# New Horizon College of Engineering

## Department of Artificial Intelligence and Machine Learning

## Project undertaken by students AY-2023-2024

| Team No | Dept | Name of the Student | Internal/ External | Project Title | Org | Internal Guide |
|---|---|---|---|---|---|---|
| 1 | AIML | Mounika Teppola,Bhavna brahma,M Keerti Sai Naidu,Dimple K Choudhary | Internal | Human Activity Detection | NHCE | Prof.Sandhiya Rani |
| 2 | AIML | Revanth Reddy,Venkateshwara Reddy,bandla vamsi mohan | Internal | DeepCKD: Chronic Kidney Disease Early Diagnosis | NHCE | Prof.Ramayashree PM |
| 3 | AIML | Purushotaman shankar, r sai danoosh,sanjay basu,v sai rohit | Internal | A KPI Based Motivational Enhancement HRM Bundle using AI | NHCE | Prof.Akshatha P S |
| 4 | AIML | Kavya Sivakumar,Tarun S,Vinay Krishnan,Priyanshu Roy | Internal | A novel based approach of home automation system for constrained edge IOT Devices. | NHCE | Dr.Sonia Maria Dsouza |
| 5 | AIML | Kathi Siddartha Reddy,Sadula Chandrakanth Reddy,Malem Krishna Vamsi,E Venkata Lokeshwar | Internal | Activity Recongnition of a Driver through Deep Learning Model | NHCE | Prof.Syam Dev |
| 6 | AIML | cheekuru meghana | Internal | AI Based Smart Plant watering System | NHCE | Dr.Sreejith |
| 7 | AIML | Om Kumar Patra,Sumukha Bharadwaj,Yash Tyagi,Shivani Reddy | Internal | AI Powered Legal Assistance System | NHCE | Dr.umamaheswaran S |
| 8 | AIML | Dathri Venkat Reddy,Jeevan C.B,Dainik Suchith E.A,Likith M | Internal | AI-Trip Advisor[Smart Travel Itinerary Planner] | NHCE | Prof.Thanu |
| 9 | AIML | Chetu chandhan,Kakarla lingeswar Balaji,K Datta ram Vivek,Sanjay Reddy | Internal | Anemia Detection Using Machine Learning | NHCE | Prof.Ramesh Prasad |
| 10 | AIML | N Lohit Reddy,Pavan kumar T,Revuru jaswanth,Shripad Kathare | Internal | Artifical Content authenticity Verification | NHCE | Prof.Syam Dev |
| 11 | AIML | Bhoomika S,Rohan S Siddeshwara | Internal | Augumented Annoator | NHCE | Dr.Uma Reddy |

| | | | | | | |
|---|---|---|---|---|---|---|
| 12 | AIML | Akash B,Sumukh C,Gowardhan Reddy,Harshith V | Internal | Automated Office Meeting Summarization with NLP-Based Video Transcription | NHCE | Prof.Akshatha PS |
| 13 | AIML | Bhuvaneshwari,Nandini Reddy K,Yogitha Reddy D.R | Internal | Automatic Thyriod Ultrasound Image classification using Deep Learning | NHCE | Prof.Shravya Shetty |
| 14 | AIML | Bilal Khan,Mohammed Faisal Abdulla,Govind Sha | Internal | Automation of Statistical Aid of Data Engineering | NHCE | Dr.Sonia Maria Dsouza |
| 15 | AIML | Balaji V,Sai Vamsi,Joel Praneeth,Kushal Kumar | Internal | Deep fake detection | NHCE | Prof.Bindu |
| 16 | AIML | Nikhil Manne,Venkata Devagnaa N | Internal | Detection of Intracranial Hemorrhage from CT Scans using DL | NHCE | Dr.Sowmya H K |
| 17 | AIML | Usha Jyothi,Jeyalakshmi | Internal | Malware Detection | NHCE | Prof.Rajashree |
| 18 | AIML | Nischith L,Priya N,Neha Darawan,Shambhavi Dwivedi | Internal | Disease Prognosticator | NHCE | Prof.Bindu |
| 19 | AIML | A Sharath Ram,Abhishek Narisepalli Venkata Sai,Atman Mishra | Internal | MindForge : A digital Second Brain | NHCE | Prof.Rajashree R S |
| 20 | AIML | Adhithya B N,Chris Vinson Pranit Prakash Prabhu,Chandan S | Internal | A Full-Fledged Communication Platform with enhanced accessiblity and functionality | NHCE | Dr.Sreejith |
| 21 | AIML | Dharsan,Sai Charan,Jayavibhav,Manish | Internal | Graph Based Knowledge Representation and information Retrieval for Retrieval Augumented Generation(RAG) | NHCE | Dr.Umamaheswaran S |
| 22 | AIML | Janapati Neeraj,Lingala Naga Malleshwar Reddy,Matam Dinesh Chandra,Metukuru Sri Charan Reddy | Internal | HERBX INSIGHT: Unveiling the Potency of Ayurvedic Plants | NHCE | Dr.Sowmaya H K |
| 23 | AIML | Talha Rakim Khan,Umair Ahmed,Aritroo Kumar Chowdhury | Internal | Machine Olfaction :Creating a Digital Nose | NHCE | Prof.Supriya B Rao |

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|---|---|---|---|---|---|---|
| 24 | AIML | Jayashree M Gadwal,Rohan Rai,Sri Darshan,Vaishnavi R | Internal | MANAS-A Safe and sound Space | NHCE | Prof.Shruthi |
| 25 | AIML | Progyajyoti Mukherjee,Suhail Shaik,Syed Aamir Bokhari,Abhishek Samar Singh | Internal | MEDICHRON | NHCE | Dr.Sreejith |
| 26 | AIML | Anushree P,B Vishnu Vardhan Reddy,Keerthana N,Nagaleekar Nikitha | Internal | Multiliugual Text-to-image generation | NHCE | Dr.Prianka R R |
| 27 | AIML | Charan C,Fizza Mirza,M Karthik Kumar,Mihir Gupta | Internal | Nutri Gen: Personalized Dietary Guidance With AI | NHCE | Dr.Sreejith |
| 28 | AIML | Sasi Kiran Reddy,saketh Sree Ram,Roopam Chowdary,Chengi Rohith kumar | Internal | Periodental Boneloss detection usin CNN | NHCE | Prof.Shasikala K S |
| 29 | AIML | Vignesh Reddy,Girihas,Daksha,Kushal | Internal | Precision Farming with AI for optimal Crop Yield and Health | NHCE | Prof. Jimsha K Mathew |
| 30 | AIML | Kodidala Vamshivardhan,Puneet Vernekar,Rahul Ravindra | Internal | Body Measurement and product recommendation | NHCE | Prof.Ramesh Prasad |
| 31 | AIML | Aditya S Manakar,Arshad Pasha,Jiya Ann Elias,Kartikey Tiwari | Internal | Product Guard: Empowering informed choices for sage Live | NHCE | Prof.Sandhiya Rani |
| 32 | AIML | S Evengiline,Vandhana M Nair,VR Geethika Reddy | Internal | Real Time Driver Drowsiness Detection and alert system | NHCE | Prof.Rajashree R S |
| 33 | AIML | Rishabh Solanki,Rohith M,Tanya Singh,Divyesh Jaiswal | Internal | Realtime sign language recongition API | NHCE | Dr.Prianka R R |
| 34 | AIML | Dhruva Teja,Praveen Reddy,Jashwanth Reddy | Internal | Smart Helper: Voice guided assistance system for visually Impaired | NHCE | Prof.Shasikala K S |
| 35 | AIML | Nihar Kancham,Adusumalla Sai Roopesh,Kruthik Mahesh | Internal | Sociable Sidekick:Revolutionalizing Pet Care through technology. | NHCE | Prof.Thanu |

| | | | | | | |
|---|---|---|---|---|---|---|
| 36 | AIML | Avneesh Tamra,V Mahesh Babu,Rachit shrivastava | Internal | Analysis and Prediction of Lung Disease by Lung Beats | NHCE | Prof.Supriya B Rao |
| 37 | AIML | Sooryendhu,Sowmya asati,Roshan syed,Vignesh Prabhu N | Internal | Stable Diffusion Inpainting with segment Anything Model | NHCE | Dr.Sowmya H K |
| 38 | AIML | Hemanth D,Prathasai K | Internal | Stop Counterfeits with Blockchain | NHCE | Prof. Shravya Shetty |
| 39 | AIML | Nikitha.B,Mukka Prahitha,Sinchana T G,Yeddula Yashaswini | Internal | Stress Management using AI model | NHCE | Dr.Uma Reddy N |
| 40 | AIML | Niharika P,Neehika P | Internal | Kidney Stone Detection using CT scan images | NHCE | Prof.Jimsha K Mathew |
| 41 | AIML | Pallavi Sharma,Prasanna Kotyal,Smirna Paul | Internal | Care Compass | NHCE | Prof.Jimsha K Mathew |

Project Coordinator

HOD-AI&ML

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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**20AIM83A**

