

List of students with Roll No. and Certificates of Internship/Evaluated Project Report/Field Work Report			
2022-23			
<u>S.No</u>	Reg No	Name of the Student	Title of the Project
1	1904003	Aswini R	Smart Substation Monitoring and Control
2	1904004	Atchaya B	Effective Load Control Technique
3	1904005	Bala Surya S	Heart Disease Prediction using Machine Learning
4	1904006	Bharathram V	Design of Expense Tracker dashboard using Figma and XD
5	1904007	Bharthi S	Automation of Test Generation for PMU Events
6	1904009	Gokulan P	Building Tourism Web Application using Bootstrap and Javascript framework
7	1904011	Hari Prasath G	Fall Detection and Alert system based on IoT for elderly people
8	1904013	Hemavardhini J	Handwritten Digit Recognition using Convolutional Neural Network
9	1904014	Indhumathi K	Image Stepnography using RSA Algorithm
10	1904017	Jayasurya M	Web based Bank Loan Application Development
11	1904018	Jothi Ramalingam A	Image Stepnography using RSA Algorithm
12	1904020	Kiruthika A	Datanyx - Reporting App
13	1904021	Kiruthika P.S	IoT based Monitoring of Electrical panel from Airport operation control center
14	1904022	Kishore R	Web based Bank Loan Application Development
15	1904023	Lakshmanan P	Protection of crops based on Birds sound classification
16	1904024	Mathan Raj T	Web based Bank Loan Application Development
17	1904025	Mohanapriya S S	Smart Substation Monitoring and Control
18	1904026	Mohanram E	Fall Detection and Alert system based on IoT for elderly people
19	1904029	Nithilaa Lakshmi V	Weed Detection using YoloV5
20	1904030	Nithin Ram C B	Corestack QA policies for Automation
21	1904031	Nithiya Shri D	Image Stepnography using RSA Algorithm
22	1904032	Pavithran K B	Heart Disease Prediction using Machine Learning
23	1904034	Praburam K V	Web based Bank Loan Application Development
24	1904035	Praveen K	Fall Detection and Alert system based on IoT for elderly people
25	1904039	Raksheka R	Web based Bank Loan Application Development
26	1904040	Ramchandrar K G	Java Based Ecommerce Web Application Development
27	1904041	Roshan Tariq	Machine Learning based Speech to Text Paraphrasing Tool
28	1904042	Sangeetha M	Unit Testing and Generating report using Packet Krafing in networking
29	1904043	Sankar Kalidas A	Building E-commerce Web Application with Ember Framework
30	1904045	Satheesh Kumar S	Protection of crops based on Birds sound classification
31	1904047	Shesathri K	Heart Disease Prediction using Machine Learning
32	1904048	Shunmathi.D	Smart Substation Monitoring and Control
33	1904049	Shyamsunder R	Multi - tenent infrastructure for SaaS Application
34	1904050	Siva Sundara Krishna P	EDI Translation using AI
35	1904051	Sowmiya R	Weed Detection using YOLO
36	1904052	Srivathsan P	Heart Disease Prediction using Machine Learning
37	1904054	Suharini C	Image Stepnography using RSA Algorithm
38	1904055	Sujeetha S	3GPP Protocol Tesing - Operator Y
39	1904057	Sukumar A S	Cross - Browser Auditing Tool
40	1904059	Suvetha S	Handwritten Digit Recognition using Convolutional Neural Network
41	1904060	Swetha S	Web based Intelligent Bank Loan Application Development
42	2004201	Harrishkumar S V	Handwritten Digit Recognition using Convolutional Neural Network

43	2004202	Kumaresh V	Protection of crops based on Birds sound classification
44	2004203	Nowtham M	Protection of crops based on Birds sound classification
45	1904063	Abisheak S	Implementation Of Supply Chain And Logistic Management Using Block Chain
46	1904088	Gayathri N.	
47	1904107	Manigandan S	
48	1904076	Samuthirika S	
49	2004206	Hariharan S	
50	1904075	Dhinesh R	Load Balancing For Network Traffic In Local Area Network Using SDN
51	1904077	Gokul R	
52	1904085	Kishore R	
53	1904101	Praneeth S	
54	1904118	Udhaya prakash T	
55	1904065	Aishwarya B	Smart parking management system using Image processing
56	1904072	Bavithra Ganesh S.	Smart parking management system using Image processing
57	1904068	Arthi M	Architecture Compliance suite for PSA_M and FF_A
58	1904069	Arunagirish B	Automated Recruitment
59	1904070	Ashutosh Deb	3GPP Protocol Carrier Acceptance Testing for Operator X
60	1904082	Jeevaraj M	Electric Vehicle Controller Design and Testing
61	1904086	Logeshwari R	Detection of anomaly based data breach in the network using machine learning
62	1904083	Jerin A	Deep Fake Detection Using Deep Neural Networks
63	1904090	Mohan Raj M	IT - Enabled Fisherman Support System
64	1904091	Mohanappriya K	Datanyx-A Business Intelligence software
65	1904092	Momin Shafi	Test Driver Development Framework for fixed Income cash Product
66	1904097	Nishanth A S	IPM-Intelligent Pricing Management
67	1904093	Mridul Mishra	Data transmission using visible light communication
68	1904098	Nithin Balaji K.S.	Design And Implementation Of Miniaturized SSD Firmware
69	1904119	Umapriya Selvam	Design and implementation of miniaturized Firmware
70	1904103	Praveen Raj S R	Development And Debugging In Directed Validation On CPU
71	1904105	Pushkar Pandey	Developing NbExtension as Connector in Jupyter Notebook
72	1904106	Ranga K Prasad H	Automated test case generation for ASIC flash controller validation
73	1904116	Suriya C J	Firmware Design Language
74	1904111	Sherjeel Amin	Backend and JSON simulation of Library Management System
75	2004207	Shiranjeevi A	3GPP Protocol Carrier Acceptance Testing for Operator Z

**COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE – 641014**  
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**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this report “SMART SUBSTATION MONITORING AND CONTROL” is the Bonafide work of ASWIN.R (1904003) who carried out the project work under my supervision.

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Submitted for 19EC81 Project Phase II and Viva-Voce held on

17/5/2023

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Certified that this project report “EFFECTIVE SWITCHING TECHNIQUES” is the bonafide work of “ATCHAYA.B (1904004)”, who carried out the project under my supervision.

pki, BOSCH, APAC, S, A, Saravanaprakash.S  
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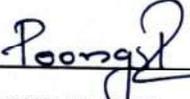
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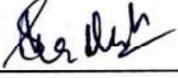
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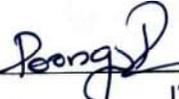
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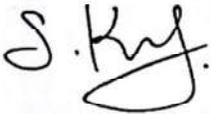
  
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Certified that this project report **“DESIGNING EXPENSE TRACKER DASHBOARD USING FIGMA AND XD”** is the bonafide work of **“BHARATHRAM V (1904006)”**, who carried out the project under my supervision.



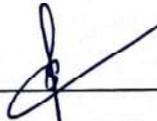
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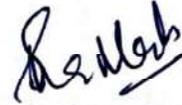


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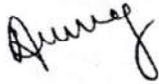
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Certified that this project report **“AUTOMATION OF TEST GENERATION FOR PMU EVENTS”** is the bonafide work of **“BHARTHI S(1904007)”**, who carried out the project under my supervision.



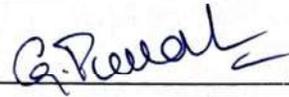
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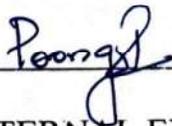
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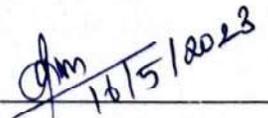
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Certified that this project report **“BUILDING TOURISM AND ECOMMERCE  
BASED WEB APPLICATIONS USING BOOTSTRAP,  
JAVASCRIPT AND REACT FRAME WORKS”** is the bonafide work of  
**“GOKULAN P (1904009)”**, who carried out the project under my supervision.



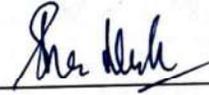
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16.05.2023.



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Certified that this report "FALL DETECTION AND ALERT SYSTEM BASED ON IoT FOR ELDERLY PEOPLE" is the Bonafide work of HARI PRASATH G (1904011) who carried out the project work under my supervision.

