



*Hindusthan College of Engineering and Technology*

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Valley Campus, Pollachi Highway, Coimbatore – 641 032



**BONAFIDE CERTIFICATE**

Certified that this project report “FETAL HEALTH CLASSIFICATION USING MACHINE LEARNING ALGORITHM” is the bonafide work of MONISH R (20104121), MOTHISH S (20104122), NIKHIL R (20104124), NITHISH KUMAR M (20104127) who carried out the project work under my supervision.

SIGNATURE

**Dr. P. PRIVIETHA,  
SUPERVISOR**

Computer Science and Engineering  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

SIGNATURE

**Dr SHANKAR S, M.E., Ph.D.,  
HEAD OF THE DEPARTMENT**

Computer Science and Engineering  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

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Submitted for the Anna University Project Phase II Viva-Voce conducted on 22/5/24

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**



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### BONAFIDE CERTIFICATE

Certified that this project report “ENSURING PERFORMANCE AND SECURITY THROUGH FAULT-TOLERANCE AND REPRODUCIBILITY IN CLOUD” is the bonafide work of KAMALESH S (20104101), KARTHICK J (20104104), S MADHUVANTH KANICHAN (20104113), MURUGANANTHAM D (20104123)” who carried out the project work under my supervision.



SIGNATURE

Ms SATHYA S, M.E.,  
SUPERVISOR

Assistant Professor  
Computer Science and Engineering  
Hindusthan College of Engineering and  
Technology, Coimbatore-32



SIGNATURE

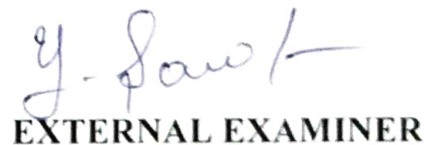
Dr SHANKAR S, M.E., Ph.D.,  
HEAD OF THE DEPARTMENT  
Computer Science and Engineering  
Hindusthan College of Engineering and  
Technology,  
Coimbatore-32

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Submitted for the Autonomous Institution Project Phase II Viva-Voce conducted on 22-05-2024



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## BONAFIDE CERTIFICATE

Certified that this project report “**APPROACH FOR TEST INPUT OPTIMIZATION AND PRIORITIZATION**” is the bonafide work of “**AKILAN K (20104071), JESUDOSS R (20104100), KAMALESHKUMAR M (20104102), and NIKITA ANKUSH PATIL (20104125)**” who carried out the project work under my supervision.



**SIGNATURE**

**Ms. S. SATHYA, M.E.,**  
**SUPERVISOR**  
Assistant Professor  
Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

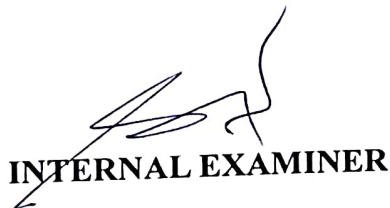


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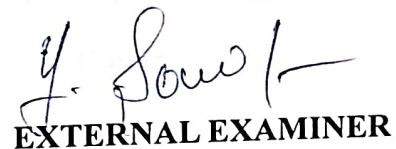
**Dr. S. SHANKAR, M.E., Ph.D.,**  
**HEAD OF THE DEPARTMENT**  
Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

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Submitted for the Autonomous Institution Project Phase II Viva-Voce conducted on 22-05-2024



**INTERNAL EXAMINER**



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### BONAFIDE CERTIFICATE

Certified that this project report “AN IMAGE BASED FIRE MONITORING ALGORITHM WITH IOT ENABLED MESSAGING SYSTEM” is the bonafide work of “AJAY GLADISON A (20104068), HARISH KB (20104096), HARISH KUMAR K (20104097), PRASSANTH VG (20104808)” who carried out the project work under my supervision.

**SIGNATURE**

Mr. Magesh D, M.E.,  
ASSISTANT PROFESSOR  
Computer Science and Engineering  
Hindusthan College of Engineering and  
Technology,  
Coimbatore-32

**SIGNATURE**

Dr SHANKAR S, M.E., Ph.D.,  
HEAD OF THE DEPARTMENT  
Computer Science and Engineering  
Hindusthan College of Engineering and  
Technology,  
Coimbatore-32

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Submitted for the Anna University Mini Project Viva-Voce conducted on 22-05-21

**INTERNAL EXAMINER**

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Valley Campus, Pollachi Highway, Coimbatore – 641 032



## BONAFIDE CERTIFICATE

Certified that this project report “**BLOCKCHAIN-ENABLED SECURE ELECTRONIC AUCTION PLATFORM**” is the bonafide work of “**DIVYA L (20104088), KANIGIVELAN S (20104103), MAHALAKSHMI S (20104114), and MEENA S K (20104118)**” who carried out the project work under my supervision.



**SIGNATURE**

**Mr. RAVIKUMAR, M. TECH., (Ph. D),**  
**ASSISTANT PROFESSOR,**  
Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32



**SIGNATURE**

**Dr. S. SHANKAR, M.E., Ph.D.,**  
**HEAD OF THE DEPARTMENT**  
Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32


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Submitted for the Autonomous Institution Project Phase II Viva-Voce conducted on

22-05-24



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Certified that this project report “**RESOURCE OPTIMIZATION IN CLOUD COMPUTING FOR PAYG USING SHA-256**” is the bonafide work of **BALAVIDHYA G (20104082)**, **KEERTHANA A J (20104108)**, **SIVARAMAKRISHNAN R (20104812)** who carried out this project under my supervision.