**A PROJECT PHASE-2 REPORT**

*on*

# "Web-Based Real-Time Child Surveillance System"

Submitted in partial fulfillment for the award of the degree of

**BACHELOR OF ENGINEERING**

**in**

**ARTIFICIAL INTELLIGENCE & MACHINE LEARNING**

*by*

**BHAVNA BRAHMA** : 1NH20AI016
**DIMPLE K CHOUDHARY** : 1NH20AI027
**KEERTI SAI NAIDU** : 1NH20AI056
**MOUNIKA TEPPOLA** : 1NH20AI063

***Under the guidance of***

**Ms. Sandyarani Vadlamudi**
**Senior Assistant Professor**
**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103**

**2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College, Affiliated to VTU | Approved by AICTE New Delhi & UGC
Accredited by NAAC with 'A' Grade & Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

## CERTIFICATE

It is hereby certified that the Project Phase-2 work entitled **"Web-Based Real-Time Child Surveillance System"** is a bonafide work carried out by **BHAVNA BRAHMA (1NH20AI016), DIMPLE K CHOUDHARY (1NH20AI027), KEERTI SAI NAIDU (1NH20AI056), MOUNIKA TEPPOLA (1NH20AI063)** in partial fulfilment for the award of **Bachelor of Engineering** in **ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING** of New Horizon College of Engineering during the year **2023-2024.** It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide
**(Prof. Sandyarani Vadlamudi)**

29/5/24

Signature of HOD
**(Dr. Uma Reddy N V)**

**SEE VIVA VOCE**

| Name of Examiner | Signature with date |
|---|---|
| 1. Dr. S. Umamaheswara | 29/5/24 |
| 2. Prof. Ravi Lanke | |

NEW HORIZON
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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**20AIM83A**

**A PROJECT PHASE-2 REPORT**

*on*

# "Multiple Disease Detection"

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

**BACHELOR OF ENGINEERING**

**in**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

*by*


**Bandla Vamsi Mohan : 1NH20AI014**
**Machireddy Venkateswara Reddy : 1NH20AI057**
**N Sri Satya Revanth Reddy : 1NH20AI066**


***Under the guidance of***


**Ms. Ramyasree**
**ASSISTANT PROFESSOR**
**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103**


**2023 - 24**

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## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

## CERTIFICATE

It is hereby certified that the Project work entitled "**Multiple Disease Detection**" is a bonafide work carried out by **N Sri Satya Revanth Reddy (1NH20AI066), Bandla Vamsi Mohan(1NH20AI014),Machireddy Venkateswara Reddy (1NH20AI057)** in partial fulfilment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of New Horizon College of Engineering during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

Signature of Guide
**(Ms. Ramyasree)**

NVU 28/5/2024
Signature of HOD
**(Dr. UMA REDDY N V)**

**External Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. Dr. R. Meenakshi Sundaram | 29/05/24 |
| 2. Arun Kumar S | 29/5/24 |

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## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

## 20AIM83A

## A PROJECT PHASE-2 REPORT

*on*

# " A KPI BASED MOTIVATIONAL ENHANCEMENT HRM BUNDLE USING AI"

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

## BACHELOR OF ENGINEERING

## in

## ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

*by*


**PURUSHOTAMAN SHANKAR : 1NH20AI083**
**R SAI DANOOSH : 1NH20AI093**
**SANJAY BASU : 1NH20AI095**
**V SAI ROHIT : 1NH20AI112**


***Under the guidance of***


**Prof. Akshatha P S**
**Senior Asst. Proffesor**
**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103**


**2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

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## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

## CERTIFICATE

It is hereby certified that the Project work entitled "A KPI BASED MOTIVATIONAL ENHANCEMENT HRM BUNDLE USING AI" is a bonafide work carried out by **PURUSHOTAMAN SHANKAR (1NH20AI083), R SAI DANOOSH (1NH20AI093), SANJAY BASU (1NH20AI095), V SAI ROHITH (1NH20AI112)** in partial fulfilment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of New Horizon College of Engineering during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

Akshatha P S 27/05/2024

Signature of Guide
**(Prof. Akshatha P S)**

NVU 27/5

Signature of HOD
**(Dr.UMA REDDY N V)**

**External Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. SYED HAYATH | Syed Hayath 28/5/24 |
| 2. Dr. PRIANKA. R.R | 28/5/24 |

NEW HORIZON
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# A PROJECT PHASE-II REPORT
# ON
# INTERDISCIPLINARY PROJECT TITLED

## "A NOVEL BASED APPROACH OF HOME AUTOMATION SYSTEM FOR CONSTRAINED EDGE IOT DEVICES "

Submitted in partial fulfilment for the award of the degree of

**BACHELOR OF ENGINEERING**
**IN**
**COMPUTER ENGINEERING**

**BY**

PRIYANSHU ROY – 1NH20CE033

***Under the guidance of***
Dr. C. R. RATHISH
ASSOCIATE PROFESSOR

**BACHELOR OF ENGINEERING**
**IN**
**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**BY**

VINAY KRISHNAN -1NH20AI138
TARUN S -1NH20AI108
KAVYA SIVAKUMAR -1NH20AI047

***Under the guidance of***
Dr. SONIA MARIA D'SOUZA
ASSOCIATE PROFESSOR

**Academic Year: 2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

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## DEPARTMENT OF COMPUTER ENGINEERING

# CERTIFICATE

It is hereby certified that the interdisciplinary project phase-II work entitled **"A Novel Based Approach Of Home Automation System For Constrained Edge Iot Devices"** is a bonafide work carried out by **Priyanshu Roy (1NH20CE033)** in partial fulfilment for the award of **Bachelor of Engineering** in **Computer Engineering** of the New Horizon College of Engineering during the year **2023-2024.** It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

| Signature of Guide | Signature of Guide | Signature of HOD |
|---|---|---|
| Dr. C. R. Rathish | Dr. Sonia Maria D'Souza | Dr. T. Kavitha |

**SEE Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. Arun Kumar S | |
| 2. Mehda. B | |

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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**20AIM83A**

**A PROJECT PHASE-2 REPORT**

*on*

# "ACTIVITY RECOGNITION OF A DRIVER THROUGH DEEP LEARNING"

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

**BACHELOR OF ENGINEERING**

**in**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

*by*


1. **MALEM KRISHNA VAMSI** : 1NH20AI058
2. **SADULA CHANDRAKANTH REDDY** : 1NH20AI092
3. **EERLA GURU VENKATA LOKESHWAR** : 1NH20AI133
4. **KATHI SIDDARTHA REDDY** : 1NH20AI139


***Under the guidance of***


**Prof. R. S. Syam Dev**
**Sr. ASSISTANT PROFESSOR**
**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103**


**ACADEMIC YEAR: 2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

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## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

## CERTIFICATE

It is hereby certified that the Project work entitled " **ACTIVITY RECOGNITION OF A DRIVER THROUGH DEEP LEARNING** " is a bonafide work carried out by **MALEM KRISHNA VAMSI (1NH20AI058), SADULA CHANDRAKANTH REDDY REDDY (1NH20AI092), EERLA GURU VENKATA LOKESHWAR (1NH20AI133), KATHI SIDDARTHA REDDY (1NH20AI139)** in partial fulfilment for the award of **Bachelor of Engineering** in **ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING** of **New Horizon College of Engineering** during the year **2023-2024**. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said degree.

Signature of Guide
**(Prof. R. S. Syam Dev)**

Signature of HOD
**(Dr. UMA REDDY N V)**

**External Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. SYED HAYATH | 18/5/24 |
| 2. Dr. PRIANKA. R-R | 18/5/24 |

# NEW HORIZON COLLEGE OF ENGINEERING

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## A PROJECT PHASE-2 REPORT ON INTERDISCIPLINARY PROJECT TITLED

# "AI Based Smart Plant Watering System"

Submitted in partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION ENGINEERING
BY


**Abhijeeth Talari -1NH20EC004**
**Gokul Mohan -1NH20EC051**
**Mukthapuram Divya -1NH20EC086**


*Under the guidance of*
**Ms. Ramanamma P**
Senior Assistant Professor
Dept. of ECE

BACHELOR OF ENGINEERING
IN
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING ENGINEERING
BY


**Cheekuru Meghana -1NH20AI021**


*Under the guidance of*
**Dr. Sreejith S**
**Associate Professer**
Dept. of AIML

**Academic Year: 2023-24**


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## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

# CERTIFICATE

It is hereby certified that the Interdisciplinary Project Phase-II work entitled **"AI Based Smart Plant Watering System"** is a bonafide work carried out by **Cheekuru Meghana(1NH20AI021)** in partial fulfilment for the award of **Bachelor of Engineering** in **ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING** of the New Horizon College of Engineering during the year **2023-2024.** It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

| | | |
|---|---|---|
| Signature of Guide | Signature of HOD | Signature of Principal |
| **(Dr. SREEJITH S)** | **(Dr. UMA REDDY N V)** | **(Dr. MANJUNATHA)** |

**SEE Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. Arun Kumar S | 31/5/24 |
| 2. Dr. S. Chandrashekar | 31/5/24 |
| Dr. Kavita A Patil. | |

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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**20AIM83A**