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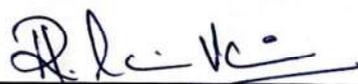
S. Uma Maheswari  
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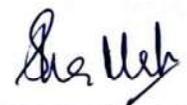
**BONAFIDE CERTIFICATE**

Certified that this report “**HANDWRITTEN DIGIT RECOGNITION USING CONVOLUTIONAL NEURAL NETWORK**” is the Bonafide work of **J. HEMAVARDHINI (1904013)** who carried out the project work under my supervision.



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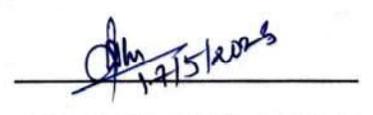


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 COIMBATORE – 641014

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this report “**IMAGE STEGANOGRAPHY USING RSA ALGORITHM**” is the Bonafide work of **INDHUMATHI K(1904014)** who carried out the project work under my supervision.



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**SIGNATURE**

**Dr. G. CHRISTINA M.E., Ph.D.,**

**SUPERVISOR**

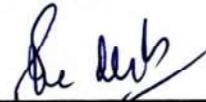
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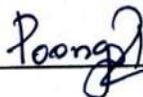
Department of Electronics and

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Certified that this report “**WEB BASED BANK LOAN APPLICATION DEVELOPMENT**” is the Bonafide work of **JAYASURYA M (1904017)** who carried out the project work under my supervision.



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**Mr. K. V. MOZHI ARASAN**

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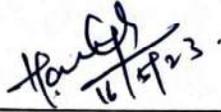
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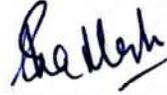
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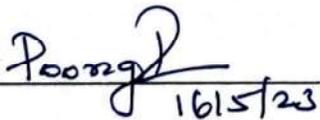
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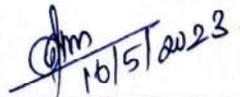
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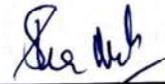


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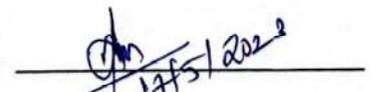
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Certified that this project report “**DATANYX – REPORTING APP**” is the bonafide work of “**KIRUTHIKA A (1904020)**”, who carried out the project under my supervision.

*D. Ghan Shyam*  
*15/5/23*

SIGNATURE

**Er. GHAN SHYAM**  
**INTERN SUPERVISOR**  
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*M. M. Ramya*  
*15/05/2023*

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**Ms. M. Ramya M.E.,**  
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*Dr. S. Uma Maheswari*

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**Dr. S.UMA MAHESWARI**  
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Submitted for **19EC81 Project Phase II and Viva-Voce** held on

16-05-2023

*Poojitha*  
*15/5/23*

INTERNAL EXAMINER

*Dr. S. Uma Maheswari*  
*16/5/2023*

EXTERNAL EXAMINER

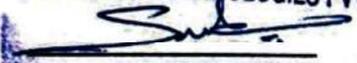
**COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE = 641014**  
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**ANNA UNIVERSITY: CHENNAI 600 025**

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Certified that this project report **"IOT BASED MONITORING OF ELECTRICAL PANEL FROM AIRPORT OPERATION CONTROL CENTER"** is the bonafide work of **"KIRUTHIKA.P.S (1904021)"**, who

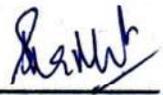
carried out the project under my supervision.

  
\_\_\_\_\_  
**SIGNATURE**  
Internal Signatory

**Mr. SRIDHARAN**  
**CHERUKURU**  
**CO-FOUNDER AND CHIEF**  
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**INTERN SUPERVISOR**  
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Private Limited,  
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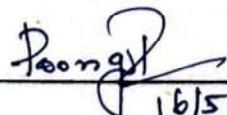
**Mrs.K.M.PRIYA,**  
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Assistant Professor  
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Coimbatore - 641 014.

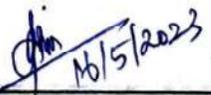
  
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**Dr. S.UMA MAHESWARI**  
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16.05.2023

  
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**ANNA UNIVERSITY: CHENNAI 600 025**

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Certified that this report “**WEB BASED BANK LOAN APPLICATION DEVELOPMENT**” is the Bonafide work of **KISHORE R (1904022)** who carried out the project work under my supervision.

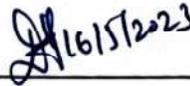


**SIGNATURE**

**Mr. K. V. MOZHI ARASAN**

**INTERN SUPERVISOR**

KANINI SOFTWARE  
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Ratha tek meadows,  
Sholinganallur,  
Chennai-600 119

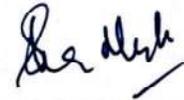


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**Ms. T. YATHAVI, M.E.,**

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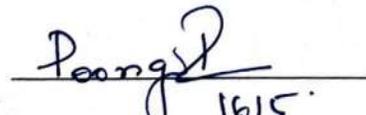
**Dr. S.UMA MAHESWARI**  
**M.E., Ph.D.,**

**PROFESSOR AND HEAD**

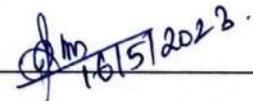
Department of Electronics  
and Communication  
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Coimbatore – 641 014.

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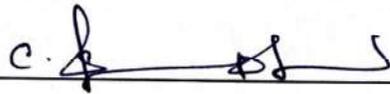
**EXTERNAL EXAMINER**

**COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE – 641014**  
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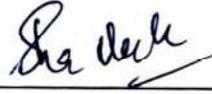
Certified that this report “**PROTECTION OF CROPS BASED ON BIRDS SOUND CLASSIFICATION**” is the Bonafide work of **LAKSHMANAN P (1904023)**, who carried out the project work under my supervision.



**SIGNATURE**

**Ms. C. SUBHA PRIYADHARSHINI M.E.,**  
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17.05.2023



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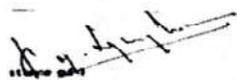
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Certified that this report “**WEB BASED BANK LOAN APPLICATION DEVELOPMENT**” is the Bonafide work of **MATHANRAJ T (1904024)** who carried out the project work under my supervision.



**SIGNATURE**

**Mr. K. V. MOZHI ARASAN**

**INTERN SUPERVISOR**

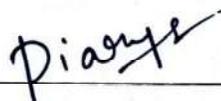
**KANINI SOFTWARE**

**SOLUTIONS,**

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**SIGNATURE**

**Ms. D. DIANA JOSEPHINE,**  
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**SIGNATURE**

**Dr. S.UMA MAHESWARI**  
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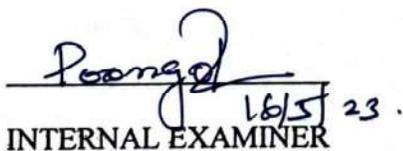
**Department of Electronics**  
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**Engineering,**

**Coimbatore Institute of**  
**Technology,**

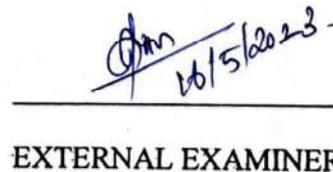
**Coimbatore – 641 014.**

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**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this report “SMART SUBSTATION MONITORING AND CONTROL” is the Bonafide work of **MOHANAPRIYA.S.S (1904025)** who carried out the project work under my supervision.

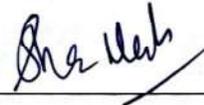


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**SIGNATURE**

**Dr. P. MUTHU SUBRAMANIAN M.E.,  
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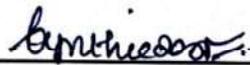
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**EXTERNAL EXAMINER**

**COIMBATORE INSTITUTE OF TECHNOLOGY, Coimbatore-641014**  
(Government aided Autonomous Institution Affiliated to Anna University, Chennai)

**ANNA UNIVERSITY: CHENNAI 600 025**

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Certified that this report "FALL DETECTION AND ALERT SYSTEM BASED ON IoT FOR ELDERLY PEOPLE" is the Bonafide work of MOHANRAM E (1904026) who carried out the project work under my supervision.

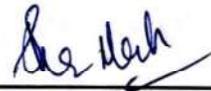


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Ms. CYNTHIA JOSEPH M.E.,

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Assistant Professor Department  
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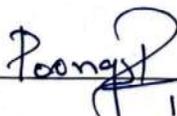
Dr. S.UMA MAHESWARI M.E., Ph.D.,

PROFESSOR AND HoD

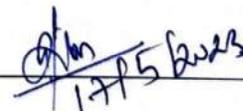
Department of Electronics and  
Communication Engineering,  
Coimbatore Institute of Technology,  
Coimbatore – 641 014.