**SIGNATURE**

**Ms B REENA , M.E.,**

**SUPERVISOR**

Assistant Professor

Computer Science and Engineering

Hindusthan College of Engineering and

Technology, Coimbatore-32

**SIGNATURE**

**Dr SHANKAR S, M.E., Ph.D.,**

**HEAD OF THE DEPARTMENT**

Computer Science and Engineering

Hindusthan College of Engineering

and Technology, Coimbatore-32

Submitted for the Anna University Project Viva-Voce conducted on 22/05/24

**INTERNAL EXAMINER**

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## BONAFIDE CERTIFICATE

Certified that this project report “**EARLY DETECTION OF ALZHEIMER’S USING DEEP LEARNING**” is the bonafide work of “**ABHINRAJ K A (20104065), AQIB BAHIR (20104074), ASHOK K NAIR (20104079) and DELWIN SEBASTIAN (20104087)**” who carried out the project work under my supervision.

**SIGNATURE**

**Ms. M. UMAPRIYA, M.E.,**

**SUPERVISOR**

Assistant Professor

Computer Science and Engineering,

Hindusthan College of Engineering and

Technology, Coimbatore-32

**SIGNATURE**

**Dr. S. SHANKAR, M.E., Ph.D.,**

**HEAD OF THE DEPARTMENT**

Computer Science and Engineering,

Hindusthan College of Engineering and

Technology, Coimbatore-32

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Submitted for the Autonomous Institution Project Phase II Viva-Voce conducted on 22/08/24

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### BONAFIDE CERTIFICATE

Certified that this project report “PREDICTION OF METAL OXIDE NANOPARTICLES FOR ANTICANCER DRUG DELIVERY USING MACHINE LEARNING” is the bonafide work of “BALAMURUGAN R (20104081), BALAJI P (20104083), JEEVA A (20104099), MATHESWARAN H (20104805)” who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.



SIGNATURE

**Mr RAVIKUMAR M, M.E., (Ph.D.,)**  
**SUPERVISOR**  
Assistant Professor  
Computer Science and Engineering  
Hindusthan College of Engineering  
and Technology, Coimbatore-32



SIGNATURE

**Dr SHANKAR S, M.E., Ph.D.,**  
**HEAD OF THE DEPARTMENT**  
Computer Science and Engineering  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

Submitted for the Autonomous Institution Project Phase II Viva-Voce conducted on 22/05/2024



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## BONAFIDE CERTIFICATE

Certified that this project report “**DYSARTHRIA SPEECH RECOGNITION USING NEURAL NETWORK**” is the bonafide work of “**AHMED IBRAHIM M (20104067), HARIHARAN D (20104095), HARI GANESH T (20104094), and GOWTHAM PRASHATH P (20104092)**” who carried out the project work under my supervision.

  
SIGNATURE

Ms.S.SATHYA, M.E.,

SUPERVISOR

Assistant Professor

Computer Science and Engineering,

Hindusthan College of Engineering and

Technology, Coimbatore-32

  
SIGNATURE

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

HEAD OF THE DEPARTMENT

Computer Science and Engineering,

Hindusthan College of Engineering and

Technology, Coimbatore-32

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## BONAFIDE CERTIFICATE

Certified that this project report “A SYSTEMATIC REVIEW OF FACIAL EXPRESSION DETECTION METHODS” is the bonafide work of “ARUN KUMAR B (20104078), KARUPPASAMY K (20104105), NITHISHKUMAR M (20104126), and SHABARI ANAND R (20104810)” who carried out the project work under my supervision.

  
SIGNATURE

**Dr. M. AMUTHA, Ph.D.,**  
**SUPERVISOR**  
Professor,  
Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

  
SIGNATURE

**Dr. S. SHANKAR, M.E., Ph.D.,**  
**HEAD OF THE DEPARTMENT**  
Computer Science and Engineering,  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

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Submitted for the Autonomous Institution Project Phase II Viva-Voce conducted on 22/05/24

  
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Certified that this project report “SIGN LANGUAGE DETECTION SYSTEM” is the bonafide work of “LENINKUMAR (20104112), KAVIPRIYAN (20104106), ANNAMALAIESWARAN (20104073), ESAKKI SURYA (20104089)” who carried out the project work under my supervision.

SIGNATURE

Dr.P.PRIVIETHA

SUPERVISOR,

ASSISTANT PROFESSOR

Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

SIGNATURE

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

HEAD OF THE DEPARTMENT

Computer Science and Engineering,  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

Submitted for the Autonomous Institution Project Phase - II Viva-Voce

conducted on 22/05/2024

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## BONAFIDE CERTIFICATE

Certified that this project report “**ENHANCING INSURANCE ASSESSMENTS DEEP LEARNING FOR VEHICLE DAMAGE INTENSITY PREDICTION FROM UNCONSTRAINED MOBILE IMAGERY**” is the bonafide work of “**ARUN D (20104076), LAKSHMAN V R (20104111), MANIKANDAN B (20104117), and MOHAMED ZAID (20104119)**” who carried out the project work under my supervision.

SIGNATURE

Mr.T.K.P RAJAGOPAL, M.E.,(Ph.D),

SUPERVISOR

Assistant Professor

Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

SIGNATURE

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

HEAD OF THE DEPARTMENT

Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology,Coimbatore-32

---

Submitted for the Autonomous Institution Project Phase II Viva-Voce conducted on 22/05/2024

INTERNAL EXAMINER

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Certified that this project report “**CYBER BULLING DETECTION USING MACHINE LEARNING** ” is the bonafide work of “**MOHAMMED RISHAN P (20104120), NIVED PK (20104128), and NARAYANAN K (20104806)**” who carried out the project work under my supervision.

  
SIGNATURE

**Mrs. N. PRIYA. M.E.,**

**SUPERVISOR**

Assistant Professor

Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

  
SIGNATURE

**Dr. S. SHANKAR, M.E., Ph.D.,**

**HEAD OF THE DEPARTMENT**

Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

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Submitted for the Autonomous Institution Project Phase II Viva-Voce conducted on \_\_\_\_\_

  
INTERNAL EXAMINER

  
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Valley Campus, Pollachi Highway, Coimbatore – 641 032



### BONAFIDE CERTIFICATE

Certified that this project report “SENTIMENT ANALYSIS IN E-COMMERCE PLATFORMS” is the bonafide work of “ANJALI V (20104072), ATCHAYA T (20104080), GNANAPPIRATHIBA J (20104090), SANTHIYA K (20104602)” who carried out the project work under my supervision.