**A PROJECT PHASE-2 REPORT**

*on*

# "AI-Powered Legal Assistant System"

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

**BACHELOR OF ENGINEERING**
**in**
**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

*by*


| | |
|---|---|
| **OM KUMAR PATRA** | : 1NH20AI073 |
| **S SHIVANI REDDY** | : 1NH20AI094 |
| **SUMUKHA BHARADWAJ** | : 1NH20AI102 |
| **YASH TYAGI** | : 1NH20AI121 |


***Under the guidance of***


**Dr. Umamaheswaran S**
**Professor**
**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103**


**2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

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## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

## CERTIFICATE

It is hereby certified that the Project work entitled **"AI-Based Legal Assistant System"** is a bonafide work carried out by OM KUMAR PATRA (1NH20AI073), SHIVANI REDDY (1NH20AI094), SUMUKHA BHARADWAJ (1NH20AI102), and YASH TYAGI (1NH20AI121) in partial fulfilment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of New Horizon College of Engineering during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

Signature of Guide
**DR. UMAMAHESWARAN S**

Signature of HOD
**DR. UMA REDDY N V**

**External Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. SYED HAYATH | 28/5/24 |
| 2. Dr. PRIANKA. R.P | 28/5/24 |

NEW HORIZON
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A PROJECT PHASE-2 REPORT (20AIM78A)

ON

# AI- Trip Advisor [Smart Travel Itinerary planner]

Submitted in partial fulfilment for the award of the degree of

**BACHELOR OF ENGINEERING**

**IN**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNNING**

**BY**


DAIVIK SUCHIT -1NH20AI024

JEEVAN C B - 1NH20AI036

M DATHRI VENKAT REDDY -1NH20AI054

LIKITH M -1NH20AI134


***Under the guidance of***


**Ms. Thanu Deepu George**

Senior assistant professor


## DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING


**NEW HORIZON COLLEGE OF ENGINEERING**

**(Autonomous Institution Affiliated to VTU & Approved by AICTE)**

**Accredited by NAAC 'A', Accredited by NBA**

Outer Ring Road, Panathur Post, Kadubeesanahalli, Bangalore – 560103


**Academic Year: 2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

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Accredited by NAAC with 'A' Grade & Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

## CERTIFICATE

It is hereby certified that the Project Phase-2 work entitled **"AI-TRIP ADVISOR"** is a bonafide work carried out by **DAIVIK SUCHIT (1NH20AI036), JEEVAN C B (1NH20AI036), M DATHRI VENKAT REDDY (1NH20AI054), LIKITH M (1NH20AI134)** in partial fulfilment for the award of **Bachelor of Engineering** in **ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING** of New Horizon College of Engineering during the year **2023-2024.** It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide
**(Ms. Thanu Deepu George)**

28/5/2024
Signature of HOD
**(Dr. Uma Reddy N V)**

**SEE VIVA VOCE**

| Name of Examiner | Signature with date |
|---|---|
| 1. Dr. S. Umamaheswari | 29/5/24 |
| 2. Prof. Ravi Lanke | 29/5/24 |

# NEW HORIZON COLLEGE OF ENGINEERING

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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

20AIM83A

A PROJECT PHASE-2 REPORT

*on*

## "Anemia Detection Using Machine Learning"

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

BACHELOR OF ENGINEERING

in

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

*by*


**A CHETU CHANDHAN** : 1NH20AI004
**K LINGESWAR BALAJI**: 1NH20AI040
**K DATTA RAM VIVEK** : 1NH20AI046
**P SANJAY REDDY** : 1NH20AI143


*Under the guidance of*


**Mr. Ramesh Prasad R**
**Seneior Assisstant Professor**
DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103


**2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College, Affiliated to VTU | Approved by AICTE New Delhi & UGC
Accredited by NAAC with 'A' Grade & Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

## CERTIFICATE

It is hereby certified that the Project work entitled **"Anemia Detection Using Machine Learning"** is a bonafide work carried out by A CHETU CHANDHAN (1NH20AI004), K LINGESWAR BALAJI (1NH20AI040), K DATTA RAM VIVEK (1NH20AI046) and P SANJAY REDDY (1NH20AI143) in partial fulfilment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of New Horizon College of Engineering during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

R. Ravi

**Signature of Guide**
**(Dr./Mr./Ms. Guide Name)**

N V U 28/5/24

**Signature of HOD**
**(Dr.UMA REDDY N V)**

**External Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. Arun Kumar S | 28/5/24 |
| 2. Rajasree RS. | 28/5/24 |

NEW HORIZON
COLLEGE OF ENGINEERING

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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**20AIM83A**

**A PROJECT PHASE-2 REPORT**

*on*

# "ARTIFICIAL CONTENT AUTHENTICITY VERIFICATION"

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

**BACHELOR OF ENGINEERING**

**in**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

*by*


| | |
|---|---|
| **N. LOHITH REDDY** | : 1NH20AI072 |
| **PAVAN KUMAR T** | : 1NH20AI076 |
| **R V S S JASWANTH** | : 1NH20AI086 |
| **SHRIPAD KATHARE** | : 1NH20AI097 |


***Under the guidance of***


**Mr.R.S.Syam Dev**
Senior Assistant Professor
**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103**


**2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College, Affiliated to VTU | Approved by AICTE New Delhi & UGC
Accredited by NAAC with 'A' Grade & Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

# CERTIFICATE

It is hereby certified that the Project work entitled **"ARTIFICIAL CONTENT AUTHENTICITY VERIFICATION"** is a bonafide work carried out by N.LOHITH REDDY(1NH20AI072),PAVAN KUMAR T(1NH20AI076), R.V.S.S.JASWANTH(1NH20AI086), SHRIPAD KATHARE(1NH20AI097) in partial fulfilment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of New Horizon College of Engineering during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

Signature of Guide
**(Mr.R.S.Syam Dev)**

Signature of HOD
**(Dr. UMA REDDY N V)**

**External Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. Prof. Arun Kumar S | 29/08/24 |
| 2. ..... | ..... |

NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College, Affiliated to VTU | Approved by AICTE New Delhi & UGC
Accredited by NAAC with 'A' Grade & Accredited by NBA

# A PROJECT PHASE-II REPORT (20AIM83A)

# ON

# "AI-Powered Video Conferencing App with Real-time Speech-to-Speech Machine Translation"

Submitted in partial fulfillment for the award of the degree of

**BACHELOR OF ENGINEERING**
**IN**
**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**BY**


**BHOOMIKA S -1NH20AI018**
**ROHAN S SIDDESHWARA -1NH20AI089**


***Under the guidance of***


**Dr. Uma Reddy. N. V**
Professor and Head of Dept,
AI & ML


## DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING


**NEW HORIZON COLLEGE OF ENGINEERING**
**(Autonomous Institution Affiliated to VTU & Approved by AICTE)**
**Accredited by NAAC 'A', Accredited by NBA**
Outer Ring Road, Panathur Post, Kadubeesanahalli, Bangalore – 560103


## Academic Year: 2023-24

NEW HORIZON
COLLEGE OF ENGINEERING

Autonomous College, Affiliated to VTU | Approved by AICTE New Delhi & UGC
Accredited by NAAC with 'A' Grade & Accredited by NBA

# DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

# CERTIFICATE

It is hereby certified that the Project work entitled "**AI-Powered Video Conferencing App with Real-time Speech-to-Speech Machine Translation**" is a bonafide work carried out by BHOOMIKA S (1NH20AI018), ROHAN S SIDDESHWARA (1NH20AI089) in partial fulfilment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of New Horizon College of Engineering during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

N V-1

Signature of Guide
**(Dr. UMA REDDY N V)**

N V-1 28/5/24

Signature of HOD
**(Dr.UMA REDDY N V)**

**External Viva**

| | Name of Examiner | Signature with date |
|---|---|---|
| 1. | Dr-B-Meenakshi Sundaram | 29/5/24 |
| 2. | Arun Kumar S | 29/5/24. |

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College, Affiliated to VTU | Approved by AICTE New Delhi & UGC
Accredited by NAAC with 'A' Grade & Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

**20AIM83A**

**A PROJECT PHASE-2 REPORT**

*on*

**"Automated Office Meeting Summarization with NLP-Based Video Transcription and Speaker Diarization"**

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

**BACHELOR OF ENGINEERING**

**in**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

*by*


**AKASH B** (1NH20AI006)
**C SUMUKH** (1NH20AI019)
**GOWARDHAN REDDY V** (1NH20AI032)
**V HARSHITH** (1NH20AI111)


***Under the guidance of***


**Ms. AKSHATHA P S**

**Senior Assistant Professor**

**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103**


**2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College, Affiliated to VTU | Approved by AICTE New Delhi & UGC
Accredited by NAAC with 'A' Grade & Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

## CERTIFICATE

It is hereby certified that the Project work entitled "**Automated Office Meeting Summarization with NLP-Based Video Transcription and Speaker Diarization**" is a bonafide work carried out by AKASH B (1NH20AI006), C SUMUKH (1NH20AI019), GOWARDHAN REDDY V (1NH20AI032) and V HARSHITH (1NH20AI111) in partial fulfilment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of New Horizon College of Engineering during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