Submitted for 19EC81 Project Phase-II and Viva-Voce held on

17-05-2023



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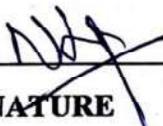
EXTERNAL EXAMINER

**COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE – 641014**  
(Government aided Autonomous Institution Affiliated to Anna University, Chennai)

**ANNA UNIVERSITY : CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this report “WEED DETECTION USING YOLO” is the Bonafide work of NITHILAA LAKSHME V (1904029) who carried out the project work under my supervision.

  
\_\_\_\_\_

**SIGNATURE**

**Dr.N. DEEPA M.E., Ph.D.,**

**SUPERVISOR**

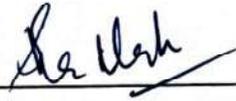
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\_\_\_\_\_

**SIGNATURE**

**Dr. S.UMA MAHESWARI M.E., Ph.D.,**

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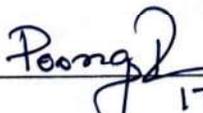
Communication Engineering,

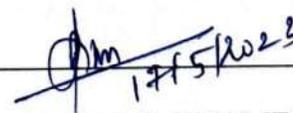
Coimbatore Institute of Technology,

Coimbatore – 641 014.

Submitted for 19EC81 Project Phase II and Viva-Voce held on

17/05/2023

  
17/5/23  
**INTERNAL EXAMINER**

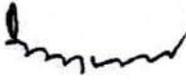
  
17/5/2023  
**EXTERNAL EXAMINER**

**COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE – 641014**  
(Government aided Autonomous Institution Affiliated to Anna University, Chennai)

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this report “**CoreStack Quality Assurance policies for automation**” is the Bonafide work of **NITHIN RAM C B (1904030)** who carried out the project work under my supervision.



\_\_\_\_\_  
SIGNATURE

**Mr. Raj Raghavan**

**Chief People & Culture  
Officer**

CoreStack

RMZ One Paramount, Plot

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\_\_\_\_\_  
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**Ms. K. HARINI, M.E.,**

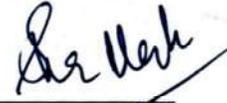
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**Dr. S.UMA MAHESWARI  
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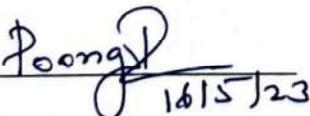
Department of Electronics  
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Coimbatore – 641 014.

Submitted for **19EC81 Project Phase II and Viva-Voce** held on

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16.05.2023



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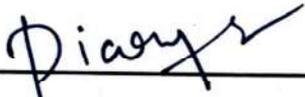
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EXTERNAL EXAMINER

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Certified that this report “IMAGE STEGANOGRAPHY USING RSA ALGORITHM” is the Bonafide work of NITHIYA SHRI D (1904031) who carried out the mini project work under my supervision.



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**Dr. S.UMA MAHESWARI M.E., Ph.D.,  
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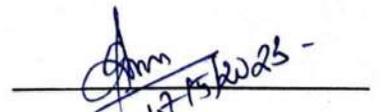
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Coimbatore – 641 014.

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17.05.2023



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Certified that this report “HEART DISEASE PREDICTION USING MACHINE LEARNING” is the Bonafide work of **K. B. PAVITHRAN (1904032)**, who carried out the project work under my supervision.



SIGNATURE

**Ms. V. SOWMYA M.E.,**

**SUPERVISOR**

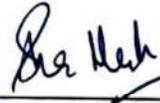
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**ANNA UNIVERSITY : CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this report “**WEB BASED BANK LOAN APPLICATION DEVELOPMENT**” is the Bonafide work of **PRABURAM K V (1904034)** who carried out the project work under my supervision.



**SIGNATURE**

**Mr. K. V. MOZHI ARASAN**

**INTERN SUPERVISOR**

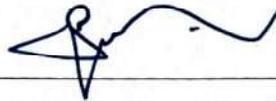
**KANINI SOFTWARE**

**SOLUTIONS,**

**Ratha tek meadows,**

**Sholinganallur ,**

**Chennai-600 119**



**SIGNATURE**

**Ms. V. SOWMYA, M.E.,**

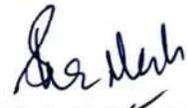
**SUPERVISOR**

**Assistant professor**

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**Coimbatore – 641 014.**



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**Dr. S. UMA MAHESWARI  
M.E., Ph.D.,**

**PROFESSOR AND HEAD**

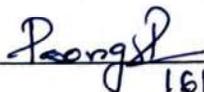
**Department of Electronics  
and Communication  
Engineering,**

**Coimbatore Institute of  
Technology,**

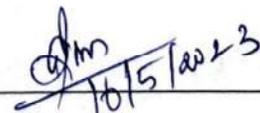
**Coimbatore – 641 014.**

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**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this report "**FALL DETECTION AND ALERT SYSTEM BASED ON IoT FOR ELDERLY PEOPLE**" is the Bonafide work of **PRAVEEN K (1904035)** who carried out the project work under my supervision.

*Dhanal*  
16/5/23

**SIGNATURE**

**Ms.S.DHANALAKSHMI M.E.,**

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Coimbatore – 641 014.

*S. Uma Maheswari*

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**Dr.S.UMA MAHESWARI M.E., Ph.D.,**

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Coimbatore – 641 014.

Submitted for **19EC81 Project Phase-II and Viva-Voce** held on

17/05/2023

*Poongo P*  
16/5/23

**INTERNAL EXAMINER**

*S. Uma Maheswari*  
17/5/2023

**EXTERNAL EXAMINER**

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**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this report “**WEB BASED BANK LOAN APPLICATION DEVELOPMENT**” is the Bonafide work of **RAKSHEKA R (1904039)** who carried out the project work under my supervision.



**SIGNATURE**

**Mr. K. V. MOZHI ARASAN**

**INTERN SUPERVISOR**

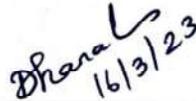
**KANINI SOFTWARE**

**SOLUTIONS,**

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**Chennai-600 119**



**SIGNATURE**

**Ms. S. DHANALAKSHMI,**  
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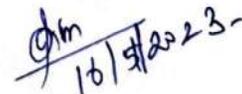
**Coimbatore – 641 014.**

**Submitted for 19EC81 Project Phase II and Viva-Voce held on**

**16-05-2023**



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**COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE – 641014**  
(Government aided Autonomous Institution Affiliated to Anna University, Chennai)

**ANNA UNIVERSITY : CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “**JAVA BASED ECOMMERCE WEB APPLICATION DEVELOPMENT**” is the bonafide work of **K. G. RAMCHANDAR (1904040)**, who carried out the project under my supervision.

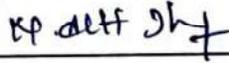


15.05.2023.

**SIGNATURE**

**Mr. R. SUDHAKAR**  
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**MEMBER**

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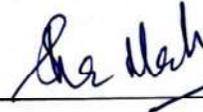


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**Dr. S.UMA MAHESWARI**  
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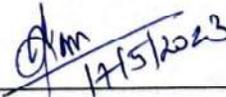
Department of Electronics and  
Communication Engineering,  
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Coimbatore – 641 014.

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**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “UNIT TESTING AND GENERATING REPORT USING PACKET CRAFTING IN NETWORKING” is the bonafide work of “SANGEETHA M (1904042)”, who carried out the project under my supervision.



**SIGNATURE**

**SHAM SUNDAR SHARMA**  
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**Ms. S.BALA DHANALAKSHMI**  
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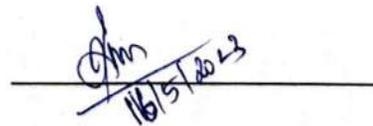
**Dr. S.UMA MAHESWARI**  
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Coimbatore – 641 014.

**Submitted for 19EC81 Project Phase II and Viva-Voce held on**

16-05-2023



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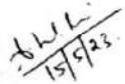
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(Government aided Autonomous Institution Affiliated to Anna University, Chennai)

**ANNA UNIVERSITY : CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “**BUILDING E-COMMERCE WEB APPLCIATION WITH EMBER FRAMEWORK**” is the bonafide work of “**SANKAR KALIDAS A (1904043)**”, who carried out the project under my supervision.