SIGNATURE

Ms.R Gayathri, M.E.,

SUPERVISOR

Assistant Professor

Computer Science and Engineering

Hindusthan College of Engineering

and Technology Coimbatore- 32

SIGNATURE

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

HEAD OF THE DEPARTMENT

Computer Science and Engineering

Hindusthan College of engineering

and Technology, Coimbatore- 32

---

Submitted for the Autonomous Institution Project Viva-Voice conducted  
on 22.05.2024

INTERNAL EXAMINER

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Certified that this project report “**DEEP LEARNING FOR PREDICTION OF DEPRESSIVE SYMPTOMS IN A LARGE TEXTUAL DATASET**” is the bonafide work of **BRITTO B (20104085), HARUN SHAREEF U(20104098), MAHESWARAN J (20104115), ARSATHPARVEZ A(20104802)** who carried out this project under my supervision.

  
**SIGNATURE**

**Ms. S SATHYA , M.E.,**  
**SUPERVISOR**  
Assistant Professor  
Computer Science and Engineering  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

  
**SIGNATURE**

**Dr SHANKAR S, M.E., Ph.D.,**  
**HEAD OF THE DEPARTMENT**  
Computer Science and Engineering  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

Submitted for the Anna University Project Viva-Voce conducted on 22.05.2024

  
**INTERNAL EXAMINER**

  
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Certified that this project report "DIGITAL GRIEVANCE RESOLUTION PLATFORM" is the bonafide work of "AJAY R (20104076), DELHI GANESH V (20104086), GOKULAN V (20204091), GURUPRASAD V (20104093)" who carried out the project work under my supervision

  
SIGNATURE

Ms SATHYA S, M.E.,  
SUPERVISOR  
Assistant Professor  
Computer Science and Engineering  
Hindusthan College of Engineering and  
Technology, Coimbatore-32


  
SIGNATURE

Dr SHANKAR S, M.E., Ph.D.,  
HEAD OF THE DEPARTMENT  
Computer Science and Engineering  
Hindusthan College of Engineering and  
Technology,  
Coimbatore-32

---

Submitted for the Autonomous Institution Project Phase II Viva-Voce conducted on 21.06.24

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER



## HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

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### BONAFIDE CERTIFICATE

Certified that this project report "DECENTRALISED BLOOD DONATION NETWORK-ENHANCING TRANSPARENCY AND EFFICIENCY IN BLOOD DONATION " is the bonafide work of "ARUN J (20104077) , BALASUBRAMANI V (20104084) , KEERTHIRAJ K (10104109), KRISHNAPRASATH (20104110)" who carried out the mini project work under my supervision.

SIGNATURE

Dr T.K.P RAJAGOPAL, M.E.,

SUPERVISOR

Assistant Professor

Computer Science and Engineering

Hindusthan College of Engineering and

Technology, Coimbatore-32

  
SIGNATURE

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

HEAD OF THE DEPARTMENT

Computer Science and Engineering

Hindusthan College of Engineering and

Technology, Coimbatore-32

Submitted for the University Project Viva Voce examination conducted on

22.05.2024

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER



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Valley Campus, Pollachi Highway, Coimbatore – 641 032



### BONAFIDE CERTIFICATE

Certified that this project report “**HEALTHCARE LOGISTICS**” is the bonafide work of “**MANIBHARATHI R (20104116) , ABISHEK S (20104066) , ARASAGURU A (20104075) , SHEIK ABDULLA (20104811)** who carried out the project work under my supervision.

**SIGNATURE**

**MR . ARULSELVAM, M.E.,**

Assistant Professor

Computer Science and Engineering  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

**SIGNATURE**

**Dr. S. SHANKAR, M.E., Ph.D.,**

**HEAD OF THE DEPARTMENT**

Computer Science and Engineering  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

---

Submitted for the Autonomous Institution Project Phase II Viva-Voce conducted on 22-05-2024

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**



**Hindusthan College of Engineering And Technology**

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(An Autonomous Institution. Affiliated to Anna University, Chennai)  
Valley Campus, Pollachi Highway, Coimbatore – 641 032



## **BONAFIDE CERTIFICATE**

Certified that this project report “**MACHINE LEARNING FOR DISEASE PREDICTION USING SYMPTOMS**” is the bonafide work of “**AKHIL MLRALEEDHARAN (20104006), DANIEL K SHAJI (20104014), GOKUL KRISHNA V (20104026), VINAY GOVINRAJA PRASAD (20104063)** who carried out the project work under my supervision.

**SIGNATURE**

**Dr. S. SHANKAR, M.E., Ph.D.,**

**HEAD OF THE DEPARTMENT**

Computer Science and Engineering  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

**SIGNATURE**

**Dr. S. SHANKAR, M.E., Ph.D.,**

**HEAD OF THE DEPARTMENT**

Computer Science and Engineering  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

---

Submitted for the Autonomous Institution Project Based Learning Viva-Voce  
conducted on 22/5/24

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**

*(Dr. V. Anandaraman)*



# Hindusthan College of Engineering and Technology

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Valley Campus, Pollachi Highway, Coimbatore – 641 032



## BONAFIDE CERTIFICATE

Certified that this project report “AN EFFICIENT SPAM DETECTION TECHNIQUE USING MACHINE LEARNING” is the bonafide work of “DEEKSHITH G H(20104015), DEENADAYALAN S (20104016), HEAMNATH N (20104028), MUKESHKANNA M (20104043)” who carried out the projectwork under my supervision.