Akshatha M 27/5/2024

Signature of Guide
**(Prof. AKSHATHA P S)**

N.V.U Reddy

Signature of HOD
**(Dr. UMA REDDY N V)**

**External Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. Dr. S. Chenthilkumaran | 29/5/24 |
| 2. PROF. RAVI LANKE | 29/5/24 |

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

AN INTERDISCIPLINARY PROJECT PHASE-2
REPORT ON

# "AUTOMATIC THYRIOD ULTRASOUND IMAGE CLASSIFICATION USING DEEP LEARNING "

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

**BACHELOR OF ENGINEERING**
**IN**
**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**BY**


K. BHUVANESWARI - 1NH20AI041
NANDINI REDDY K - 1NH20AI126
YOGITHA REDDY D.R -1NH20AI135


*Under the guidance of*
**Ms. Shravya Shetty**
Assistant Professor

**BACHELOR OF ENGINEERING**
**IN**
**ELECTRONICS AND COMMUNICATION ENGINEERING**
**BY**


ABDULLAH -1NH20EC003


*Under the guidance of*
**Ms. Baby Chithra**
Senior Assistant Professor

**Academic Year: 2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

## CERTIFICATE

It is hereby certified that the Interdisciplinary Project Phase-I work entitled **"AUTOMATIC THYRIOD ULTRASOUND IMAGE CLASSIFICATION USING DEEP LEARNING"** is a bonafide work carried out by **K. BHUVANESWARI (1NH20AI041), NANDINI REDDY K (1NH20AI126) and YOGITHA REDDY D.R (1NH20AI135)** in partial fulfilment for the award of **Bachelor of Engineering** in **OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING** of the New Horizon College of Engineering during the year **2023-2024.** It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

| Signature of Guide | Signature of Co-Guide | Signature of HOD |
|---|---|---|
| **(Ms. SHRAVYA SHETTY)** | **(Ms. Baby Chithra)** | **(Dr. Uma Reddy N V)** |
| Assistant Professor | Senior Assistant Professor | (HOD-AIML) |

**SEE Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. Arun Kumar | |
| 2. Dr. S. Umamaheswari | |
| Dr. Kavita. A. Patil | |

NEW HORIZON
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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**20AIM83A**

**A PROJECT PHASE-2 REPORT**

*on*

# "Automation of Statistical Aid to Data Engineering"

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

**BACHELOR OF ENGINEERING**

**in**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

*by*

**BILAL KHAN** : 1NH20AI017
**MOHAMMED FAISAL ABDULLA** : 1NH20AI062
**GOVIND KUMAR JHA** : 1NH21AI400

***Under the guidance of***

**Dr. Sonia Maria D'Souza**
**Associate Professor**
**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103**

2023-24

NEW HORIZON COLLEGE OF ENGINEERING

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Accredited by NAAC with 'A' Grade & Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

# CERTIFICATE

It is hereby certified that the Project work entitled **"Automation of Statistical Aid to Data Engineering"** is a bonafide work carried out by BILAL KHAN (1NH20AI017), MOHAMMED FAISAL ABDULLA (1NH20AI062) and GOVIND KUMAR JHA (1NH21AI4010) in partial fulfilment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of New Horizon College of Engineering during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

Signature of Guide
(Dr. Sonia Maria D'Souza)

Signature of HOD
(Dr.UMA REDDY N V)

**External Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. Dr. S. Umamaheswari | |
| 2. Prof. Ravi Lanke | 29/5/24 |

NEW HORIZON
COLLEGE OF ENGINEERING
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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**20AIM83A**

**A PROJECT PHASE-2 REPORT**

*on*

# "DEEPFAKE DETECTION USING MULTI MODAL APPROACH"

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

**BACHELOR OF ENGINEERING**

**in**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

*by*

**BALAJI V:** 1NH20AI013

**D SAI VAMSI:** 1NH20AI029

**K JOEL PRANEETH:** 1NH20AI045

**KUSHAL KUMAR M:** 1NH20AI052

***Under the guidance of***

**Ms Bindu S**

**Assistant Professor**

**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103**

**2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

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Accredited by NAAC with 'A' Grade & Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

## CERTIFICATE

It is hereby certified that the Project work entitled **"DEEPFAKE DETECTION USING MULTIMODAL APPROACH"** is a bonafide work carried out by **BALAJI V (1NH20AI013), SAI VAMSI (1NH20AI029), JOEL PRANEETH (1NH20AI045) and KUSHAL KUMAR (1NH20AI052)** in partial fulfilment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of New Horizon College of Engineering during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

Bindu S 27/5/24

Signature of Guide
**(Ms. Bindu S)**

N V. 27/5/2024

Signature of HOD
**(Dr. Uma Reddy N V)**

**SEE VIVA VOCE**

| Name of Examiner | Signature with date |
|---|---|
| 1. Dr. S. Umamaheswari | 27/5/24 |
| 2. Prof. Ravi Lanke | 27/5/24 |

...

NEW HORIZON COLLEGE OF ENGINEERING

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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**20AIM83A**

**A PROJECT PHASE-2 REPORT**

*on*

# "DETECTION OF INTRACRANIAL HEMORRHAGE FROM CT SCANS USING DEEP LEARNING"

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

**BACHELOR OF ENGINEERING**

**in**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

*By*

**N.VENKATA DEVAGNAA** : 1NH20AI068
**NIKHIL MANNE** : 1NH20AI070

***Under the guidance of***

**Dr. SOWMYA HK**
**Associate Professor**
**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103**

**2023-2024**

NEW HORIZON
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Accredited by NAAC with 'A' Grade & Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

# CERTIFICATE

It is hereby certified that the Project work entitled **DETECTION OF INTRACRANIAL HEMORRHAGE FROM CT SCANS USING DEEP LEARNING** is a bonafide work carried out by **N.VENKATA DEVAGNAA(1NH20AI068),NIKHIL MANNE(1NH20AI070)** in partial fulfilment for the award of **Bachelor of Engineering** in **ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING** of **New Horizon College of Engineering** during the year **2023-2024**. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

| | |
|---|---|
| ---------- | ---------- |
| Signature of Guide | Signature of HOD |
| **(Dr. SOWMYA HK)** | **(Dr. UMA REDDY N V)** |

**External Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. ..... | _____ |
| 2. ..... | _____ |

NEW HORIZON COLLEGE OF ENGINEERING

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# DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

## A PROJECT PHASE-2 REPORT (20AIM83A)

## ON

# "Developing a Proactive Ensemble Learning System for Malware Detection"

Submitted in partial fulfilment for the award of the degree of

**BACHELOR OF ENGINEERING**

**IN**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**


**By**

**PRAKKI USHA JYOTHI -1NH20AI077**

**THATIGOTLA JAYALAKSHMI -1NH20AI109**


***Under the guidance of***


**Ms. RAJASREE R S**

Sr. Assistant Professor

**DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING**

**NEW HORIZON COLLEGE OF ENGINEERING**

**(Autonomous Institution Affiliated to VTU & Approved by AICTE)**

**Accredited by NAAC 'A', Accredited by NBA**

Outer Ring Road, Panathur Post, Kadubeesanahalli, Bangalore – 560103


# Academic Year: 2023-24

# NEW HORIZON COLLEGE OF ENGINEERING

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Accredited by NAAC with 'A' Grade & Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

## CERTIFICATE

It is hereby certified that the Project work entitled **"DEVELOPING A PROACTIVE ENSEMBLE LEARNING SYSTEM FOR MALWARE DETECTION"** is a bonafide work carried out by USHA JYOTHI (1NH20AI077),T JAYALAKSHMI(1NH20AI109), in partial fulfilment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of NewHorizon College of Engineering during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

Signatureof Guide
**(Ms. Rajasree R S)**

N V U 28/5/2024
Signatureof HOD
**(Dr. Uma Reddy N V)**

**SEE VIVA VOCE**

| | Name of Examiner | Signature with date |
|---|---|---|
| 1. | Arun Kumar S | 29/5/2024 |
| 2. | Dr. B. Meenachi Sundaram | 29/5/2024 |

NEW HORIZON COLLEGE OF ENGINEERING

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Accredited by NAAC with 'A' Grade & Accredited by NBA

**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**20AIM83A**

**A PROJECT PHASE-2 REPORT**

*on*

# "DISEASE PROGNOSTICATOR"

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

**BACHELOR OF ENGINEERING**

**in**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

*by*


**Nischith L** : 1NH20AI071
**Priya N** : 1NH20AI080
**Neha Darawan** : 1NH20AI127
**Shambhavi Dwivedi** : 1NH20AI136


***Under the guidance of***


**Ms. Bindu S**
**Assistant Professor**
**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103**


**2023-24**

NEW HORIZON
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Accredited by NAAC with 'A' Grade & Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

# CERTIFICATE

It is hereby certified that the Project work entitled **"DISEASE PROGNOSTICATOR"** is a bonafide work carried out by NISCHITH L (1NH20AI071), PRIYA N (1NH20AI080), NEHA DARAWAN (1NH20AI127), SHAMBHAVI DWIVEDI (1NH20AI136) in partial fulfilment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of New Horizon College of Engineering during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