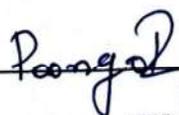
  
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**INTERN SUPERVISOR,**  
**MEMBER**  
**TECHNICAL STAFF**  
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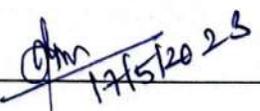
  
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**Dr. S.UMA MAHESWARI**  
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Coimbatore – 641 014.

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16.05.2023

  
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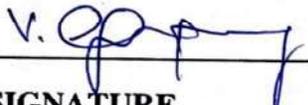
  
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(Government aided Autonomous Institution Affiliated to Anna University, Chennai)

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**BONAFIDE CERTIFICATE**

Certified that this report **“PROTECTION OF CROPS BASED ON BIRDS SOUND CLASSIFICATION”** is the Bonafide work of **S. SATHEESH KUMAR (1904045)**, who carried out the project work under my supervision.

  
\_\_\_\_\_

**SIGNATURE**

**Ms. V. GOWRI PRIYAA M.E.,**

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**SIGNATURE**

**Dr. S.UMA MAHESWARI M.E., Ph.D.,**

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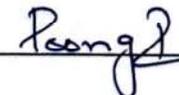
Communication Engineering,

Coimbatore Institute of Technology,

Coimbatore – 641 014.

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17.05.2023

  
\_\_\_\_\_ 17/5/23  
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\_\_\_\_\_ 17/5/2023  
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**BONAFIDE CERTIFICATE**

Certified that this report “**HEART DISEASE PREDICTION USING MACHINE LEARNING**” is the Bonafide work of **K. SHESATHRI (1904047)**, who carried out the project work under my supervision.

**SIGNATURE**

**Ms. R. NITHYALAKSHMI M.E.,**

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**ANNA UNIVERSITY: CHENNAI 600 025**

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Certified that this report “SMART SUBSTATION MONITORING AND CONTROL” is the Bonafide work of **SHUNMATHI.D (1904048)** who carried out the project work under my supervision.

  
\_\_\_\_\_

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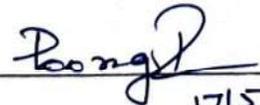
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17.05.2023

  
\_\_\_\_\_ 17/5/23  
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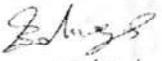
  
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**ANNA UNIVERSITY : CHENNAI 600 025**

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Certified that this report “**MULTI-TENANT INFRASTRUCTURE FOR SAAS APPLICATION**” is the Bonafide work of **SHYAM SUNDER R (1904049)** who carried out the project work under my supervision.

  
15/05/2023  
(**MR. BALAMURUGAN NACHIMUTHU**)

\_\_\_\_\_  
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**Mr. BALAMURUGAN NACHIMUTHU**

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16/5/2023

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**SIGNATURE**

**Dr. S.UMA MAHESWARI  
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**PROFESSOR AND HEAD**

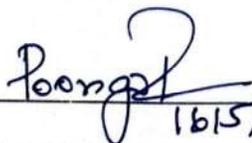
Department of Electronics  
and Communication  
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Coimbatore Institute of  
Technology,

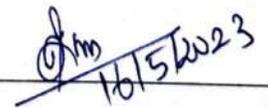
Coimbatore – 641 014.

Submitted for **19EC81 Project Phase II and Viva-Voce** held on

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16/05/2023

  
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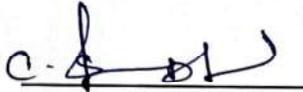
**BONAFIDE CERTIFICATE**

Certified that this project report “**ELECTRONIC DATA INTERCHANGE TRANSLATION ENGINE**” is the bonafide work of “**SIVA SUNDARA KRISHNA P(1904050)**”, who carried out the project under my supervision.



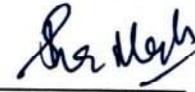
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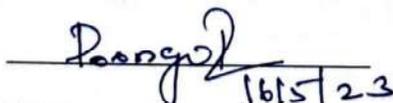


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Submitted for **19EC81 Project Phase II and Viva-Voce** held on

16.05.2023



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(Government aided Autonomous Institution Affiliated to Anna University, Chennai)

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**BONAFIDE CERTIFICATE**

Certified that this report “WEED DETECTION USING YOLO” is the Bonafide work of **SOWMIYA R (1904051)** who carried out the project work under my supervision.



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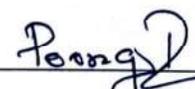
Communication Engineering,

Coimbatore Institute of Technology,

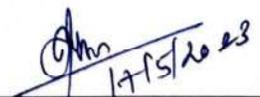
Coimbatore – 641 014.

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17/05/2023



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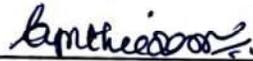
17/5/2023  
**EXTERNAL EXAMINER**

**COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE – 641014**  
(Government aided Autonomous Institution Affiliated to Anna University, Chennai)

**ANNA UNIVERSITY : CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this report “**HEART DISEASE PREDICTION USING MACHINE LEARNING**” is the Bonafide work of **P. SRIVATHSAN (1904052)**, who carried out the project work under my supervision.

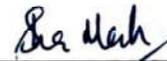


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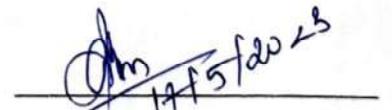
**Dr. S. UMA MAHESHWARI M.E., Ph.D.,  
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Coimbatore Institute of Technology,  
Coimbatore – 641 014.

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(Government aided Autonomous Institution Affiliated to Anna University, Chennai)

**ANNA UNIVERSITY : CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this report “**IMAGE STEGANOGRAPHY USING RSA ALGORITHM**” is the Bonafide work of **SUHARINI C (1904054)** who carried out the mini project work under my supervision.

  
\_\_\_\_\_

**SIGNATURE**

**Dr. N. DEEPA M.E., Ph.D.,**

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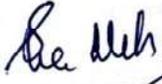
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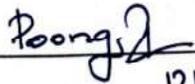
Communication Engineering,

Coimbatore Institute of Technology,

Coimbatore – 641 014.

Submitted for **19EC81 Project Phase II and Viva-Voce** held on

17 May 2023

  
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**COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE – 641014**  
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**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “3GPP PROTOCOL TESTING FOR OPERATOR-Y” is the bonafide work of “SUJEETHA S (1904055)”, who carried out the project under my supervision.



**SIGNATURE**

**Mr. K. KANAGARAJ**

**INTERN SUPERVISOR**

**R&D Engineer**

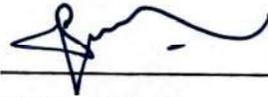
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**M.E., Ph.D.,**

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and

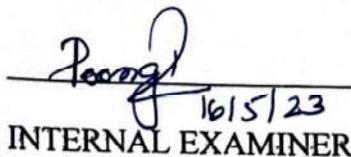
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Coimbatore Institute of  
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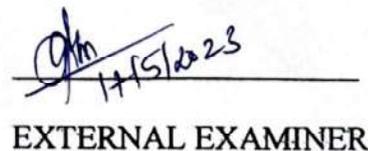
Coimbatore – 641 014.

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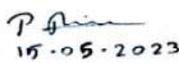
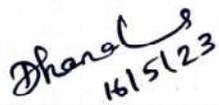
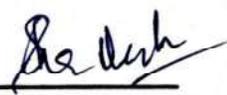
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**ANNA UNIVERSITY : CHENNAI 600 025**

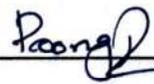
**BONAFIDE CERTIFICATE**

Certified that this project report “**CROSS-BROWSER AUDITING TOOL**”  
is the bonafide work of “**SUKUMAR A S (1904057)**”, who carried out the  
project under my supervision.

 15-05-2023	 16/5/23	
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<b>Mr. P. PATRICK</b>	<b>Mrs.S. DHANALAKSHMI,M.E.,</b>	<b>Dr. S.UMA MAHESWARI</b>
<b>INTERN SUPERVISOR</b>	<b>SUPERVISOR</b>	<b>M.E., Ph.D.,</b>
<b>REPORTING MANAGER</b>	<b>Assistant Professor</b>	<b>PROFESSOR AND HEAD</b>
Zoho Corporation, Estancia IT Park, Chengalpattu, Tamil Nadu 603202.	Department of Electronics and Communication Engineering, Coimbatore Institute of Technology, Coimbatore – 641 014.	Department of Electronics and Communication Engineering, Coimbatore Institute of Technology, Coimbatore – 641 014.