SIGNATURE

Mr. R. Jayaraj, M.E

SUPERVISOR,

Associate Professor

Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

SIGNATURE

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

HEAD OF THE DEPARTMENT

Computer Science and Engineering,  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

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Submitted for the Autonomous Institution Project Phase - 2 Viva-Voce

conducted on 22.5.24

INTERNAL EXAMINER

EXTERNAL EXAMINER

(Dr. V. Arulmozhi)



# Hindusthan College of Engineering And Technology

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(An Autonomous Institution, Affiliated to Anna University, Chennai)

Valley Campus, Pollachi Highway, Coimbatore – 641 032



## BONAFIDE CERTIFICATE

Certified that this project report “CHARGING SLOT PREDICTION AND AUTOMATION SYSTEM FOR ELECTRIC VEHICLE CHARGING STATION” is the bonafide work of “AVELONA SHAJI (20104013), MOHAMMED RAHEES VR (20104039), MUHAMMED SAFNAS (201040), NANDUKRISHNA K (20104044) who carried out the project work under my supervision.

SIGNATURE

Ms. B REENA, M.E.,

SUPERVISOR

Assistant Professor

Computer Science and Engineering  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

SIGNATURE

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

HEAD OF THE DEPARTMENT

Computer Science and Engineering  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

Submitted for the Autonomous Institution Project Based Learning Viva-Voce  
conducted on 22-05-24

INTERNAL EXAMINER

EXTERNAL EXAMINER

(Dr. V. ARUMUZHAI)



# Hindusthan College of Engineering and Technology

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(An Autonomous Institution, Affiliated to Anna University, Chennai)  
Valley Campus, Pollachi Highway, Coimbatore - 641 032



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Certified that this project report "D2C INFO-GRAPHICS" is the bonafide work of "YOSHITHA SRI H A (20104064)" who carried out the project work under my supervision.

SIGNATURE

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

SUPERVISOR

Professor

Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

SIGNATURE

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

HEAD OF THE DEPARTMENT

Computer Science and Engineering,  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

Submitted for the Autonomous Institution Project Phase II Viva-Voce  
conducted on 22/05/2024

INTERNAL EXAMINER

  
22/5/24

EXTERNAL EXAMINER

(Dr. V. Arun Kumar)



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(An Autonomous Institution, Affiliated to Anna University, Chennai)  
Valley Campus, Pollachi Highway, Coimbatore – 641 032



## BONAFIDE CERTIFICATE

Certified that this project report “HOME AUTOMATION SYSTEM” is the bonafide work of “ANISHA S C (20104009)” who carried out the project work under my supervision.

**SIGNATURE**

**Mrs. M. Uma Priya, M.E**

**SUPERVISOR,**

Assistant Professor

Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

**SIGNATURE**

**Dr. S. SHANKAR, M.E., Ph.D.,**

**HEAD OF THE DEPARTMENT**

Computer Science and Engineering,  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

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Submitted for the Autonomous Institution Project Phase - 2 Viva-Voce  
conducted on 22.05.2024

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**

(Dr. V. Arun Kumar)





# Hindusthan College of Engineering and Technology

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(An Autonomous Institution, Affiliated to Anna University, Chennai)

Valley Campus, Pollachi Highway, Coimbatore - 641 032



## BONAFIDE CERTIFICATE

Certified that this project report "YOLOv8 SYNCHRONISED VIGILANCE FOR DRIVERS" is the bonafide work of "GANESH R (20104025), ANURANJAN GS (20104010), KALAIYARASAN K (20104034), DEVASUNDAR M (20104020)" who carried out the project work under my supervision.

SIGNATURE

Ms. SREELEKHA K V, M.Tech.,

SUPERVISOR,

Assistant Professor,

Computer Science and Engineering,

Hindusthan College of Engineering

And Technology, Coimbatore-32

SIGNATURE

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

HEAD OF THE DEPARTMENT

Computer Science and Engineering,

Hindusthan College of Engineering

and Technology, Coimbatore-32

---

Submitted for the Autonomous Institution Project Phase - II Viva-Voce conducted  
on 22-05-24

INTERNAL EXAMINER

EXTERNAL EXAMINER

(Dr. R. Arulmozhi)



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## BONAFIDE CERTIFICATE

Certified that this project report “**FAKE NEWS DETECTION BY USING NATURAL LANGUAGE PROCESSING**” is the bonafide work of “**ESHAM RISHAL (20104023), SHAHIZ SHAHEER (20104055), DEVAKRISHNA P P (20104019), SANKARANARAYANAN K (20104053)** who carried out the project work under my supervision.

**SIGNATURE**

**Mrs.N. PRIYA. M.E.,**

**SUPERVISOR**

Associate Professor  
Computer Science and Engineering  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

**SIGNATURE**

**Dr. S. SHANKAR, M.E., Ph.D.,**

**HEAD OF THE DEPARTMENT**

Computer Science and Engineering  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

---

Submitted for the Autonomous Institution Project Based Learning Viva-Voce  
conducted on 22/5/24

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**

(Dr. V. ARULMOZH) 22/5/24



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## BONAFIDE CERTIFICATE

Certified that this project report "SPEECH EMOTION RECOGNITION USING MACHINE LEARNING" is the bonafide work of ARJUN GIREESH (20104011), FARHAN NASEER AHMED (20104024), RASHAD KP (20104048), JITHIN RALF JUSTIN (20104033) who carried out the project work under my supervision.

**SIGNATURE**

**Mrs. AMUTHAVALLI M, M.E.,**

**SUPERVISOR**

Assistant Professor  
Computer Science and Engineering  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

**SIGNATURE**

**Dr. S. SHANKAR, M.E., Ph.D.,**

**HEAD OF THE DEPARTMENT**

Computer Science and Engineering  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

---

Submitted for the Autonomous Institution Project Phase-2 Viva-Voce

conducted on 02/05/24

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**

(Dr. V. ARUNMOORTHY)



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## BONAFIDE CERTIFICATE

Certified that this project report "CNN-BASED HAND GESTURE RECOGNITION SYSTEM" is the bonafide work of "DEEPAN P (20104017), DHARANIVEL L (20104022), JERAL MEIJO H (20104032), MONOJIT BHATTACHARYA M (20104040)" who carried out the project work under my supervision.

