

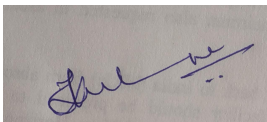
# NEW HORIZON COLLEGE OF ENGINEERING

(Autonomous college, affiliated to VTU, Accredited by NBA and NAAC with 'A' Grade)

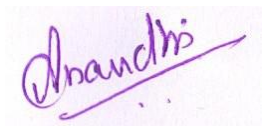
## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### Rubrics for Project Evaluation for CIE

Criteria/Level(Marks)	Does not meet expectation (70% of Weight age)	Meets expectation (90% of Weight age)	Exceeds expectation (100% of Weight age)
Abstract (15)	Irrelevant, downloaded from internet, unformatted	Relevant content, meets formal guidelines	Innovative representation of topic
Plans & Progress(15)	Does not adhere to timeline	Goes as per the plan	Works ahead of the plan
Presentation Skills & Viva(25)	Not confident, less eye contact or low body language , Unable to answer, shows lack of knowledge	Confident body language and message delivery, Able to answer questions	Excellent body language use of additional means eg .whiteboard , Able to answer all questions, shows in depth knowledge
Implementation & Adherence to coding standards(25)	No project approaches/ methods/ parameters were provided	Project approaches/methods/ parameters were clearly outlined and justified	Project approaches/methods/ parameters were clearly outlined and justified
Report(20)	Not according to guidelines, plagiarized	Meets all specified guidelines	Extensive research on the topic presented in the report



**Coordinator**



**HOD-ISE**



**NEW HORIZON  
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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“ಸಾಮಾಜಿಕ ಅಂತರಕಾಯ್ದೆ ಕೊಳ್ಳುವಿಕೆ-Automatic  
social distancing system using thermal scanners in  
huge auditorium or conference hall entrances”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF ENGINEERING**

**INFORMATION SCIENCE AND ENGINEERING**

By

**AKHILA S**

**1NH17IS008**

**VAISHNAVI R**

**1NH17IS124**

**VARNA MURALI**

**1NH17 IS126**

**Under the guidance of**

**Dr.RJ Anandhi**

Professor and Head of Department, Dept. of ISE, NHCE

**NEW HORIZON COLLEGE OF ENGINEERING**

Outer ring road, Kadubeesanahalli, Near Marathahalli, Bengaluru-560103



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## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### **CERTIFICATE**

Certified that the project work entitled “ಸಾಮಾಜಿಕ ಅಂತರಕಾಯ್ದೆ ಕೊಳ್ಳುವಿಕೆ-  
**Automatic social distancing system using thermal scanners in huge auditorium or  
conference hall entrances**”, carried out by **Ms. Akhila S(1NH17IS008)**, **Ms. Vaishnavi  
R(1NH17IS124)** and **Ms. Varna Murali(1NH17IS126)**, bonafide students of NEW HORIZON  
COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor  
of Engineering in Information Science and Engineering of the Visveswaraiiah  
Technological University, Belgaum during the year 2021-2022. 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.

Name & Signature of the Guide

**Dr. RJ Anandhi**

Name & Signature of the HOD

**Dr. RJ Anandhi**

Signature of the Principal

**Dr. Manjunatha**

External Viva

Name of the Examiners

- 1.
- 2.

Signature with Date



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



**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“Acoustic Echo Cancellation for e-Learning Platform”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF  
ENGINEERING IN  
INFORMATION SCIENCE AND ENGINEERING**

By

**G S Nithyashree (1NH17IS134)  
Ashwin Venkatakrishnan (1NH17IS140)  
Aneesh Mohan Kumar (1NH17IS012)  
S Karthik (1NH17IS084)**

**Under the guidance of**

**Dr. R J Anandhi,  
Professor and Head of  
Department, Dept. of ISE, NHCE**

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**NEW HORIZON COLLEGE OF ENGINEERING**

(Autonomous College Permanently Affiliated to VTU, Approved by AICTE, Accredited by  
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Ring Road, Bellandur Post, Near Marathahalli, Bengaluru-560103, INDIA



**NEW HORIZON  
COLLEGE OF ENGINEERING**

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



## CERTIFICATE

Certified that the project work entitled "**Acoustic Echo Cancellation for e-Learning Platform**", carried out by **Ms.GSNithyashre** (1NH17IS134), **Mr.AshwinVenkatakrisnan** (1NH17IS140), **Mr. Aneesh Mohan Kumar** (1NH17IS012) , **Mr. S Karthik** (1NH17IS084) bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfilment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraya Technological University, Belgaum during the year 2020-2021. 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.