Submitted for **19EC81 Project Phase II and Viva-Voce** held on

16-05-2023

  
16/5/23

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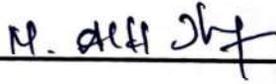
**EXTERNAL EXAMINER**

**COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE – 641014**  
(Government aided Autonomous Institution Affiliated to Anna University, Chennai)

**ANNA UNIVERSITY : CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this report “**HANDWRITTEN DIGIT RECOGNITION USING CONVOLUTIONAL NEURAL NETWORK**” is the Bonafide work of **S. SUVETHA (1904059)** who carried out the project work under my supervision.



**SIGNATURE**

**Ms. M. ABITHA THANGAM M.E.,  
SUPERVISOR**

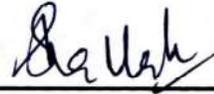
Assistant Professor

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**Dr. S. UMA MAHESWARI M.E., Ph.D.,  
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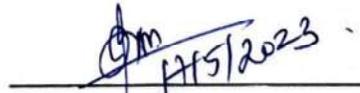
Coimbatore – 641 014.

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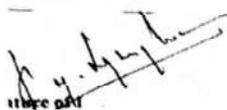
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**ANNA UNIVERSITY : CHENNAI 600 025**

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Certified that this report “**WEB BASED BANK LOAN APPLICATION DEVELOPMENT**” is the Bonafide work of **SWETHA S (1904060)** who carried out the project work under my supervision.



**SIGNATURE**

**Mr. K. V. MOZHI ARASAN**

**INTERN SUPERVISOR**

**KANINI SOFTWARE**

**SOLUTIONS,**

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**Sholinganallur ,**

**Chennai-600 119**



**SIGNATURE**

**Dr. P. SATHEESH KUMAR,**  
**M.E., Ph.D.,**

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**Dr. S. UMA MAHESWARI**  
**M.E., Ph.D.,**

**PROFESSOR AND HEAD**

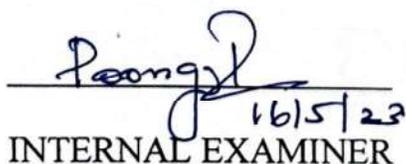
**Department of Electronics**  
**and Communication**  
**Engineering,**

**Coimbatore Institute of**  
**Technology,**

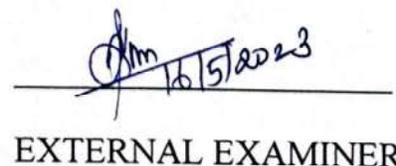
**Coimbatore – 641 014.**

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16/5/23



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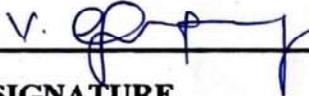
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Certified that this report “**HANDWRITTEN DIGIT RECOGNITION USING CONVOLUTIONAL NEURAL NETWORK**” is the Bonafide work of **S. V. HARRISHKUMAR (2004201)** who carried out the project work under my supervision.

  
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**SIGNATURE**

**Ms. V. GOWRI PRIYAA M.E.,**

**SUPERVISOR**

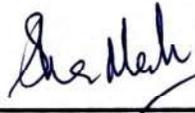
**Assistant Professor**

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**SIGNATURE**

**Dr. S.UMA MAHESWARI M.E., Ph.D.,**

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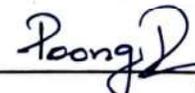
Communication Engineering,

Coimbatore Institute of Technology,

Coimbatore – 641 014.

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17/05/2023

  
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**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this report **“PROTECTION OF CROPS BASED ON BIRDS SOUND CLASSIFICATION”** is the Bonafide work of **V. KUMARESH (2004202)**, who carried out the project work under my supervision.

*M. Abitha Thangam*

*Dr. S. Uma Maheswari*

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**SIGNATURE**

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**SIGNATURE**

**Ms. M. ABITHA THANGAM M.E.,**

**Dr. S.UMA MAHESWARI M.E., Ph.D.,**

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Assistant Professor  
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*Pengal*

*Dr. S. Uma Maheswari*  
17/5/2023

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**INTERNAL EXAMINER**

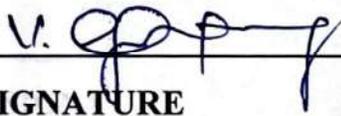
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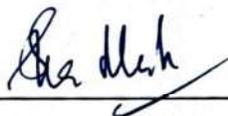
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**SIGNATURE**

**Ms. V. GOWRI PRIYAA M.E.,**  
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Assistant Professor  
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Coimbatore Institute of Technology,  
Coimbatore – 641 014.

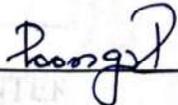
  
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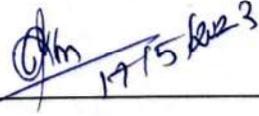
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**Dr. S.UMA MAHESWARI M.E., Ph.D.,**  
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Coimbatore – 641 014.

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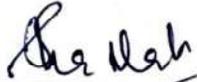
  
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Certified that this report “IMPLEMENTATION OF SUPPLY CHAIN AND LOGISTICS MANAGEMENT USING BLOCKCHAIN” is the bonafide work of **ABISHEAK S (1904063)** who carried out the project work under my supervision.



\_\_\_\_\_  
**SIGNATURE**

**Dr. S. UMA MAHESWARI, M.E., Ph.D.,**

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**SIGNATURE**

**Dr. S.UMA MAHESWARI, M.E., Ph.D.,**

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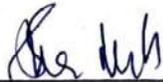
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Coimbatore Institute of Technology,

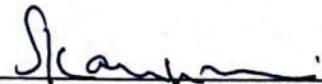
Coimbatore – 641 014.

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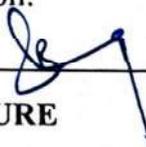
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**ANNA UNIVERSITY : CHENNAI 600 025**

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Certified that this report “IMPLEMENTATION OF SUPPLY CHAIN AND LOGISTICS MANAGEMENT USING BLOCKCHAIN” is the bonafide work of MANIGANDAN S(1904088) who carried out the project work under my supervision.

  
\_\_\_\_\_  
SIGNATURE

**Dr. B. BHUVANESHWARI M.E., Ph.D.,**

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Assistant Professor,  
Department of Electronics and  
Communication Engineering,  
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Coimbatore – 641 014.

  
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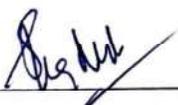
**Dr. S.UMA MAHESWARI, M.E., Ph.D.,**

**PROFESSOR AND HEAD**

Department of Electronics and  
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Coimbatore Institute of Technology,  
Coimbatore – 641 014.

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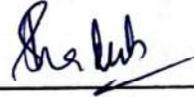


\_\_\_\_\_  
SIGNATURE

**Dr. P.SATHEESH KUMAR, M.E., Ph.D.,**

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Assistant Professor,  
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**Dr. S.UMA MAHESWARI, M.E., Ph.D.,**

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Department of Electronics and  
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Coimbatore – 641 014.

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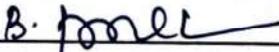
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EXTERNAL EXAMINER

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\_\_\_\_\_

**SIGNATURE**

**Dr. B.PREMALATHA, M.E., Ph.D.,**

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Assistant Professor,  
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**SIGNATURE**

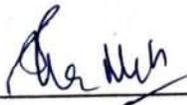
**Dr. S.UMA MAHESWARI, M.E., Ph.D.,**

**PROFESSOR AND HEAD**

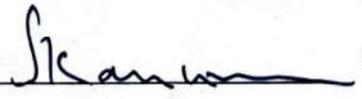
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Coimbatore – 641 014.

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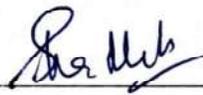
Certified that this report “IMPLEMENTATION OF SUPPLY CHAIN AND LOGISTICS MANAGEMENT USING BLOCKCHAIN” is the bonafide work of **HARIHARAN S (2004206)** who carried out the project work under my supervision.

  
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**SIGNATURE**

**Mr. K.MURALIDHARAN, M.E.,**  
**SUPERVISOR**

Assistant Professor,  
Department of Electronics and  
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Coimbatore Institute of Technology,  
Coimbatore – 641 014.