**SIGNATURE**

**DR M. AMUTHA M.Tech.Ph.D**

**SUPERVISOR,**

Assistant Professor,

Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

**SIGNATURE**

**Dr. S. SHANKAR, M.E., Ph.D.,**

**HEAD OF THE DEPARTMENT**

Computer Science and Engineering,  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

Submitted for the Autonomous Institution Project Phase - II Viva-Voce  
conducted on 22.5.2024

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**

(Dr. V. Arulmozhi)



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University, Chennai) Valley Campus, Pollachi Highway,  
Coimbatore – 641 032



### BONAFIDE CERTIFICATE

Certified that this Phase II project report “AN AI DRIVEN SYSTEM FOR PORTFOLIO MANAGEMENT” is the bonafide work of “HARSHAVARDHAN SURYA B S, INBAKUMAR R, SANTHOSHKUMAR K, SUNDARESA RAGAVAN S” who carried out the project work under my supervision.

*D. Magesh*

#### SUPERVISOR

**D. MAGESH, M.E.,**

ASSISTANT PROFESSOR,

Department of Computer Science & Engineering

Hindusthan College of Engineering &

Technology, Coimbatore-641032

*S. Shankar*

#### HEAD OF THE DEPARTMENT

**Dr. SHANKAR, Ph.D.,**

PROFESSOR AND HEAD,

Department of Computer Science & Engineering

Hindusthan College of Engineering &

Technology, Coimbatore-641032

Submitted for the Autonomous Institution Phase II Viva-Voce exam held on

22/05/2024

*A. J. S.*  
*22/05/2024*

**INTERNAL EXAMINER**

*V. Arulmozhi*  
*22/5/24*

**EXTERNAL EXAMINER**

(Dr: V. ARULMOZHI)



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## BONAFIDE CERTIFICATE

Certified that this project report “ANTI-FACE SPOOFING SYSTEM” is the bonafide work of “ADHITTHAN R(20104005) ,ABDUL ASKAR S(20104001),SURYA M(201040058),DEVANAND E(20104018)” who carried out the project work under my supervision.

SIGNATURE

Mr.T.K.P RAJAGOPAL,M.E.,Ph.D.,

SUPERVISOR,

Associate Professor

Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

SIGNATURE

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

HEAD OF THE DEPARTMENT

Computer Science and Engineering,  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

Submitted for the Autonomous Institution Project Phase - 2 Viva-Voce  
conducted on 22/05/2024

INTERNAL EXAMINER

EXTERNAL EXAMINER

(Dr. V. Arundathi)



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University, Chennai) Valley Campus, Pollachi Highway,  
Coimbatore – 641 032



### BONAFIDE CERTIFICATE

Certified that this Phase II project report “**BLOCK CHAIN LEGAL RIGHTS MANAGER**” is the bonafide work of “**JEGA SELVAN J, KISHORE S, STANISH T, UDHAYA KUMAR D**” who carried out the project work under my supervision.

*BK*  
*22/5/24*

#### SUPERVISOR

Mr. BHARATHI KANNAN B, M.Tech, (Ph.D)  
ASSISTANT PROFESSOR,  
Department of Computer Science & Engineering  
Hindusthan College of Engineering &  
Technology, Coimbatore-641032

*Dr. Shankar*

#### HEAD OF THE DEPARTMENT

Dr. SHANKAR, Ph.D.,  
PROFESSOR AND HEAD,  
Department of Computer Science & Engineering  
Hindusthan College of Engineering &  
Technology, Coimbatore-641032

Submitted for the Autonomous Institution Phase II Phase Viva-Voce exam held on

22-05-2024

*P. J. F.*  
*22-05-24*

INTERNAL EXAMINER

*V. Shankar*  
EXTERNAL EXAMINER



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## BONAFIDE CERTIFICATE

Certified that this project report "OLD AGE HOME AUTOMATION" is the bonafide work of "ABISHEK PRAKASH (20104004), AKSHAY S KUMAR (20104007), MOHAMMED JISAM P S (20104038), SAHAL ZACHARIA (20104050) who carried out the project work under my supervision.

SIGNATURE

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

SUPERVISOR

HEAD OF THE DEPARTMENT

Computer Science and Engineering  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

SIGNATURE

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

HEAD OF THE DEPARTMENT

Computer Science and Engineering  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

Submitted for the Autonomous Institution Project Based Learning Viva-Voce  
conducted on 22/05/2024

INTERNAL EXAMINER

EXTERNAL EXAMINER

(Dr. V. APOLMATHI)



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Certified that this project report “**DEPRESSION DETECTION USING SVM**” is the bonafide work of “**AMEER ALI S (20104008), ASWAJITH K S (20104012), RITHESH R (20104049), VIGNESH T K (20104050)** who carried out the project work under my supervision.

**SIGNATURE**

**Mr. R. Jayaraj, M.E**

**SUPERVISOR**

Associate Professor

Computer Science and Engineering  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

**SIGNATURE**

**Dr. S. SHANKAR, M.E., Ph.D.,**

**HEAD OF THE DEPARTMENT**

Computer Science and Engineering  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

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Submitted for the Autonomous Institution Project Based Learning Viva-Voce  
conducted on 22-05-24

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**

*(Dr. V. Arunachari)*



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Certified that this project report “DIGITAL VOTING SYSTEM USING CLOUD COMPUTING” is the bonafide work of “ABINAYA K (20104002), RAKSHANAA R (20104047), SANDHIYA SHRI V (20104051)” who carried out the project work under my supervision.

