**

A PROJECT REPORT

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INTERNAL EXAMINER


EXTERNAL EXAMINER
3/6/23

**SMART BILLING SYSTEM FOR WATER
SUPPLIERS USING IOT**

A PROJECT REPORT

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CANCER VISION: ADVANCED BREASTCANCER PREDICTION USING DEEP LEARNING

A PROJECT REPORT

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**IOT BASED DROWSINESS DETECTION
AND ALERTING SYSTEM**

A PROJECT REPORT

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FACIAL EMOTION DETECTION SYSTEM

A PROJECT REPORT

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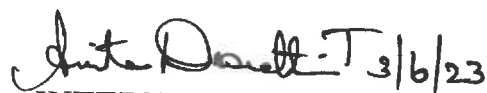
SUPERVISOR

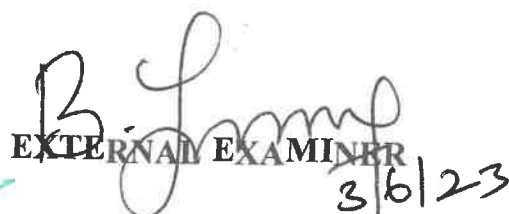
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3/6/23
INTERNAL EXAMINER


3/6/23
EXTERNAL EXAMINER


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**CRIME VISION – ADVANCED CRIME
CLASSIFICATION WITH DEEP LEARNING**

A PROJECT REPORT

Submitted by

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AYISHA SIDDEEQUA A	811220104007
MONISHA R	811220104031
SNEKA R	811220104043

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

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY

ANNA UNIVERSITY::CHENNAI 600025

JUNE 2023


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BONAFIDE CERTIFICATE

Certified that this project report "CRIME VISION- ADVANCED CRIME CLASSIFICATION WITH DEEP LEARNING" is the bonafide work of AKSHAYA T (811220104002), AYISHA SIDDEEQUA A (811220104007), MONISHA R (811220104031), SNEKA R (811220104043) who carried out the Project under my supervision.


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INTERNAL EXAMINER 3/6/23


EXTERNAL EXAMINER 3/6/23


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AI ENABLED CAR PARKING USING OPENCV

A PROJECT REPORT

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APPAS ALI D	811220104004
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EXTERNAL EXAMINER
3/6/23

INTELLIGENT PEOPLE AND VEHICLE COUNTING

SYSTEM FOR SECRETARIAT IOT

A PROJECT REPORT

Submitted by

GAYATHRI P	811220104016
KAMATCHI S	811220104025
SANTHOSH KUMAR S	811220104301

in partial fulfillment for the award of the degree

of

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Certified that this Project report "INTELLIGENT PEOPLE AND VEHICLE COUNTING SYSTEM FOR SECRETARIAT" is the bonafide work of "GAYATHRI P(811220104016),KAMATCHI S(811220104301),SANTHOSH KUMAR S(811220104301)" who carried out the project work under my supervision.


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Department of computer science and

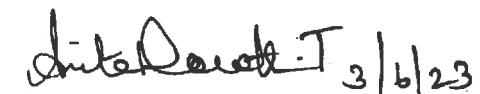
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Trichy - 620012

Submitted for Anna university project Viva-voce examination held on 3.6.2023 (FN)


INTERNAL EXAMINER


EXTERNAL EXAMINER
3/6/23

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Principal

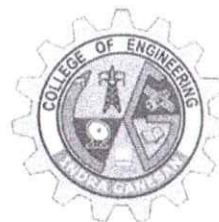
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Manikandam, Trichy-620 012.



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai
NAAC Accredited, 2(F) Status Institution by UGC




Department of Computer Science and Engineering

ACADEMIC YEAR 2022 – 2023

Experiential Learning – M.E CSE Main Project

Batch No.	Registration No	Name of the Student	Year / Sem	Topic	Name of the Learning Method
1	811221405001	Madhumathi K	M.E II / IV	Parking Space Detection Using Image Processing	EXPERIENTIAL LEARNING METHOD - PROJECT
2	811221405002	Vinitha Devi P	M.E II / IV	A Method for Android Malware Detection Based on Static Analysis	


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HOD/CSE

**A METHOD FOR ANDROID MALWARE DETECTION
BASED ON STATIC ANALYSIS**

PHASE II REPORT

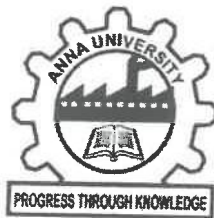
Submitted by

VINITHA DEVI P

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

**MASTER OF ENGINEERING
IN**


COMPUTER SCIENCE



**DEPARTMENT OF COMPUTER SCIENCE
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ANNA UNIVERSITY: CHENNAI 600 025

October, 2023


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BONAFIDE CERTIFICATE

Certified that this project report "A METHOD FOR ANDROID MALWARE DETECTION BASED ON STATIC ANALYSIS" is the bonafide work of VINITHA DEVI P (811221405002) who carried out the project work under my supervision. Certified further that to the best of my knowledge the Work reported here in does not from 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.


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Head of the Department

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Prof. A. RAMYA, M.Tech(cse)


Project Supervisor

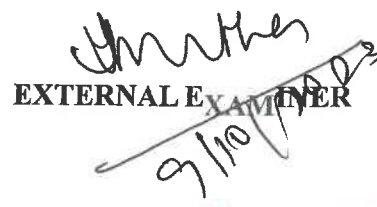

Department of CSE

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Tiruchirapalli – 620012

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INTERNAL EXAMINER


EXTERNAL EXAMINER
9/10/23


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Parking Space Detection using Image Processing

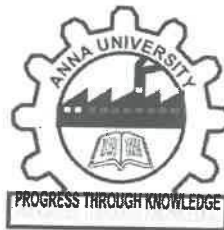
PHASE II REPORT

Submitted by

MADHUMATHI K

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**MASTER OF ENGINEERING IN
COMPUTER SCIENCE**



**DEPARTMENT OF COMPUTER
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ANNA UNIVERSITY, CHENNAI

October, 2023



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BONAFIDE CERTIFICATE

Certified that this project report "Parking Space Detection using Image Processing" is the bonafide work of MADHUMATHI K (811221405001) who carried out the project work under my supervision. Certified further that to the best of my knowledge the Work reported here in does not from 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.


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9.10.2023


INTERNAL EXAMINER




EXTERNAL EXAMINER
9/10/23

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