  
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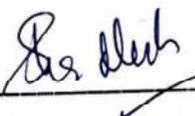
**SIGNATURE**

**Dr. S.UMA MAHESWARI, M.E., Ph.D.,**  
**PROFESSOR AND HEAD**

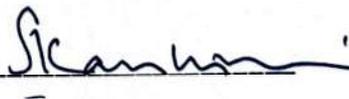
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**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this report “**LOAD BALANCING FOR NETWORK TRAFFIC IN LOCAL AREA NETWORK USING SDN**” is the Bonafide work of **DHINESH R (1904075)** who carried out the project work under my supervision.

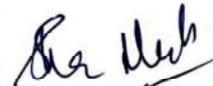


**SIGNATURE**

**Dr. T. BALAKUMARAN M.E.,  
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**SUPERVISOR**

Assistant Professor  
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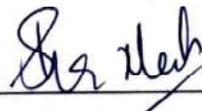
**SIGNATURE**

**Dr. S.UMA MAHESWARI, M.E., Ph.D.,  
PROFESSOR AND HEAD**

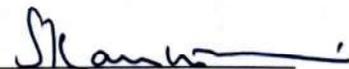
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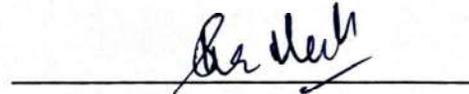
Certified that this report “**LOAD BALANCING FOR NETWORK TRAFFIC IN LOCAL AREA NETWORK USING SDN**” is the Bonafide work of **R. GOKUL (1904077)** who carried out the project work under my supervision.



**SIGNATURE**

**Ms. R. KALAIVANI, M.E.,**  
**SUPERVISOR**

Assistant Professor  
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Coimbatore Institute of Technology,  
Coimbatore – 641 014.



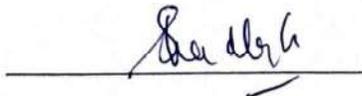
**SIGNATURE**

**Dr. S.UMA MAHESWARI, M.E.,**  
**Ph.D.,**

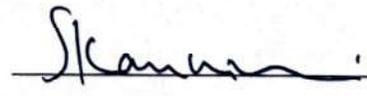
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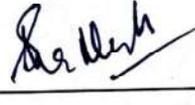


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**Dr. G. CHRISTINA M.E., Ph.D,**

**SUPERVISOR**

Assistant Professor  
Department of Electronics and  
Communication Engineering,  
Coimbatore Institute of Technology,  
Coimbatore - 641 014.



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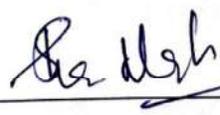
**Dr. S. UMA MAHESWARI M.E., Ph.D.,**

**PROFESSOR AND HEAD**

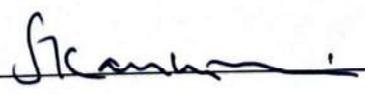
Department of Electronics and  
Communication Engineering,  
Coimbatore Institute of Technology,  
Coimbatore - 641 014.

Submitted for **19EC81 Project Phase II and Viva-Voce** held on

17-05-2023



**INTERNAL EXAMINER**



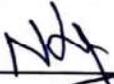
**EXTERNAL EXAMINER**

**COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE – 641014**  
(Government aided Autonomous Institution Affiliated to Anna University, Chennai)

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this report “**LOAD BALANCING FOR NETWORK TRAFFIC IN LOCAL AREA NETWORK USING SDN**” is the Bonafide work of **PRANEETH S (1904101)** who carried out the project work under my supervision.

  
\_\_\_\_\_

**SIGNATURE**

**Dr.N.DEEPÁ M.E.,Ph.D.,**

**SUPERVISOR**

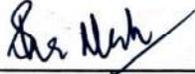
Assistant Professor

Department of Electronics and

Communication Engineering,

Coimbatore Institute of  
Technology,

Coimbatore – 641 014.

  
\_\_\_\_\_

**SIGNATURE**

**Dr. S.UMA MAHESWARI, M.E., Ph.D.,**

**PROFESSOR AND HEAD**

Department of Electronics and

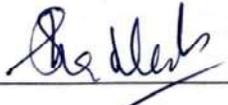
Communication Engineering,

Coimbatore Institute of Technology,

Coimbatore – 641 014.

Submitted for **19EC81 Project Phase II and Viva-Voce** held on

17.05.2023

  
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**INTERNAL EXAMINER**

  
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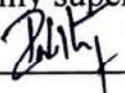
**EXTERNAL EXAMINER**

**COIMBATORE INSTITUTE OF TECHNOLOGY**  
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 COIMBATORE – 641014

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this report “**LOAD BALANCING FOR NETWORK TRAFFIC IN LOCAL AREA NETWORK USING SDN**” is the Bonafide work of **UDHAYAPRAKASH T (1904118)** who carried out the project work under my supervision.

  
 \_\_\_\_\_

**SIGNATURE**

**Ms. R. NITHYALAKSHMI, M.E.,**

**SUPERVISOR**

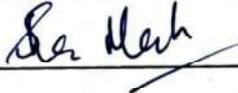
**ASSISTANT PROFESSOR**

Department of Electronics and

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Coimbatore – 641 014.

  
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**SIGNATURE**

**Dr. S. UMA MAHESWARI, M.E., Ph.D.,**

**HEAD OF THE DEPARTMENT**

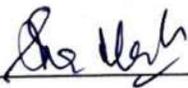
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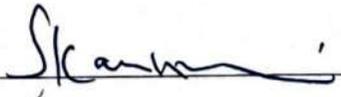
Coimbatore Institute of Technology,

Coimbatore – 641 014.

Submitted for **19EC81 Project Phase-II** held on 17-05-23

  
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**INTERNAL EXAMINER**

  
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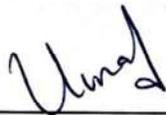
**EXTERNAL EXAMINER**

**COIMBATORE INSTITUTE OF TECHNOLOGY**  
(Government aided Autonomous Institution Affiliated to Anna University)  
COIMBATORE – 641014

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this report “SMART PARKING MANAGEMENT SYSTEM USING IMAGE PROCESSING” is the Bonafide work of AISHWARYA B (1904065) who carried out the project work under my supervision.



SIGNATURE

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

SUPERVISOR

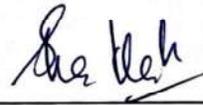
Professor

Department of Electronics and

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Coimbatore – 641 014.



SIGNATURE

Dr. S.UMA MAHESWARI M.E., Ph.D.,

PROFESSOR AND HEAD

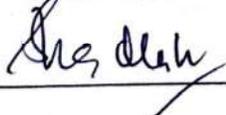
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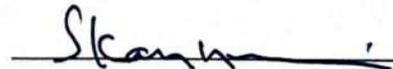
Coimbatore Institute of Technology,

Coimbatore – 641 014.

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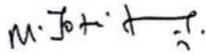
EXTERNAL EXAMINER

**COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE – 641014**  
(Government aided Autonomous Institution Affiliated to Anna University, Chennai)

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “**ARCHITECTURE COMPLIANCE SUITE FOR PSA\_M AND FF\_A**” is the bonafide work of “**ARTHI M. (1904068)**”, who carried out the project under my supervision.



**SIGNATURE**

**Mr. JOTHIKUMAR MANI**

**INTERN SUPERVISOR**

**TEAM MANAGER**

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Bangalore - 560048.



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

**SUPERVISOR**

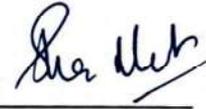
Professor

Department of Electronics and

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**Dr. S.UMA MAHESWARI  
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Technology,

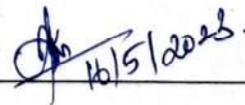
Coimbatore – 641 014.

**Submitted for 19EC81 Project Phase II and Viva-Voce held on**

16-05-2023



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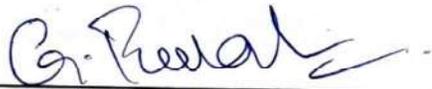
**EXTERNAL EXAMINER**

**COIMBATORE INSTITUTE OF TECHNOLOGY**  
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 COIMBATORE – 641014

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

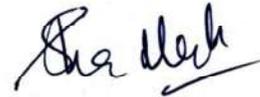
Certified that this report “SMART PARKING MANAGEMENT SYSTEM USING IMAGE PROCESSING” is the Bonafide work of **BAVITHRA GANESH S (1904072)** who carried out the project work under my supervision.



**SIGNATURE**

**Dr. G. PUVANESWARI M.E., Ph.D.,**  
**SUPERVISOR**

Assistant Professor (SG)  
 Department of Electronics and  
 Communication Engineering,  
 Coimbatore Institute of Technology,  
 Coimbatore – 641 014.