Name & Signature of the Guide

**Dr.R J Anandhi**

Name & Signature of the HOD

**Dr.RJAnandhi**

Signature of the Principal

**Dr.Manjunatha**

External Viva

Name of the Examiners

Signature with Date

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**NEW HORIZON  
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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“Designing a prototype for Mentally Challenged and Alzheimer  
Patients”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF ENGINEERING  
IN  
INFORMATION SCIENCE AND ENGINEERING**

By

**ABHINAV ANAND**

**1NH17IS002**

**AYUSH ANAND SAHU**

**1NH17IS017**

**CHINMAYA KUMAR NAYAK**

**1NH17IS027**

**DEEPAK KUMAR SAH**

**1NH17IS029**

**Under the guidance of**

**Dr. Saravanan**

Professor, Dept. of ISE, NHCE

**NEW HORIZON COLLEGE OF ENGINEERING**

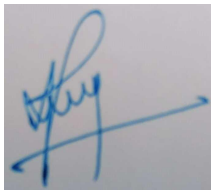
Outer ring road, Kadubeesanahalli, Near Marathahalli, Bengaluru-560103

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

# CERTIFICATE

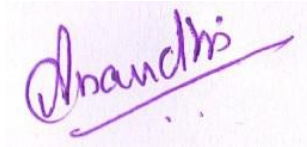
Certified that the project work entitled “**Designing a prototype for Mentally Challenged and Alzheimer Patients**”, carried out by **Mr. ABHINAV ANAND** (1NH17IS002), **Mr. AYUSH ANAND SAHU** (1NH17IS017), **Mr. CHINMAYA KUMAR NAYAK** (1NH17IS027) and **Mr. DEEPAK KUMAR SAH** (1NH17IS029) bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2019-20. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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Name & Signature of the Guide

**Dr. K. Saravanan**



Name & Signature of the HOD

**Dr. R J Anandhi**



Signature of the Principal

**Dr. Manjunatha**

External Viva

Name of the Examiners

Signature with Date

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**NEW HORIZON  
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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“REMOTE MONITORING AND CONTROL UNIT OF SOLAR  
PHOTOVOLTAIC PLANT USING IOT”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF ENGINEERING  
IN  
INFORMATION SCIENCE AND ENGINEERING**

By

**Hamsa P O  
1NH17IS039  
Anusha K  
1NH17IS015  
Girish R  
1NH17IS038  
Prajwal G  
1NH17IS069**

***Under the guidance of***

**Dr .P. Mangayakarasi**

Associate Professor, Dept. of ISE, NHCE

**NEW HORIZON COLLEGE OF ENGINEERING** Outer ring road, Kadubeesanahalli, Near  
Marathahalli, Bengaluru-560103 **DEPARTMENT OF INFORMATION SCIENCE  
AND ENGINEERING**



## **CERTIFICATE**

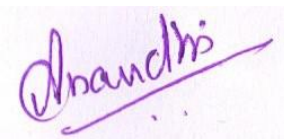
Certified that the project work entitled “**REMOTE MONITORING AND CONTROL UNIT OF SOLAR PHOTOVOLTAIC PLANT USING IOT**”, carried out by **Miss. Hamsa P O**(1NH17IS039), **Miss. Anusha K** (1NH17IS015) and **Mr. Girish R** (1NH17IS038),**Mr. prajwal G**(1NH17IS069) bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2019-20. 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.