Bindu S 24/05/24

Signature of Guide
**(Ms. Bindu S)**

N.V

Signature of HOD
**(Dr.UMA REDDY N V)**

**External Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. Dr. B. Meenakshi Sundaram | 24/5/24 |
| 2. Arun Kumar S | 24/5/24 |

NEW HORIZON
COLLEGE OF ENGINEERING

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Accredited by NAAC with 'A' Grade & Accredited by NBA

**A PROJECT PHASE-2 REPORT (20AIM83A)**

**ON**

# "Flashback.ai: A Digital Second Brain"

Submitted in partial fulfillment for the award of the degree of

**BACHELOR OF ENGINEERING**

**IN**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**BY**

**A Sharath Ram -1NH20AI001**
**Abhishek Narisepalli Venkata Sai -1NH20AI002**
**Atman Mishra -1NH20AI010**

***Under the guidance of***

**Ms. Rajashree R S**

Senior Assistant Professor

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

## NEW HORIZON COLLEGE OF ENGINEERING

**(Autonomous Institution Affiliated to VTU & Approved by AICTE)**

**Accredited by NAAC 'A', Accredited by NBA**

Outer Ring Road, Panathur Post, Kadubeesanahalli, Bangalore – 560103

## Academic Year: 2023-24

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College, Affiliated to VTU | Approved by AICTE New Delhi & UGC
Accredited by NAAC with 'A' Grade & Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

# CERTIFICATE

It is hereby certified that the Project work entitled "**Flashback.ai: A Digital Second Brain**" is a bonafide work carried out by **A Sharath Ram (1NH20AI001), Abhishek Narisepalli Venkata Sai (1NH20AI002), Atman Mishra (1NH20AI010)** in partial fulfillment for the award of **Bachelor of Engineering** in **Artificial Intelligence and Machine Learning** of New Horizon College of Engineering during the year **2023-2024.** It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide
**(Ms. Rajashree R S)**

29/5/24

Signature of HOD
**(Dr. Uma Reddy N V)**

**SEE VIVA VOCE**

| | Name of Examiner | Signature with date |
|---|---|---|
| 1. | Dr. B. Meenakshi Sundaram | 29/5/24 |
| 2. | Arun Kumar S | 29/5/24 |

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College, Affiliated to VTU | Approved by AICTE New Delhi & UGC
Accredited by NAAC with 'A' Grade & Accredited by NBA

A PROJECT PHASE-2 REPORT (20AIM83A)

ON

## "A FULL-FLEDGED COMMUNICATION PLATFORM WITH ENHANCED ACCESSIBILITY AND FUNCTIONALITY"

Submitted in partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING IN
ARTIFICIAL INTELLIGENCE & MACHINE LEARNING
BY


**ADHITHYA B N (1NH20AI003)**
**CHRIS VINSON KUNNANKADA (1NH20AI022)**
**PRANIT PRAKASH PRABHU (1NH20AI078)**
**CHANDAN ABHISHEK S (1NH20AI123)**


*Under the guidance of*


**Dr. Sreejith S**
Associate Professor


## DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING


**NEW HORIZON COLLEGE OF ENGINEERING**
**(Autonomous Institution Affiliated to VTU & Approved by AICTE)**
**Accredited by NAAC 'A', Accredited by NBA**
Outer Ring Road, Panathur Post, Kadubeesanahalli, Bangalore – 560103


**Academic Year: 2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College, Affiliated to VTU | Approved by AICTE New Delhi & UGC
Accredited by NAAC with 'A' Grade & Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

## CERTIFICATE

It is hereby certified that the Project Phase-2 work entitled **"A full-fledged communication platform with enhanced accessibility and functionality."** is a bonafide work carried out by **ADHITHYA B N(1NH20AI003), CHRIS VINSON KUNNANKADA (1NH20AI022), PRANIT PRAKASH PRABHU(1NH20AI078), CHANDAN ABHISHEK S (1NH20AI123)** in partial fulfillment for the award of **Bachelor of Engineering** in **ARTIFICIAL INTELLIGENCE & MACHINE LEARNING** of New Horizon College of Engineering during the year **2023-2024.** It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

| | |
|---|---|
| Signature of Guide. | Signature of HOD |
| **(Dr. Sreejith S)** | **(Dr. Uma Reddy N V)** |

**SEE VIVA VOCE**

| Name of Examiner | Signature with date |
|---|---|
| 1. Dr. S. Umamaheswaran | 29/5/24 |
| 2. Prof. Ravi Lanke | |

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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**20AIM83A**

**A PROJECT PHASE-2 REPORT**

*on*

# "Graph based Retrieval Augmentation for Education and Learning"

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

**BACHELOR OF ENGINEERING**

**in**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

*by*


**DHARSHAN AN** : 1NH20AI026
**G SAI CHARAN**: 1NH20AI031
**JAYAVIBHAV NK**: 1NH20AI035
**K MANISH** : 1NH20AI038


***Under the guidance of***


**Dr. Umamaheswaran S**
**Professor**
**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103**


**2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College, Affiliated to VTU | Approved by AICTE New Delhi & UGC
Accredited by NAAC with 'A' Grade & Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

# CERTIFICATE

It is hereby certified that the Project work entitled **"Graph based retrieval augmentation for education and learning"** is a bonafide work carried out by **DHARSHAN AN(1NH20AI026), G SAI CHARAN(1NH20AI031), JAYAVIBHAV NK(1NH20AI035), K MANISH(1NH20AI038)** in partial fulfilment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of New Horizon College of Engineering during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

Signature of Guide
**(Dr. UMAMAHESWARAN S)**

N.V. Uma Reddy

Signature of HOD
**(Dr. UMA REDDY N V)**

**External Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. Dr. S. Umamaheswaran | 29/1/24 |
| 2. Prof. Ravi Lanke | |

NEW HORIZON
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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**20AIM83A**

**A PROJECT PHASE-2 REPORT**

*on*

# "HERBX INSIGHT: UNVEILING THE POTENCY OF AYURVEDIC PLANTS"

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

**BACHELOR OF ENGINEERING**

**in**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

*by*


1. **JANAPATI NEERAJ** : 1NH20AI033
2. **LINGALA NAGA MALLESHWAR REDDY** : 1NH20AI053
3. **MATAM DINESH CHANDRA** : 1NH20AI059
4. **METUKURU SRI CHARAN REDDY** : 1NH20AI060


***Under the guidance of***


**DR. SOWMYA H K**
**ASSOCIATE PROFESSOR**
**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103**


**ACADEMIC YEAR: 2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College, Affiliated to VTU | Approved by AICTE New Delhi & UGC
Accredited by NAAC with 'A' Grade & Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

## CERTIFICATE

It is hereby certified that the Project work entitled " **HERBX INSIGHT: UNVEILING THE POTENCY OF AYURVEDIC PLANTS** " is a bonafide work carried out by **JANAPATI NEERAJ (1NH20AI033), LINGALA NAGA MALLESHWAR REDDY (1NH20AI053), MATAM DINESH CHANDRA (1NH20AI059), METUKURU SRI CHARAN REDDY (1NH20AI060)** in partial fulfilment for the award of **Bachelor of Engineering** in **ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING** of **New Horizon College of Engineering** during the year **2023-2024**. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said degree.

Signature of Guide
**(Dr. Sowmya H K)**

Signature of HOD
**(Dr. UMA REDDY N V)**

**External Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. Prof. Arun Kumar S | 29/05/24 |
| 2. Rajasree RS | 29/5/24 |

# NEW HORIZON COLLEGE OF ENGINEERING

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A PROJECT PHASE-II REPORT
ON
INTERDISCIPLINARY PROJECT TITLED

## "Machine Olfaction : Creating a Digital Nose "

Submitted in partial fulfillment for the award of the degree of

**BACHELOR OF ENGINEERING**
**IN**
**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**BY**


ARITROO CHOWDHURY- 1NH20AI141
TALHA KHAN - 1NH20AI106
UMAIR AHMED - 1NH20AI110


***Under the guidance of***
**Ms. SUPRIYA B RAO**
Assistant Professor

**BACHELOR OF ENGINEERING**
**IN**
**ELECTRONICS AND COMMUNICATION ENGINEERING**
**BY**


SUDEEP V D -1NH20EC164


***Under the guidance of***
**Mr. PRATHIK CHATTERJEE**
Assistant Professor

**Academic Year: 2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

# CERTIFICATE

It is hereby certified that the interdisciplinary project phase-II work entitled "**Machine Olfaction : Creating a Digital Nose**" is a bonafide work carried out by **ARITROO KUMAR CHOWDHURY (1NH20AI141), UMAIR AHMED (1NH20AI110) and TALHA KHAN (1NH20AI106)** in partial fulfilment for the award of **Bachelor of Engineering** in **ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING** of the New Horizon College of Engineering during the year **2023-2024.** It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

| Signature of Guide | Signature of Guide | Signature of HOD |
|---|---|---|
| **Ms. SUPRIYA B RAO** | **Mr. PRATHIK CHATTERJEE** | **Dr. N V UMA REDDY** |

**SEE Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. Mr. Arun Kumar S | 31/05/24 |
| 2. Dr. S. Chandrashekaran<br>Dr. Kavita. A. Patil. | 31/5/24 |