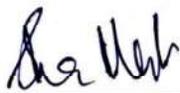


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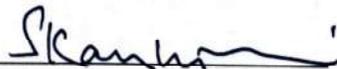
**Dr. S.UMA MAHESWARI M.E., Ph.D.,**  
**PROFESSOR AND HEAD**

Department of Electronics and  
 Communication Engineering,  
 Coimbatore Institute of Technology,  
 Coimbatore – 641 014.

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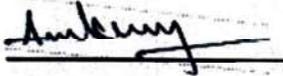
**EXTERNAL EXAMINER**

**COIMBATORE INSTITUTE OF TECHNOLOGY**  
 (Government aided Autonomous Institution Affiliated to Anna University)  
 COIMBATORE – 641014

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this report “**AUTOMATED RECRUITMENT**” is the Bonafide work of **B ARUNAGIRISH (1904069)** who carried out the project work under my supervision.



**SIGNATURE**

**ANIL KUMAR  
KUNTAMUKKALA**

**INTERN SUPERVISOR**

Associate Manager  
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 Karnataka.



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**Dr. I.S AKILA M.E., Ph.D.,**

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 Department of Electronics and  
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 Coimbatore – 641 014.



**SIGNATURE**

**Dr. S.UMA MAHESWARI  
M.E., Ph.D.,**

**PROFESSOR AND HEAD**

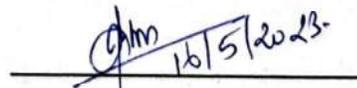
Department of Electronics  
 and  
 Communication Engineering,  
 Coimbatore Institute of  
 Technology,  
 Coimbatore – 641 014.

Submitted for **19EC81 Project Phase II and Viva-Voce** held on

16.05.2023



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COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE – 641014  
(Government aided Autonomous Institution Affiliated to Anna University, Chennai)

ANNA UNIVERSITY: CHENNAI 600 025

**BONAFIDE CERTIFICATE**

Certified that this project report “3GPP PROTOCOL CARRIER ACCEPTANCE TESTING FOR OPERATOR X” is the bonafide work of “ASHUTOSH DEB (1904070)”, who carried out the project under my supervision.



SIGNATURE

Mr. K. KANAGARAJ

INTERN SUPERVISOR

R&D Engineer

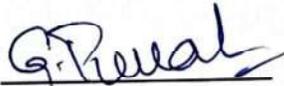
Keysight

Technologies

Cessna Business Park,

Kadubeesanahalli,

Bengaluru- 560103.



SIGNATURE

Mr. G. PUVANESWARI  
M.E., Ph.D.,

SUPERVISOR

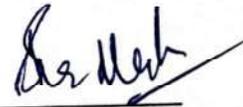
Assistant Professor (SG)

Department of Electronics and

Communication Engineering,

Coimbatore Institute of  
Technology,

Coimbatore – 641 014.



SIGNATURE

Dr. S.UMA MAHESWARI  
M.E., Ph.D.,

PROFESSOR AND HEAD

Department of Electronics  
and

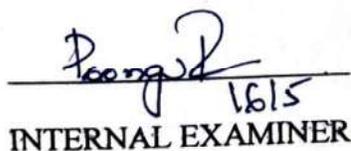
Communication  
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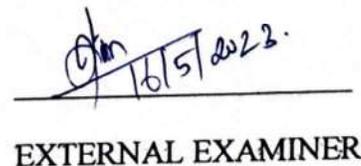
Coimbatore – 641 014.

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16/05/2023



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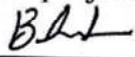
EXTERNAL EXAMINER

**COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE – 641014**  
(Government aided Autonomous Institution Affiliated to Anna University, Chennai)

**ANNA UNIVERSITY : CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

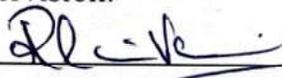
Certified that this project report “**Electric Vehicle Controller Design and Testing**” is the bonafide work of “**JEEVARAJ. M (1904082)**”, who carried out the project under my supervision.



**SIGNATURE**

**Mr. SURESH KUMAR B**  
**INTERN SUPERVISOR**

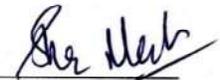
**SONA COMSTAR**  
Keelakaranai Village,  
Malrosapuram Post,  
Maraimalai Nagar, Tamil  
Nadu - 603204



**SIGNATURE**

**Ms. R. KALAIVANI M.E.,**  
**SUPERVISOR**

Assistant Professor  
Department of Electronics and  
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Coimbatore Institute of  
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Coimbatore – 641 014.



**SIGNATURE**

**Dr. S.UMA MAHESWARI**  
**M.E., Ph.D.,**  
**PROFESSOR AND HEAD**

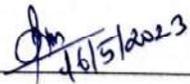
Department of Electronics  
and  
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Coimbatore – 641 014.

Submitted for **19EC81 Project Phase II and Viva-Voce** held on

16 - 05 - 2023



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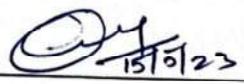
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COIMBATORE – 641014

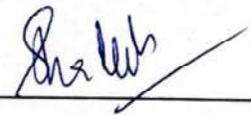
**ANNA UNIVERSITY: CHENNAI 600 025**

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Certified that this report “**DETECTION OF ANOMALY BASED DATA BREACH IN THE NETWORK USING MACHINE LEARNING**” is the bonafide work of **LOGESHWARI R (1904086)** who carried out the project work under my supervision.

  
15/5/23

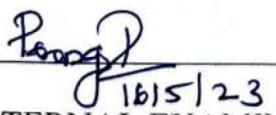
\_\_\_\_\_  
**SIGNATURE**  
**Dr. G. CHRISTINA M.E., Ph.D.,**  
**SUPERVISOR**  
Assistant Professor  
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Coimbatore Institute of Technology,  
Coimbatore – 641 014.



\_\_\_\_\_  
**SIGNATURE**  
**Dr. S. UMA MAHESWARI, M.E.,**  
**Ph.D.,**  
**PROFESSOR AND HEAD**  
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Coimbatore Institute of Technology,  
Coimbatore – 641 014.

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16/5/2023

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**ANNA UNIVERSITY : CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this report “**IT-ENABLED FISHERMAN SUPPORT SYSTEM**” is the Bonafide work of “**MOHAN RAJ M (1904090)**” who carried out the project work under my supervision.



**SIGNATURE**

**Mr. VIJAY  
SHYAMPYARE  
MOURYA**

**INTERN SUPERVISOR  
TECHNICAL PROJECT  
MANAGER**

Tekion  
3 & 4 Floor, Bagmane  
Solarium City P.No.39 &  
40, Doddanekundi Village,  
Bangalore KA 560037

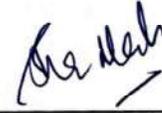


**SIGNATURE**

**Ms. M. RAMYA  
M.E.,**

**SUPERVISOR**

Assistant Professor  
Department of Electronics and  
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Coimbatore Institute of  
Technology,  
Coimbatore – 641 014.



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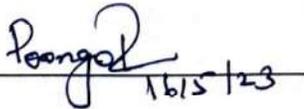
**Dr. S.UMA  
MAHESWARI M.E.,  
Ph.D.,**

**PROFESSOR AND  
HEAD**

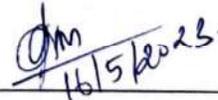
Department of Electronics and  
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Coimbatore – 641 014.

Submitted for **19EC81 Project Phase II and Viva-Voce** held on

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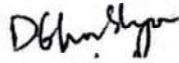
**EXTERNAL EXAMINER**

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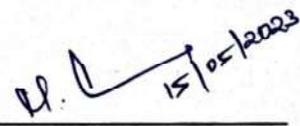
**BONAFIDE CERTIFICATE**

Certified that this project report **“DATANYX - A BUSINESS INTELLIGENCE SOFTWARE”** is the bonafide work of **“MOHANAPPRIYA K (1904091)”**, who carried out the project under my supervision.



**SIGNATURE**

**Mr. GHAN SHYAM**  
**INTERN SUPERVISOR**  
**PRODUCT ENGINEER**  
Tekizma India Solutions Pvt  
Ltd.  
Bangalore- 560078



**SIGNATURE**

**Ms. M. Ramya M.E.,**  
**SUPERVISOR**  
Assistant Professor  
Department of Electronics and  
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Coimbatore Institute of  
Technology,  
Coimbatore – 641 014.