Name & Signature of the Guide

**Dr .P. Mangayakarasi**



Name & Signature of the HOD

**Dr. R J Anandhi**



Signature of the Principal

**Dr. Manjunatha**

External Viva

Name of the Examiners

Signature with Date

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**NEW HORIZON  
COLLEGE OF ENGINEERING**

Autonomous College, Affiliated to VTU | Approved by AICTE New Delhi & UGC  
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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT**

ON

**“Human Disease Prediction Model – Machine Learning”**

Submitted in the partial fulfilment of the requirements in the 8<sup>th</sup> semester of

**BACHELOR OF ENGINEERING  
IN  
INFORMATION SCIENCE AND ENGINEERING**

BY

**MONISHA K [ 1NH17IS056 ]  
NIVEDHA S [ 1NH17IS062 ]  
ROSHNI P [ 1NH17IS082 ]  
RUSHIKA BALI [ 1NH17IS083 ]**

**Under the guidance of**

**Dr. D Kalaivani Harish ,**

Associate Professor, Dept. of ISE, NHCE

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**NEW HORIZON COLLEGE OF ENGINEERING**

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

Ring Road, Bellandur Post, Near  
Marathalli, Bangalore-560103,  
INDIA



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



**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**CERTIFICATE**

Certified that the project work entitled “Human Disease Prediction Model – Machine Learning”, carried out by **Ms. MONISHA K (1NH17IS056)**, **Ms. NIVEDHA S (1NH17IS062)**, **Ms. ROSHNI P (1NH17IS082)** and **Ms. RUSHIKA BALI (1NH17IS083)**, bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfilment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2020-21. 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.

Name & Signature of the  
Guide  
**Dr. D Kalaivani Harish**

Name & Signature of the  
HoD  
**Dr. R J Anandhi**

Name & Signature of the  
Principal  
**Dr. Manjunatha**

**External Viva**

Name of the Examiners

Signature with Date

- 1.
- 2.



# **NEW HORIZON COLLEGE OF ENGINEERING**

New Horizon Knowledge Park, Ring Road, Marathalli  
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC  
Accredited by NAAC with 'A' Grade. Accredited by NBA

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## **A PROJECT REPORT**

ON

### **“VIDEO STEGANOGRAPHY IN THE FIELD OF E- HEALTHCARE”**

Submitted in the partial fulfillment of the requirements in the 8th semester of

BACHELOR OF ENGINEERING IN  
INFORMATION SCIENCE AND ENGINEERING

BY

A JAMUNA (1NH17IS001)  
BRUNDA S G  
(1NH17IS022) DHARANI  
(1NH17IS032) EDWIN  
JOSHUA JOHN  
(1NH17IS036)

Under the guidance of

Dr. Kalaivani D,  
Associate Professor,  
Dept. of ISE, NHCE.

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING NEW HORIZON

COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Bellandur Post, Near Marathalli,  
Bangalore-560103, INDIA



# NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli  
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC  
Accredited by NAAC with 'A' Grade, Accredited by NBA

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## CERTIFICATE

Certified that the project work entitled “Video Steganography in the field of e - healthcare”, carried out by Ms. A Jamuna (1NH17IS001), Ms. Brunda S G (1NH17IS022), Ms. Dharani (1NH17IS032) and Mr. Edwin Joshua John (1NH17IS036), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2020-21. 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.

Name & Signature of the Guide

Dr. Kalaivani D

Name & Signature of the HOD

Dr. R J Anandhi

Signature of the Principal

Dr. Manjunatha

External Viva

Name of the Examiners

Signature with Date

1.

2.