NEW HORIZON COLLEGE OF ENGINEERING

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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**20AIM83A**

**A PROJECT PHASE-2 REPORT**

*on*

# " MANAS- WEAVING TECH AND SCIENCE FOR MENTAL WELL-BEING "

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

**BACHELOR OF ENGINEERING**

**in**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

*By*


**Jayashree M Gadwal :1NH20AI034**
**Rohan Rai :1NH20AI088**
**Sri Darshan :1NH20AI140**
**Vaishnavi R :1NH21AI401**


***Under the guidance of***


**Dr. Sonia Maria Dsouza**
**Associate Professor**
**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103**


**2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

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## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

## CERTIFICATE

It is hereby certified that the Project work entitled "MANAS- Weaving Tech And Science For Mental Well-Being" is a bonafide work carried out by Jayashree M Gadwal (1NH20AI034),Rohan Rai (1NH20AI088),Sri Darshan (1NH20AI140) and Vaishnavi R (1NH21AI401) in partial fulfilment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of New Horizon College of Engineering during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

27/05/2024

Signature of Guide
**(Dr. Sonia Maria Dsouza)**

28/5/24

Signature of HOD
**(Dr.UMA REDDY N V)**

**External Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. SYED HAYATH | 28/5/24 |
| 2. Dr. PRIANKA.R.R | 28/5/24 |

NEW HORIZON
COLLEGE OF ENGINEERING
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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**20AIM83A**

**A PROJECT PHASE-2 REPORT**

*on*

# "MEDICHRON"

Submitted in partial fulfilment for the award of the degree of

**BACHELOR OF ENGINEERING**

**in**

**Artificial Intelligence and Machine Learning**

**by**

**PROGYAJYOTI MUKHERJEE -1NH20AI081**

**SUHAIL SHAIK -1NH20AI096**

**SYED AAMIR -1NH20AI103**

**ABHISHEK SINGH -1NH20AI129**

***Under the guidance of***

**Dr. SREEJITH S.**
ASSOCIATE PROFESSOR

**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103**

**2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

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Accredited by NAAC with 'A' Grade & Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

# CERTIFICATE

It is hereby certified that the Project Phase-2 work entitled "**MEDICHRON**" is a bonafide work carried out by **PROGYAJYOTI MUKHERJEE (1NH20AI081), SUHAIL SHAIK (1NH20AI096), SYED AAMIR(1NH20AI103)** and **ABHISHEK SINGH(1NH20AI129)** in partial fulfilment for the award of **Bachelor of Engineering** in **ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING** of New Horizon College of Engineering during the year **2023-2024.** It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

| | |
|---|---|
| Signature of Guide<br>**(Dr. Sreejith S)** | Signature of HOD<br>**(Dr. Uma Reddy N V)** |

**SEE VIVA VOCE**

| Name of Examiner | Signature with date |
|---|---|
| 1. SYED HAYATH | 28/5/2024 |
| 2. Dr. PRIANKA. R.R | 28/5/2024 |

NEW HORIZON
COLLEGE OF ENGINEERING
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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**20AIM83A**

**A PROJECT PHASE-2 REPORT**

*on*

# "MULTILINGUAL TEXT TO IMAGE GENERATION"

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

**BACHELOR OF ENGINEERING**
**in**
**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

*by*

| | |
|---|---|
| **ANUSHREE P** | 1NH20AI008 |
| **B VISHNU VARDHAN REDDY** | 1NH20AI012 |
| **KEERTHANA N** | 1NH20AI048 |
| **NAGALEEKAR NIKITHA** | 1NH20AI067 |

***Under the guidance of***

**Dr. Prianka R R**
**Senior Assistant Professor**
**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE-560103**

**2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

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## DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

## CERTIFICATE

It is hereby certified that the Project work entitled "**Multilingual Text to Image Generation**" is a bonafide work carried out by Anushree P(1NH20AI008), B Vishnu Vardhan Reddy(1NH20AI012), Keerthana N(1NH20AI048), Nagaleekar Nikitha(1NH20AI067) in partial fulfilment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of New Horizon College of Engineering during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

Signature of Guide
**(Dr. Prianka R R)**

28/5/24
Signature of HOD
**(Dr. Uma Reddy N V)**

**SEE VIVA VOCE**

| Name of Examiner | Signature with date |
|---|---|
| 1. Syed Hayath | Syedth 28/5/24 |
| 2. Dr. Prianka R-R | 28/5/24 |

NEW HORIZON
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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**20AIM82A**

**A PROJECT PHASE-2 REPORT**

*on*

# "Personalized dietary guidance with AI"

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

**BACHELOR OF ENGINEERING**

**in**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

*by*


**CHARAN C** : 1NH20AI020
**FIZZA MIRZA** : 1NH20AI030
**M KARTHIK KUMAR** : 1NH20AI055
**MIHIR GUPTA** : 1NH20AI061


***Under the guidance of***


**Dr. Sreejith S**
**Associate Professor**
**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103**


**2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

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## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

## CERTIFICATE

It is hereby certified that the Project work entitled "**NutriGen: Personalized dietary guidance with AI**" is a bonafide work carried out by CHARAN C (1NH20AI020), FIZZA MIRZA (1NH20AI030), M KARTHIK KUMAR (1NH20AI055) and MIHIR GUPTA (1NH20AI061) in partial fulfilment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of New Horizon College of Engineering during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

Signature of Guide
**(Dr. Sreejith S)**

N V. I 27/5/24

Signature of HOD
**(Dr. UMA REDDY N V)**

**External Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. SYED HAYATH | 28/5/24 |
| 2. Dr. PRIANKA. R.R | 28/5/24 |

NEW HORIZON COLLEGE OF ENGINEERING

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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**20AIM83A**

**A PROJECT PHASE-2 REPORT**

*on*

# "PERIODONTAL BONE LOSS DETECTION USING CNN"

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

**BACHELOR OF ENGINEERING**
**in**
**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

*by*


**K. SASIKIRAN REDDY** : 1NH20AI042
**P. SAKETH SREE RAM** : 1NH20AI075
**R. ROOPAM CHOWDARY** : 1NH20AI085
**C. ROHITH KUMAR** : 1NH20AI124


***Under the guidance of***


**Ms. KS SHASHIKALA**
**Senior Assistant Professor**
**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103**


**2023-24**

NEW HORIZON
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# DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

# CERTIFICATE

It is hereby certified that the Project work entitled **"Periodontal Bone Loss Detection"** is a bonafide work carried out by K. SASIKIRAN REDDY (1NH20AI042), P. SAKETH SREE RAM (1NH20AI075), R. ROOPAM CHOWDARY (1NH20AI085), C. ROHITH KUMAR (1NH20AI124) in partial fulfilment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of New Horizon College of Engineering during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

Signature of Guide
**(Ms. KS SHASHIKALA)**

Signature of HOD 25/5/24
**(Dr.UMA REDDY N V)**

**External Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. Arun Kumar S | 28/5/24 |
| 2. Rajasree RS. | 28/5/24 |

NEW HORIZON
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# DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

## 20AIM83A

## A PROJECT PHASE-2 REPORT

*on*

## "Precision Farming with AI for Optimal Crop Yield and Health"

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

## BACHELOR OF ENGINEERING

**in**

## ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

*by*


**A.VIGNESH REDDY** : 1NH20AI007
**D.GIRIHAS REDDY**: 1NH20AI023
**DAKSHA TM**: 1NH20AI025
**KUSHAL KULANDAIVELU**: 1NH20AI051


***Under the guidance of***


**Ms. Jimsha K Mathew**
**Senior Assistant Professor**
**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103**


**2023-24**

NEW HORIZON
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Accredited by NAAC with 'A' Grade & Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

# CERTIFICATE

It is hereby certified that the Project work entitled **"Precision Farming with AI for Optimal Crop Yield and Health"** is a bonafide work carried out by A.VIGNESH REDDY 1NH20AI007 , D.GIRIHAS REDDY 1NH20AI023, DAKSHA TM 1NH20AI025 and KUSHAL KULANDAIVELU 1NH20AI051 in partial fulfilment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of New Horizon College of Engineering during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

Signature of Guide
**(Ms. Jimsha K Mathew)**

Signature of HOD
**(Dr.UMA REDDY N V)**

**External Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. Dr. S. Veneshwaran | 29/5 |
| 2. Prof. Ravi Lanke | 29/5/24 |

NEW HORIZON
COLLEGE OF ENGINEERING

Autonomous College, Affiliated to VTU | Approved by AICTE New Delhi & UGC
Accredited by NAAC with 'A' Grade & Accredited by NBA

**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**20AIM83A**

**A PROJECT PHASE-2 REPORT**

*on*

# "PRODUCT RECOMMENDATIONS USING BODY MEASUREMENT"

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

**BACHELOR OF ENGINEERING**

**in**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

*by*


**K VAMSHIVARDHAN**: 1NH20AI049
**PUNEET VERNEKAR**: 1NH20AI082
**RAHUL RAVINDRA:** 1NH20AI084
**VIGNESH BHARADWAJ:** 1NH20AI118