*MS J. Sherin M.*  
22/5/24

**SIGNATURE**

**MS J . SHERIN. M., M.E**

**SUPERVISOR,**

Assistant Professor

Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

*Dr. S. Shankar*

**SIGNATURE**

**Dr. S. SHANKAR, M.E., Ph.D.,**

**HEAD OF THE DEPARTMENT**

Computer Science and Engineering,

Hindusthan College of Engineering  
and Technology, Coimbatore-32

Submitted for the Autonomous Institution Project Phase - 2 Viva-Voce

conducted on 22.05.24

*Dr. V. V. Kulkarni*  
22-05-24

**INTERNAL EXAMINER**

*Dr. V. V. Kulkarni*  
22/5/24

**EXTERNAL EXAMINER**

(DR. V. V. KULKARNI)



# HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY



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## BONAFIDE CERTIFICATE

Certified that this Phase-II project report “FACE RECOGNITION ATTENDANCE SYSTEM USING AI” is the bonafide work of MARIMUTHU S(20104037), MUKESH S (20104042), VASANTHAKUMAR A (20104060), VELMURUGAN S (20104061) who carried out the project work under my supervision.

**SIGNATURE**

**SUPERVISOR**

**Mr. R. JAYARAJ, M.E., Ph.D.,**

Assistant Professor

Computer Science and Engineering

Hindusthan College of Engineering

and Technology, Coimbatore-32

**SIGNATURE**

**HEAD OF THE DEPARTMENT**

**Dr. S. SHANKAR, M.E., Ph.D.,**

Head of the Department

Computer Science and Engineering

Hindusthan College of Engineering

and Technology, Coimbatore-32

---

Submitted for the Autonomous Institution Project Phase-II Viva-Voce conducted on

22.05.24

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**  
(DR. V. ARUMUGHAN)



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### **BONAFIDE CERTIFICATE**

Certified that this Phase II project report “**PREDICTION OF LUNG CANCER USING IMAGE PROCESSING**” is the bonafide work of “**J L HARSHA VAMSI (20104030), G MANOJ KUMAR REDDY (20104036)** ” who carried out the project work under my supervision.

*RJP*  
*22-05-2024*

#### **SUPERVISOR**

**Mr. R. JAYARAJ, M.E,**  
ASSISTANT PROFESSOR,  
Department of Computer Science & Engineering  
Hindusthan College of Engineering &  
Technology, Coimbatore-641032

*S. Shankar*

#### **HEAD OF THE DEPARTMENT**

**Dr. SHANKAR, Ph.D.,**  
PROFESSOR AND HEAD,  
Department of Computer Science & Engineering  
Hindusthan College of Engineering &  
Technology, Coimbatore-641032

Submitted for the Autonomous Institution Phase II Phase Viva-Voce exam held on

*RJP*  
*22-05-2024*

**INTERNAL EXAMINER**

*V. Arun Kumar*  
*22/5/24*  
**EXTERNAL EXAMINER**

*(Dr. V. Arun Kumar)*



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Chennai) Valley Campus, Pollachi Highway, Coimbatore – 641 032



## BONAFIDE CERTIFICATE

Certified that this project report “**UNDERSTANDING FAIRNESS CHALLENGES : MISSING DATA, NOISY DATA AND SELECTION BIAS IN MAKING INFORMED DECISIONS USING MACHINE LEARNING**” is the bonafide work of “**SREE VARSHAA S (20104164), SUMESH R (20104169), TAMILARASU GURUSAMY (20104178), VENKATGIRI B S (20104815)**” who carried out the project work under my supervision.

**SIGNATURE**

**Dr. S. SHANKAR, M.E., Ph.D.,**

**SUPERVISOR**

Head of the Department

Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

**SIGNATURE**

**Dr. S. SHANKAR, M.E., Ph.D.,**

**HEAD OF THE DEPARTMENT**

Computer Science and Engineering,  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

---

Submitted for the Autonomous Institution Project Phase II Viva-Voce  
conducted on 22/05/2023

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**



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## BONAFIDE CERTIFICATE

Certified that this project report “STRATEGIC IMPLEMENTATION OF RANDOM FOREST TO DETECT JOB SCAM” is the bonafide work of “PRANAUV M (20104134), SHREEVYSHALI G (20104160), SINEGA R (20104161), SWETHA R (20104174)” who carried out the project work under my supervision.

**SIGNATURE**

**Dr. D. SATHEESH KUMAR, M.E., Ph.D.,**  
**SUPERVISOR,**  
Associate Professor,  
Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

**SIGNATURE**

**Dr. S. SHANKAR, M.E., Ph.D.,**  
**HEAD OF THE DEPARTMENT**  
Computer Science and Engineering,  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

Submitted for the Autonomous Institution Project Phase - II Viva-Voce  
conducted on 22/05/2024

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**



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Valley Campus, Pollachi Highway, Coimbatore – 641 032



## BONAFIDE CERTIFICATE

Certified that this project report “POLY CYSTIC OVARY SYNDROME DETECTION AND PREVENTION USING MACHINE LEARNING ALGORITHM” is the bonafide work of “ROHIT BAABU R (20104149), SRINATH KISHORE A (20104165), HARI HARAN D (20104803), RAGUL P (20104809)” who carried out the project work under my supervision.

SIGNATURE

Ms. SREELEKHA K V, M.Tech.,  
SUPERVISOR,  
Assistant Professor,  
Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

SIGNATURE

Dr. S. SHANKAR, M.E., Ph.D.,  
HEAD OF THE DEPARTMENT  
Computer Science and Engineering,  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

---

Submitted for the Autonomous Institution Project Phase II Viva-Voce  
conducted on 22-05-2024

INTERNAL EXAMINER

R.P. 22/5/24  
EXTERNAL EXAMINER



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## BONAFIDE CERTIFICATE

Certified that this project report “SMART LUGGAGE TRACKING AND BIOMETRIC BASED SECURITY USING IOT” is the bonafide work of “PAVITHRAN B (20104131), RAGUNATH R (20104139), VIKRAM A (20104185) and VIMAL V K (20104187)” who carried out the project work under my supervision.