**NEW HORIZON  
COLLEGE OF ENGINEERING**

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



**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON  
“MASK DETECTION BOT”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF ENGINEERING  
IN  
INFORMATION SCIENCE AND ENGINEERING**

By

**NETHAN SHAIK – 1NH17IS059**

**PAVEL ANUP – 1NH17IS011**

**KIRTI DEVI – 1NH17IS048**

**STEVENSON JACOB – 1NH17IS152**

**Under the guidance of**

**DR. SRINIVASAN L**

Associate Professor, Dept. of ISE, NHCE

**NEW HORIZON COLLEGE OF ENGINEERING**

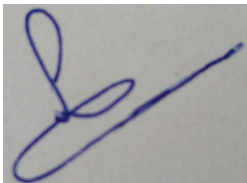
Outer ring road, Kadubeesanahalli, Near Marathahalli, Bengaluru-560103

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

***CERTIFICATE***

Certified that the project work entitled “**Mask Detection Bot**”, carried out by **Mr. Nethan Shaik** (1NH17IS059), **Mr. Pavel Anup** (1NH17IS011), **Ms. Kirti Devi** (1NH17IS048) and **Mr. Stevenson Jacob** (1NH17IS152), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2019-20. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

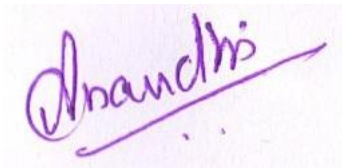
The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.



Name & Signature of the

Guide

**Dr. Srinivasan L**



Name & Signature of the

HOD

**Dr. R J Anandhi**



Signature of the

Principal

**Dr. Manjunatha**

External Viva

Name of the Examiners

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Signature with Date



**NEW HORIZON  
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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“Face-mask detection application”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF ENGINEERING  
IN  
INFORMATION SCIENCE AND ENGINEERING**

By

**UMA MAHESHWARI**

**1NH17IS085**

**SAHANA N REDDY**

**1NH17IS089**

**SANJANA SIVAKUMAR**

**1NH17IS091**

**Under the guidance of**

**DR. SRINIVASAN LAKSHMANAN**

Sr. Assistant Professor, Dept. of ISE, NHCE

**NEW HORIZON COLLEGE OF ENGINEERING**

Outer ring road, Kadubeesanahalli, Near Marathahalli, Bengaluru-560103

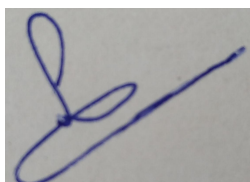
**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**



## ***CERTIFICATE***

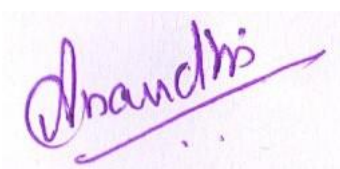
Certified that the project work entitled “**Facemask detection application**”, carried out by **Ms. Sahana N Reddy** (1NH17IS089), **Ms. Uma maheshwari** (1NH17IS085) and **Ms. Sanjana Sivakumar** (1NH17IS091), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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Name & Signature of the Guide

**Dr. Srinivasan Lakshmanan**



Name & Signature of the HOD

**Dr. R J Anandhi**



Signature of the Principal

**Dr. Manjunatha**

### External Viva

Name of the Examiners

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Signature with Date



**NEW HORIZON  
COLLEGE OF ENGINEERING**  
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC  
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**TOP ENGINEERING COLLEGE OF INDIA** as per  
NATIONAL INSTITUTIONAL RANKING FRAMEWORK, 2018  
Ministry of Human Resource Development, Government of India



# KSCST

**KARNATAKA STATE COUNCIL  
FOR SCIENCE AND TECHNOLOGY**

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT**

ON

**“The Covid Predictor Using Random Forest Classifier”**

Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of

**BACHELOR OF ENGINEERING**

IN

**INFORMATION SCIENCE AND ENGINEERING**

BY

SHAMI KATARAKI	(1NH17IS096)
SHARMISTHA CHITRANSH	(1NH17IS097)
SOWJANYA C V	(1NH17IS106)
ANEJA S	(1NH18IS400)