***Under the guidance of***


**Mr. RAMESH PRASAD**
**Senior Assistant Professor**
**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103**


**2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

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## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

# CERTIFICATE

It is hereby certified that the Project work entitled **"PRODUCT RECOMMENDATIONS USING BODY MEASUREMENT"** is a bonafide work carried out by **K VAMSHIVARDHAN (1NH20AI049), PUNEET VERNEKAR (1NH20AI082), RAHUL RAVINDRA (1NH20AI084), VIGNESH BHARADWAJ (1NH20AI118)** in partial fulfilment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of New Horizon College of Engineering during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

R. Ramesh

Signature of Guide
**(Mr. Ramesh Prasad)**

N.V.U

Signature of HOD
**(Dr. UMA REDDY N V)**

**External Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. Arun Kumar J | 28/5/24 |
| 2. Rajasree KS | 28/5/24 |

NEW HORIZON
COLLEGE OF ENGINEERING

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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**20AIM83A**

**A PROJECT PHASE-2 REPORT**

*on*

# "ProductGuard: Empowering Informed Choices for Safe Living"

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

**BACHELOR OF ENGINEERING**

**in**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

*by*


**ADITYA S MANAKAR** : 1NH20AI005
**ARSHAD PASHA** : 1NH20AI009
**JIYA ANN ELIAS** : 1NH20AI037
**KARTIKEY TIWARI** : 1NH20AI044


***Under the guidance of***


**Ms. Sandyarani Vadlamudi**
**Senior Assistant Professor**
**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103**


**2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

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Accredited by NAAC with 'A' Grade & Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

## CERTIFICATE

It is hereby certified that the Project work entitled **"ProductGuard: Empowering Informed Choices for Safe Living"** is a bonafide work carried out by ADITYA S MANAKAR (1NH20AI005), ARSHAD PASHA (1NH20AI009), JIYA ANN ELIAS (1NH20AI037), KARTIKEY TIWARI (1NH20AI044) in partial fulfilment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of New Horizon College of Engineering during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

Signature of Guide
**(MS. SANDYARANI V)**

27/5/24
Signature of HOD
**(Dr. UMA REDDY N V)**

**External Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. Arun Kumar S | 28/5/24 |
| 2. Rajasree R.S. | 28/5/24 |

NEW HORIZON
COLLEGE OF ENGINEERING
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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

**20AIM83A**

**A PROJECT PHASE-2 REPORT**

*On*

# "REAL TIME DRIVER DROWSINESS DETECTION AND ALERT SYSTEM"

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

**BACHELOR OF ENGINEERING**

**in**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

*by*

**EVENGILINE S** : 1NH20AI091
**VANDHANA M NAIR** : 1NH20AI113
**VR GEETHIKA REDDY** : 1NH20AI114

***Under the guidance of***

**Ms. RAJASREE R S**
**SENIOR ASSISTANT PROFESSOR**
**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103**

**2023-24**

NEW HORIZON
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Accredited by NAAC with 'A' Grade & Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

# CERTIFICATE

It is hereby certified that the Project work entitled "**REAL TIME DRIVER DROWSINESS DETECTION AND ALERT SYSTEM**" is a bonafide work carried out by EVENGILINE S(1NH20AI091), VANDHANA M NAIR (1NH20AI113) and VR GEETHIKA REDDY (1NH20AI114) in partial fulfilment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of New Horizon College of Engineering during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

Signature of Guide
**(Dr./Mr./Ms. Guide Name)**

Signature of HOD
**(Dr.UMA REDDY N V)**

**External Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. Dr. B. Meenakshi Sundaram | 29/05/24 |
| 2. Arun Kumar J | 29/5/24 |

NEW HORIZON COLLEGE OF ENGINEERING

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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**20AIM83A**

**A PROJECT PHASE-2 REPORT**

*on*

# "Real-Time Sign Language Translation API"

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

**BACHELOR OF ENGINEERING**

**in**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

*by*


**DIVYESH JAISWAL** : 1NH20AI131
**RISHABH SOLANKI SINGH** : 1NH20AI087
**ROHITH M S** : 1NH20AI090
**TANYA SINGH** : 1NH20AI107


***Under the guidance of***


**Dr. Prianka R.R**
**Senior Assistant Professor**
**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103**


**2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College, Affiliated to VTU | Approved by AICTE New Delhi & UGC
Accredited by NAAC with 'A' Grade & Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

## CERTIFICATE

It is hereby certified that the Project work entitled "Real-Time Sign Language Translation API" is a bonafide work carried out by DIVYESH JAISWAL (1NH20AI131), RISHABH SOLANKI SINGH (1NH20AI087), ROHITH M S (1NH20AI090) and TANYA SINGH (1NH20AI107) in partial fulfilment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of New Horizon College of Engineering during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

Signature of Guide
Dr. PRIANKA R R

Signature of HOD
Dr.UMA REDDY N V

**External Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. Syed Hayath | 28/5/2024 |
| 2. Dr. Priyanka R.R | 28.5.24 |

NEW HORIZON
COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

A PROJECT PHASE-II REPORT
ON
INTERDISCIPLINARY PROJECT TITLED

# "Smart Helper : A Voice Guided Assistance for Visually Impaired"

Submitted in partial fulfillment for the award of the degree of

**BACHELOR OF ENGINEERING**
**IN**
**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**BY**


K S Dhruva Teja -1NH20AI039
M Praveen Reddy -1NH20AI065
Jaswanth Reddy – 1NH20AI117


*Under the guidance of*
**Prof. K S Shashikala**
Senior Assistant Professor

**BACHELOR OF ENGINEERING**
**IN**
**ELECTRONICS AND COMMUNICATION ENGINEERING**
**BY**


S M Prassana - 1NH19EC153


*Under the guidance of*
**Mr. Srinivas Babu**
Assistant Professor

**Academic Year: 2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

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## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

## CERTIFICATE

It is hereby certified that the interdisciplinary project phase-II work entitled "**Smart Helper: A Voice Guided Assistance for Visually Impaired**" is a bonafide work carried out by **K S Dhruva Teja (1NH20AI039) M Praveen Reddy (1NH20AI065) Jaswanth Kumar Reddy (1NH20AI117)** in partial fulfilment for the award of **Bachelor of Engineering** in **ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING** of the New Horizon College of Engineering during the year **2023-2024.** It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

| Signature of Guide | Signature of Guide | Signature of HOD |
|---|---|---|
| **(Prof. K S Shashikala)** | **(Mr. Srinivas Babu)** | **(HOD-AIML)** |

**SEE Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. Arun Kumar S | |
| 2. | |

# NEW HORIZON COLLEGE OF ENGINEERING

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**A PROJECT PHASE-2 REPORT**

**(20AIM78A) ON**

**"SOCIABLE SIDEKICK: REVOLUTIONALIZING PET CARE WITH TECHNOLOGY"**

Submitted in partial fulfilment for the award of the degree of

**BACHELOR OF**

**ENGINEERING IN**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**BY**


**NIHAR KANCHAM -1NH20AI069**
**KRUTHIK M – 1NH20AI137**
**ADUSUMALLA SAI ROOPESH – 1NH20AI132**


***Under the guidance of***


**Ms. Thanu Deepu George**
Sr Asst. Prof. Department of Artificial Intelligence and Machine Learning


## DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING


**NEW HORIZON COLLEGE OF ENGINEERING**
**(Autonomous Institution Affiliated to VTU & Approved by AICTE)**
**Accredited by NAAC 'A,' Accredited by NBA**
Outer Ring Road, Panathur Post, Kadubeesanahalli, Bangalore – 560103


**Academic Year: 2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

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## DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

## CERTIFICATE

It is hereby certified that the Project Phase-1 work entitled "AN AI/KPI BASED MOTIVATIONAL ENHANCEMENT HRM BUNDLE" is a Bonafide work carried out by **NIHAR KANCHAM (1NH20AI069), KRUTHIK M (1NH20AI137), ADUSUMALLA SAI ROOPESH (1NH20AI132)** in partial fulfilment for the award of **Bachelor of Engineering** in **ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING** of New Horizon College of Engineering during the year **2023-2024.** It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for thesaid degree.