SIGNATURE

**Dr. S. DHANABAL, M.E., Ph.D.,**

**SUPERVISOR**

Professor

Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32



SIGNATURE

**Dr. S. SHANKAR, M.E., Ph.D.,**

**HEAD OF THE DEPARTMENT**

Computer Science and Engineering,

Hindusthan College of Engineering

and Technology, Coimbatore-32

---

Submitted for the Autonomous Institution Project Phase II Viva-Voce

conducted on 22/05/2024



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**



**Hindusthan College of Engineering and Technology**  
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(An Autonomous Institution, Affiliated to Anna University, Chennai)  
Valley Campus, Pollachi Highway, Coimbatore - 641 032



## BONAFIDE CERTIFICATE

Certified that this project report "ENHANCED SELF-DRIVING CAR SAFETY AND INTELLIGENCE THROUGH ADVANCED DATASET INTEGRATION USING MACHINE LEARNING" is the bonafide work of "PRAVEENKUMAR R (20104136), SAKTHI K (20104151), SUNDARAPANDI T (20104170) and VIKRAM S (20104186)" who carried out the project work under my supervision.

**SIGNATURE**

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

Associate Professor

Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

**SIGNATURE**

**Dr. S. SHANKAR, M.E., Ph.D.,**

**HEAD OF THE DEPARTMENT**

Computer Science and Engineering,  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

---

Submitted for the Autonomous Institution Project Phase II Viva-Voce  
conducted on 22.05.2024

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**



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Valley Campus, Pollachi Highway, Coimbatore – 641 032



## BONAFIDE CERTIFICATE


Certified that this project report “**IOT BASED SMART VEHICLE PARKING MANAGEMENT SYSTEM**” is the bonafide work of “**SHIVASUBARMANIYAM T (20104162), SUNIL T (20104172), SYED JAVIDH HASSAN (20104176), THARUN CHANDAR R.M (20104182)**” who carried out the project work under my supervision.

SIGNATURE

  
T.K.P. RAJAGOPAL, M.E., (Ph.D.),  
SUPERVISOR,

Assistant Professor.  
Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

SIGNATURE

  
Dr. S. SHANKAR, M.E., Ph.D.,  
HEAD OF THE DEPARTMENT  
Computer Science and Engineering,  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

---

Submitted for the Autonomous Institution Project Phase – II Viva-Voce  
conducted on 22/05/2024

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER



# Hindusthan College of Engineering And Technology

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## BONAFIDE CERTIFICATE

Certified that this project report “PATIENT DIAGNOSIS AND DRUG RECOMMENDATION SYSTEM FOR CERTAIN DISEASES BASED ON SENTIMENT ANALYSIS OF DRUG REVIEWS” is the bonafide work of “RAJESHWARAN P (20104142), RAJKUMAR S (20104143), TAMILMANI V (20104179), VETRIVENDHAN A (20104184) who carried out the project work under my supervision.

**SIGNATURE**

**Ms. B.REENA, M.E.,**

**SUPERVISOR**

Assistant Professor

Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

**SIGNATURE**

**Dr. S. SHANKAR, M.E., Ph.D.,**

**HEAD OF THE DEPARTMENT**

Computer Science and Engineering,

Hindusthan College of Engineering

and Technology, Coimbatore-32

---

Submitted for the Autonomous Institution Project Phase II Viva-Voce

conducted on 22.05.2024

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**



**Hindusthan College of Engineering and Technology**  
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(An Autonomous Institution, Affiliated to Anna University, Chennai)  
Valley Campus, Pollachi Highway, Coimbatore – 641 032



## BONAFIDE CERTIFICATE

Certified that this project report “RESUME ANALYZER USING ARTIFICIAL INTELLIGENCE WITH THE HELP OF NATURAL LANGUAGE PROCESSING” is the bonafide work of “RAJASEKAR K (20104141), RAKESH KUMAR U (20104144), SUDHARSAN R (20104166) and THIVAKAR K (20104183)” who carried out the project work under my supervision.

**SIGNATURE**

**R. GAYATHRI, M.E, (Ph.D),,**

**SUPERVISOR,**

Assistant professor,

Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

**SIGNATURE**

**Dr. S. SHANKAR, M.E., Ph.D.,**

**HEAD OF THE DEPARTMENT**

Computer Science and Engineering,  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

---

Submitted for the Autonomous Institution Project Phase II Viva-Voce  
conducted on 22.05.2024

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**



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(An Autonomous Institution, Affiliated to Anna University, Chennai)  
Valley Campus, Pollachi Highway, Coimbatore – 641 032



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Certified that this project report “**IMAGE STEGANOGRAPHY USING LSB ALGORITHM**” is the bonafide work of “**RAKESH YASHEP RUMALIEN S (20104145), RAMACHANDRAN A (20104146), THARUN BALAJI SK (20104182) and VISHNU R (20104189)**” who carried out the project work under my supervision.

**SIGNATURE**

**B.BHARATHI KANNAN, M.Tech., Ph.D..**

**SUPERVISOR,**

Assistant professor,

Computer Science and Engineering,

Hindusthan College of Engineering

and Technology, Coimbatore-32

**SIGNATURE**

**Dr. S. SHANKAR, M.E., Ph.D.,**

**HEAD OF THE DEPARTMENT**

Computer Science and Engineering,

Hindusthan College of Engineering

and Technology, Coimbatore-32

---

Submitted for the Autonomous Institution Project Phase II Viva-Voce

conducted on 22-05-2024

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**



# Hindusthan College of Engineering and Technology

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Valley Campus, Pollachi Highway, Coimbatore - 641 032



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Certified that this project report "ACCESSING INFORMATION FOR PHYSICALLY IMPAIRED PERSON USING SIGN LANGUAGE DETECT SYSTEM" is the bonafide work of "PREMKUMAR A (20104137), SAMVARDHAN S.K (20104152), SASHIBALAN E(20104157), VISHNUBALAN S (20104188)" who carried out the project work under my supervision.