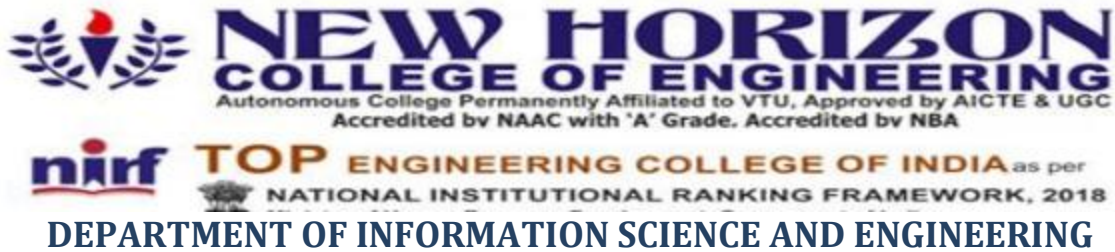
***Under the guidance of***

**Mrs. Supriya S,**  
Senior Assistant Professor,  
Dept. of ISE, NHCE

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**NEW HORIZON COLLEGE OF ENGINEERING**

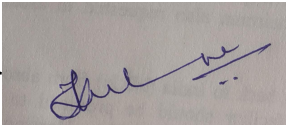
(Autonomous College Permanently Affiliated to VTU, Approved by AICTE, Accredited by  
NBA & NAAC with 'A' Grade)  
Ring Road, Bellandur Post, Near Marathalli,  
Bangalore-560103, INDIA



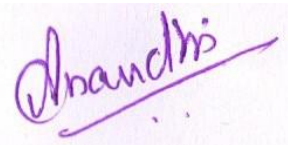
## CERTIFICATE

Certified that the project work entitled “The Covid Predictor Using Random Forest Classifier”, carried out by Ms. Shami Kataraki (1NH17IS096), Ms. Sharmistha Chitransh (1NH17IS097), Ms. Sowjanya C V (1NH17IS106) and Ms. Aneja S (1NH18IS400), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is inpartial fulfillment for the award of Bachelor of Engineering in Information Scienceand Engineering of the Visveswaraiah Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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For 

Name & Signature of the  
Guide  
**Mrs. Supriya S**



Name & Signature of the  
HoD  
**Dr. R J Anandhi**



Name & Signature of the  
Principal  
**Dr. Manjunatha**

### External Viva

Name of the Examiners

Signature with Date

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- 2.





# NEW HORIZON COLLEGE OF ENGINEERING

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



**TOP ENGINEERING COLLEGE OF INDIA** as per



**NATIONAL INSTITUTIONAL RANKING FRAMEWORK, 2018**

Ministry of Human Resource Development, Government of India

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### CERTIFICATE

Certified that the project work entitled “**Automatic Detection Of Crimes Captured In CCTV Images For Safety Of Senior Citizens**”, carried out by **Ms. Anitha B** (1NH17IS013), **Ms. Disha Singh** (1NH17IS034), **Ms. Divya Shree M** (1NH17IS035) and **Ms. Kushala R** (1NH17IS050), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2019-20. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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Name & Signature of the Guide

**Mrs. Baswaraju Swathi**

Name & Signature of the HOD

**Dr. R J Anandhi**

Signature of the Principal

**Dr. Manjunatha**

External Viva

Name of the Examiners

Signature with Date

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**NEW HORIZON  
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Autonomous College, Affiliated to VTU - Approved by AICTE New Delhi & UGC  
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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“SMART BAND FOR MONITORING VITALS FOR ELDERLY  
PEOPLE IN QUARANTINE”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF ENGINEERING  
IN  
INFORMATION SCIENCE AND ENGINEERING**

By

**SNEHA M  
1NH17IS104  
MEGHANA S  
1NH17IS135  
K N BHANU PRIYA  
1NH17IS046**

**Under the guidance of**

**Mrs. Karthiyayini J**  
Sr. Assistant Professor, Dept. of ISE, NHCE

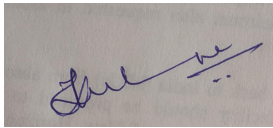
**NEW HORIZON COLLEGE OF ENGINEERING**  
Outer ring road, Kadubeesanahalli, Near Marathahalli, Bengaluru-560103

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

## ***CERTIFICATE***

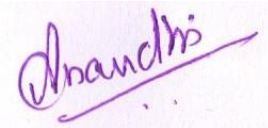
Certified that the project work entitled “**Smart Band for Monitoring Vitals for Elderly People in Quarantine**”, carried out by **Ms. Sneha M** (1NH17IS104), **Ms. Meghana S** (1NH17IS135) and **Ms. K N Bhanu Priya** (1NH17IS046), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswararajah Technological University, Belgaum during the year 2019-20. 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.