**SIGNATURE**

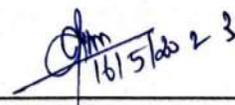
**Dr. S.UMA MAHESWARI**  
**M.E., Ph.D.,**  
**PROFESSOR AND HEAD**  
Department of Electronics  
and  
Communication Engineering,  
Coimbatore Institute of  
Technology,  
Coimbatore – 641 014.

**Submitted for 19EC81 Project Phase II and Viva-Voce held on**

16 - 05 - 2023



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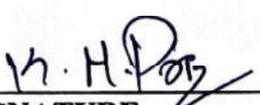
COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE – 641014  
(Government aided Autonomous Institution Affiliated to Anna University, Chennai)

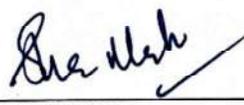
ANNA UNIVERSITY:CHENNAI 600 025

**BONAFIDE CERTIFICATE**

Certified that this project report “TEST DRIVEN DEVELOPMENT FRAMEWORK FOR FIXED INCOME CASH PRODUCT” is the bonafide work of “MOMIN SHAFI (1904092)”, who carried out the project under my supervision.

  
SIGNATURE  
ANTHONI LAWRANCE  
INTERN SUPERVISOR  
SENIOR MANAGER  
ADENZA  
CALYPSO India  
Pvt. Ltd.  
THOUSAND LIGHTS,  
CHENNAI – 600014.

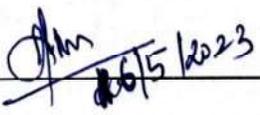
  
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Submitted for 19EC81 Project Phase II and Viva-Voce held on

16-05-2023

  
INTERNAL EXAMINER  
16/5/23

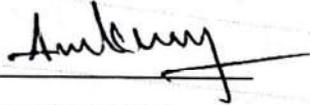
  
EXTERNAL EXAMINER  
16/5/2023

**COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE – 641014**  
(Government aided Autonomous Institution Affiliated to Anna University, Chennai)

**ANNA UNIVERSITY : CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “ITM/IPM INTELLIGENT PRICING MANAGEMENT” is the bonafide work of “NISHANTH A S (1904097)”, who carried out the project under my supervision.



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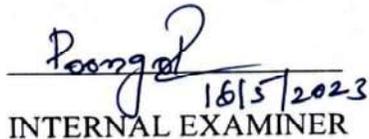
**Dr. S.UMA MAHESWARI  
M.E., Ph.D.,**

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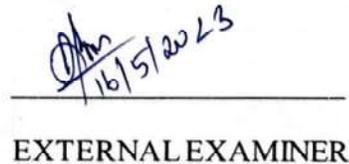
Department of Electronics and  
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Submitted for **19EC81 Project Phase II and Viva-Voce** held on

16.06.2023



**INTERNAL EXAMINER**



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**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this report “**DESIGN AND IMPLEMENTATION OF MINIATURIZED SSD FIRMWARE**” is the bonafide work of K.S.NITHIN BALAJI (1904098) who carried out the project work under my supervision.



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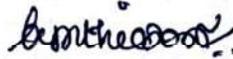
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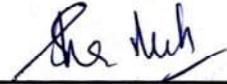
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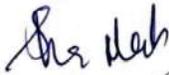
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Submitted for **19EC81 Project Phase-II** and Viva-Voce held on

17.05.2023



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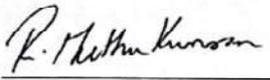
**EXTERNAL EXAMINER**

**COIMBATORE INSTITUTE OF TECHNOLOGY**  
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COIMBATORE – 641014

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this report “DESIGN AND IMPLEMENTATION OF MINIATURIZED SSD FIRMWARE” is the bonafide work of **UMAPRIYA SELVAM (1904119)** who carried out the project work under my supervision.



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**MANAGER**

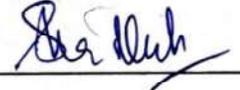
Toshiba Software India Pvt.  
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3A, Essae and Vaishnavi  
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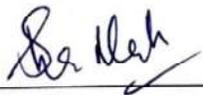


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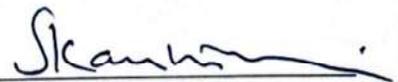
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**COIMBATORE INSTITUTE OF TECHNOLOGY**  
 (Government aided Autonomous Institution Affiliated to Anna University)  
 COIMBATORE – 641014

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this report “**DEVELOPMENT AND DEBUGGING IN DIRECTED VALIDATION ON CPU**” is the Bonafide work of **S.R. PRAVEEN RAJ (1904103)**, who carried out the project work under my supervision.



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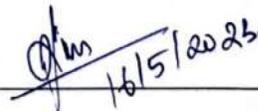
Coimbatore – 641 014.

Submitted for **19EC81 Project Phase II and Viva-Voce** held on

16.05.2023



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**COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE – 641014**  
(Government aided Autonomous Institution Affiliated to Anna University, Chennai)

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “DEVELOPING NBEXTENSION AS CONNECTOR IN JUPYTER NOTEBOOK” is the bonafide work of “PUSHKAR PANDEY (1904105)” who carried out the project under my supervision.



**SIGNATURE**

**Mr. TUSHAR SOOD**

**INTERN SUPERVISOR**

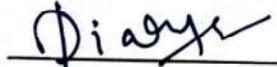
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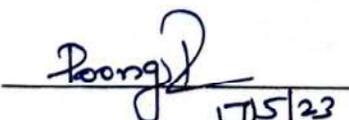
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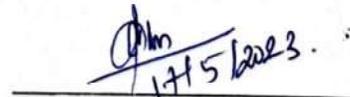
Coimbatore – 641 014.

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**ANNA UNIVERSITY : CHENNAI 600 025**

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Certified that this project report "AUTOMATED TEST CASE GENERATION FOR ASIC FLASH CONTROLLER VALIDATION" is the bonafide work of "RANGA KRISHNA PRASADH (1904106)", who carried out the project under my supervision.



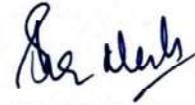
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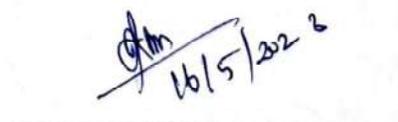
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Coimbatore – 641 014.

Submitted for 19EC81 Project Phase II and Viva-Voce held on

16-05-2023

  
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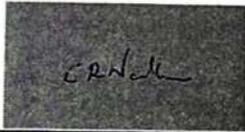
  
**EXTERNAL EXAMINER**

**COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE – 641014**  
(Government aided Autonomous Institution Affiliated to Anna University, Chennai)

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**BONAFIDE CERTIFICATE**

Certified that this project report “**FIRMWARE DESIGN LANGUAGE**” is the bonafide work of “**SURIYA C J (1904116)**”, who carried out the project under my supervision.



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**Mr.NARENTHIRAN C R**

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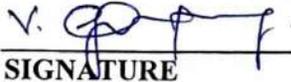
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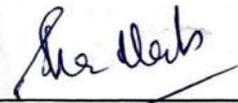
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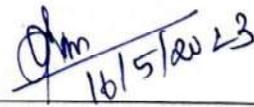
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16/05/2023



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(Government aided Autonomous Institution Affiliated to Anna University, Chennai)

**ANNA UNIVERSITY:CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “**BACKEND AND JSON SIMULATION OF LIBRARY MANAGEMENT SYSTEM ON AWS ELASTIC CLOUD COMPUTE**” is the bonafide work of “**SHERJEEL AMIN (1904111)**”, who carried out the project under my supervision.



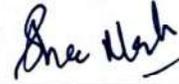
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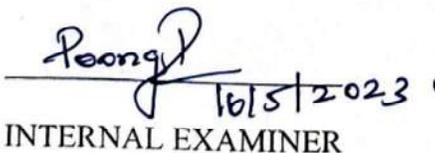


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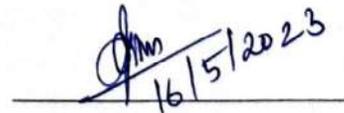
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16-05-2023



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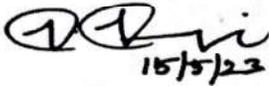
EXTERNAL EXAMINER

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**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “3GPP PROTOCOL CARRIER ACCEPTANCE TESTING FOR OPERATOR Z” is the bonafide work of “SHIRANJEEVI A (2004207)”, who carried out the project under my supervision.

  
15/5/23

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