**SIGNATURE**

**V.K KARTHIKEYAN, M.E., [Ph.D]**

**SUPERVISOR,**

Assistant Professor,

Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

**SIGNATURE**

**Dr. S. SHANKAR, M.E., Ph.D.,**

**HEAD OF THE DEPARTMENT**

Computer Science and Engineering,  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

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Submitted for the Autonomous Institution Project Phase - II Viva-Voce

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**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**



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(An Autonomous Institution, Affiliated to Anna University, Chennai)  
Valley Campus, Pollachi Highway, Coimbatore – 641 032



### BONAFIDE CERTIFICATE

Certified that this project report “**REAL TIME OBJECT RECOGNITION WITH YOLO ALGORITHM**” is the bonafide work of “**PIRATISH R (20104132), RAHUL P (20104140), SUNDARESWAR C M (20104171) and YUVAN SANKAR RAJA L (20104191)** who carried out the project work under my supervision.

  
SIGNATURE

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

Associate Professor

Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

  
SIGNATURE

**Dr. S. SHANKAR, M.E., Ph.D.,**  
**HEAD OF THE DEPARTMENT**

Computer Science and Engineering,  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

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Chennai) Valley Campus, Pollachi Highway, Coimbatore - 641 032



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Certified that this project report "REVOLUTIONIZING INTERACTION VIA GESTURE-DRIVEN WHITEBOARD TECHNOLOGY" is the bonafide work of "NIVEDHITHA BIJU (20104129), RAMAN KUMAR (20104147), SHEHJAS BIN SHAJI (20104158), SUHAIB AKTHER S (20104167) who carried out the project work under my supervision.

**SIGNATURE**

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

Associate Professor  
Computer Science and Engineering  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

**SIGNATURE**

**Dr. S. SHANKAR, M.E., Ph.D.,  
HEAD OF THE DEPARTMENT**

Computer Science and Engineering  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

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Valley Campus, Pollachi Highway, Coimbatore – 641 032



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**SIGNATURE**

**MR.M.PRIYADHARSHAN,M.E.,(Ph.D).,**

**SUPERVISOR,**

Assistant Professor,

Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

**SIGNATURE**

**Dr. S. SHANKAR, M.E., Ph.D.,**

**HEAD OF THE DEPARTMENT**

Computer Science and Engineering,

Hindusthan College of Engineering

and Technology, Coimbatore-32

---

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Valley Campus, Pollachi Highway, Coimbatore – 641 032



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**SIGNATURE**

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

**SUPERVISOR,**

Associate Professor,

Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

**SIGNATURE**

**Dr. S. SHANKAR, M.E., Ph.D.,**

**HEAD OF THE DEPARTMENT**

Computer Science and Engineering,  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

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Valley Campus, Pollachi Highway, Coimbatore – 641 032



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*D. Magesh*  
SIGNATURE

Mr. D. MAGESH, M.E.,

SUPERVISOR,

Assistant Professor,

Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

*S. Shankar*  
SIGNATURE

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

HEAD OF THE DEPARTMENT

Computer Science and Engineering,  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

---

Submitted for the Autonomous Institution Project Phase II Viva-Voce conducted  
on 22-05-2024

*D. Magesh*  
INTERNAL EXAMINER

*R.P. R*  
EXTERNAL EXAMINER



**HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY**  
Approved by AICTE, New Delhi, Accredited with 'A++' Grade by NAAC  
(An Autonomous Institution, Affiliated to Anna University, Chennai)  
Valley Campus, Pollachi Highway, Coimbatore – 641 032



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Certified that this project report “ONLINE-VOTING SYSTEM USING BLOCKCHAIN” is the Bonafide work of SUJITHA A (20104168), KARAN S (20104804), PRASANNA R (20104807), SOURAB B (20104813) who carried out the project work under my supervision.

**SIGNATURE**

**Ms. PRIYA N, M.E.,  
SUPERVISOR**

Assistant Professor  
Department of Computer Science Engineering  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

**SIGNATURE**

**Dr. SHANKAR S, M.E., Ph.D.,  
HEAD OF DEPARTMENT**

Computer Science Engineering  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

---

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Valley Campus, Pollachi Highway, Coimbatore – 641 032



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Certified that this project report “**RADIO FREQUENCY TECHNOLOGY INTEGRATION WITH FINGERPRINT SENSORS**” is the bonafide work of “**PRASANTH K K (20104135), SANJAI M(20104153), SOJI PAVITHRAN (20104163), SHIVA T (20104159)** who carried out the project work under my supervision.

  
SIGNATURE

**Dr. RAMYA DEVI M, M.E., Ph.D.,  
SUPERVISOR**

Assistant Professor  
Computer Science and Engineering  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

  
SIGNATURE

**Dr. S. SHANKAR, M.E., Ph.D.,  
HEAD OF THE DEPARTMENT**  
Computer Science and Engineering  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

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Valley Campus, Pollachi Highway, Coimbatore – 641 032



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**SIGNATURE**

**Dr. S. UMA, B.E.,M.S. (By Res.),,Ph.D.,**

**SUPERVISOR**

Professor

Computer Science and Engineering,  
Hindusthan College of Engineering and  
Technology, Coimbatore-32

**SIGNATURE**

**Dr. S. SHANKAR, M.E. Ph.D.,**

**HEAD OF THE DEPARTMENT**

Computer Science and Engineering,  
Hindusthan College of Engineering  
and Technology, Coimbatore-32

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