Signature of Guide
**(Ms. Thanu Deepu George)**

Signature of HOD
**(Dr. Uma Reddy N V)**

**SEE VIVA VOCE**

| Name of Examiner | Signature with date |
|---|---|
| 1. Arun Kumar S | |
| 2. Dr. B. Meenakshi Sundaram | |

# NEW HORIZON COLLEGE OF ENGINEERING

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A PROJECT PHASE-II REPORT
ON
INTERDISCIPLINARY PROJECT TITLED

## "Sonic Insights: Revolutionizing Lung Disease Analysis and Prediction with Lung Beats "

Submitted in partial fulfilment for the award of the degree of


BACHELOR OF ENGINEERING
IN
ARTIFICIAL INTELLIGENCE & MACHINE LEARNING
BY

Avneesh Tamra -1NH20AI011
Vejandla Mahesh Babu -1NH20AI115
Rachit Shrivastava – 1NH20AI128

*Under the guidance of*
**Mrs. Supriya B Rao**
Assistant Professor

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION ENGINEERING
BY

Alan Derryl A -1NH20EC009

*Under the guidance of*
**Ms. Amarjeet Pal Cheema**
Assistant Professor


**Academic Year: 2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

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Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

# CERTIFICATE

It is hereby certified that the **interdisciplinary project phase-II work entitled "Sonic Insights: Revolutionizing Lung Disease Analysis and Prediction with Lung Beats"** is a bonafide work carried out by **Avneesh Tamra (1NH20AI011), Vejandla Mahesh Babu (1NH20AI115) and Rachit Shrivastava (1NH20AI128)** in partial fulfilment for the award of **Bachelor of Engineering** in **Artificial Intelligence and Machine Learning** of the New Horizon College of Engineering during the year **2023-2024.** It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

| Signature of Guide | Signature of Guide | Signature of HOD |
|---|---|---|
| **Mrs. Supriya B Rao** | **Ms. Amarjeet Pal Cheema** | **Dr. Uma Reddy N V** |
| | | **(HOD-AIML)** |

**SEE Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. Arun Kumar S | 31.5.24 |
| 2. Dr. S. Ganesh / Dr. Kavita A Patil | |

NEW HORIZON COLLEGE OF ENGINEERING

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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**20AIM83A**

**A PROJECT PHASE-2 REPORT**

*on*

# "STABLE DIFFUSION INPAINTING WITH SEGMENT ANYTHING MODEL"

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

**BACHELOR OF ENGINEERING**

**in**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

*by*


**SOORYENDHU PRAMODH** : 1NH20AI100
**SOUMYA ASATI** : 1NH20AI101
**SYED ROSHAN** : 1NH20AI105
**VIGNESH PRABHU** : 1NH20AI119


***Under the guidance of***


**Dr.SOWMYA HK**
**Associate Professor**
**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103**


**2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

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Accredited by NAAC with 'A' Grade & Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

# CERTIFICATE

It is hereby certified that the Project work entitled **"STABLE DIFFUSION INPAINTING WITH SEGMENT ANYTHING MODEL"**is a bonafide work carried out by SOORYENDHU PRAMODH (1NH20AI100), SOUMYA ASATI (1NH20AI101), SYED ROSHAN (1NH20AI105) and VIGNESH PRABHU (1NH20AI119) in partial fulfilment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of New Horizon College of Engineering during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

Signature of Guide
**Dr.SOWMYA HK**

Signature of HOD
**Dr.UMA REDDY N V**

**External Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. SYED HAYATH | 28/5/24 |
| 2. Dr. PRIANKA. R.R | 28-5-24 |

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## DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

## CERTIFICATE

It is hereby certified that the Project work entitled **"STOP COUNTERFEIT PRODUCTS WITH BLOCKCHAIN"** is a bonafide work carried out by **D Hemanth (1NH20AI028) and K Partha Sai (1NH20AI050)** in partial fulfilment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of New Horizon College of Engineering during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

Shravya 28/5/24

Signature of Guide

**(Ms. Shravya Shetty)**

NV 28/5/2024

Signature of HOD

**(Dr. Uma Reddy N V)**

**SEE VIVA VOCE**

| Name of Examiner | Signature with date |
|---|---|
| 1. Dr. B. Meenachisundaram | 29/05/24 |
| 2. Arun Kumar S | 29/5/24 |

...

# CHAPTER 1

## 1.INTRODUCTION

### 1.1 DOMAIN INTRODUCTION

In an undeniably interconnected and globalized world, the issue of item genuinenesshas become the dominant focal point. From extravagance merchandise to drugs, the commonness offake items presents financial difficulties as well as serious dangers tocustomers' wellbeing and security. As customers request more noteworthy straightforwardness and responsibility in the items they buy, organizations look for creative answers forprotect their image respectability. In light of this developing concern, blockchaininnovation has arisen as a game-changing answer for guarantee item genuineness.Blockchain, initially intended to support digital forms of money, has now extended itsutility past advanced monetary standards. Its center elements of straightforwardness, permanence, and security make it an optimal contender for resolving the complicated issue of itemlegitimacy. In this unique situation, a Blockchain-Based Answer for Item Genuineness offers a promising way ahead. This presentation makes way for a thorough investigation of how blockchain innovation can reform the manner in which we confirm the genuineness of items all through their store network venture. It dives into the meaning of straightforwardness, immutability,and security in guaranteeing item genuineness, and the effect such an answer can have on customer trust, brand assurance, and worldwide exchange. As we adventure into the world ofblockchain-based item genuineness arrangements, it becomes obvious that thistechnology holds the possibility to change enterprises and rethink the way we interactwith the items we purchase and use.

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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**20AIM83A**

**A PROJECT PHASE-2 REPORT**

*on*

# "Stress Analysis and Prediction using Machine Learning with EEG"

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

**BACHELOR OF ENGINEERING**

**in**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

*by*


**NIKITHA B :**1NH20AI015
**MUKKA PRAHITHA** :1NH20AI064
**SINCHANA T G** :1NH20AI098
**YEDDULA YASHASWINI :**1NH20AI122


***Under the guidance of***


**Dr. N V Uma Reddy**
**Professor and Head**
**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE,560103**


**2023-24**

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## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

# CERTIFICATE

It is hereby certified that the Project work entitled **"Stress Analysis and Prediction System Using Machine Learning with EEG "** is a bonafide work carried out by NIKITHA B (1NH20AI015), MUKKA PRAHITHA (1NH20AI064), SINCHANA T G (1NH20AI098), YEDDULA YASHASWINI (1NH20AI122) in partial fulfilment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of New Horizon College of Engineering during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

N.V. [signature]
Signature of Guide
**(Dr. N V UMA REDDY)**

N.V. [signature] 27/5/24
Signature of HOD
**(Dr. N V UMA REDDY)**

**External Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. Arun Kumars | [signature] 28/5/24 |
| 2. Rajasree R.S. | [signature] 28/5/24 |

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Accredited by NAAC with 'A' Grade & Accredited by NBA

**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**20AIM83A**

**A PROJECT PHASE-2 REPORT**

*on*

# "A DEEP LEARNING APPROACH TOWARDS THE DETECTION OF KIDNEY STONE USING CT SCAN IMAGES"

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

**BACHELOR OF ENGINEERING**

**in**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

*by*


**PANABAKAM NIHARIKA : 1NH20AI125**
**NEEHIKA P SETTYPALLI : 1NH20AI130**


***Under the guidance of***


**Ms. Jimsha K Mathew**
**Senior Assistant Professor**

**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**
**NEW HORIZON COLLGE OF ENGINEERING, BANGALORE, 560103,**

**2023-2024**

# NEW HORIZON COLLEGE OF ENGINEERING

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Accredited by NAAC with 'A' Grade & Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

# CERTIFICATE

It is hereby certified that the Project work entitled "**A DEEP LEARNING APPROACH TOWARDS THEDETECTION OF KIDNEY STONE USING CT SCAN IMAGES**" is a bonafide work carried out by PANABAKAM NIHARIKA (1NH20AI125) and NEEHIKA P SETTYPALLI (1NH20AI130) in partial fulfillment for the award of Bachelor of Engineering in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING of New Horizon College of Engineering during the year 2023- 2024. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

Signature of Guide
**(Ms. JIMSHA K MATHEW)**

N.V. 25/5/24

Signature of HOD
**(Dr. UMA REDDY N V)**

**External Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. Arun Kumar J | 29/5/24 |
| 2. Dr. B. Meenakshi Sharma | 29/5/24 |

NEW HORIZON
COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

A PROJECT PHASE-II REPORT
ON
INTERDISCIPLINARY PROJECT TITLED

# "Transformative Potential of Care Compass "

Submitted in partial fulfillment for the award of the degree of


**BACHELOR OF ENGINEERING**

**IN**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING ENGINEERING**

**BY**

PALLAVI SHARMA -1NH20AI074

PRASANNA KOTYAL -1NH20AI079

SMIRNA PAUL -1NH20AI099

***Under the guidance of***

**Mrs. Jimsha K Mathew**

Senior Assistant Professor

**BACHELOR OF ENGINEERING**

**IN**

**COMPUTER ENGINEERING**

**BY**

SHADAB KHAN N A -1NH20CE043

***Under the guidance of***

**Ms. Mehda B**

Senior Assistant Professor


## Academic Year: 2023-24

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

## CERTIFICATE

It is hereby certified that the interdisciplinary project phase-II work entitled "Transformative Potential of Care Compass" is a bonafide work carried out by **PALLAVI SHARMA (1NH20AI074), PRASANNA KOTYAL (1NH20AI079)** and **SMIRNA PAUL (1NH20AI099)** in partial fulfilment for the award of **Bachelor of Engineering** in **ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING ENGINEERING** of the New Horizon College of Engineering during the year **2023-2024**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

| | | |
|---|---|---|
| Signature of Guide | Signature of Guide | Signature of HOD |
| **(Mrs. Jimsha K Mathew)** | **(Ms. Mehda B)** | **(HOD-AIML)** |

**SEE Viva**

| Name of Examiner | Signature with date |
|---|---|
| 1. Arun Kumar S | |
| 2. Dr. S. Umamaheswari | |