Name & Signature of the Guide

**Mrs. Karthiyayini J**



Name & Signature of the HOD

**Dr. R J Anandhi**



Signature of the Principal

**Dr. Manjunatha**

External Viva

Name of the Examiners

Signature with Date

- 1.
- 2.







**NEW HORIZON  
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**DEPARTMENT OF INFORMATION SCIENCE AND  
ENGINEERING**

***CERTIFICATE***

Certified that the project work entitled “□□□□□□□□□□□□□□: Cost effective social distance maintenance in primary schools”, carried out by **Ms. Harshitha Sundar Velu** (1NH17IS139), **Ms. Helen Hephzibah D** (1NH17IS042), **Ms. Joicy Castellino** (1NH17IS045) and **Ms. Simran Fathima** (1NH17IS101) Bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfilment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraya Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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Name & Signature of the Guide

**Mrs. Vandana C P**

Name & Signature of the HOD

**Dr. R J Anandhi**

Signature of the Principal

**Dr. Manjunatha**

External Viva

Name of the Examiners

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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“Vishesha Chetana”**

**An assistive tool for ASD**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF ENGINEERING  
IN  
INFORMATION SCIENCE AND ENGINEERING**

By

**Bhumika V  
1NH17IS020**

**Malavika N  
1NH17IS051**

**Under the guidance of**

**Mrs. RAFEGA BEHAM**

Sr. Assistant Professor, Dept. of ISE, NHCE

**NEW HORIZON COLLEGE OF ENGINEERING**

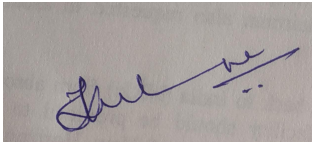
Outer ring road, Kadubeesanahalli, Near Marathahalli, Bengaluru-560103

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

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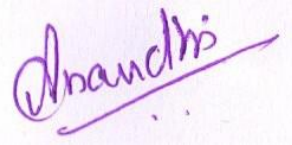
Certified that the project work entitled “**Vishesha Chetana**”, carried out by **Ms. Bhumika V**(1NH17IS020) and **Ms. Malavika N** (1NH17IS051),bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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Name & Signature of the Guide

**Mrs. Rafega Beham**



Name & Signature of the HOD

**Dr. R J Anandhi**



Signature of the Principal

**Dr. Manjunatha**

External Viva

Name of the Examiners

Signature with Date

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**NEW HORIZON  
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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“ IoT BASED HYGIENE MONITOR FOR SENIOR CITIZENS  
AND MENTALLY CHALLENGED”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF ENGINEERING  
IN  
INFORMATION SCIENCE AND ENGINEERING**

By

**YASHASWINI S(1NH17IS132)  
JUDY KENNEDY(1NH17IS142)  
CHARITHA V(1NH17IS148)  
VARSHA GOWDA S J (1NH17IS127)**

**Under the guidance of**

**MRS. MOUNICA B**

Sr. Assistant Professor,

Dept. of ISE, NHCE

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING  
NEW HORIZON COLLEGE OF ENGINEERING**

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

New Horizon Knowledge Park, Ring Road, Bellandur Post, Near Marathalli,

Bangalore-560103, INDIA



# NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli  
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC  
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project work entitled “**IoT BASED HYGIENE MONITOR FOR SENIOR CITIZENS AND MENTALLY CHALLENGED**”, carried out by **YASHASWINI S(1NH17IS132), JUDY KENNEDY(1NH17IS142), CHARITHA V(1NH17IS148), VARSHA GOWDA S J (1NH17IS127)**, bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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Name & Signature of the Guide

**Mrs. B. Mounica**

Name & Signature of the HOD

**Dr. R J Anandhi**

Signature of the Principal

**Dr. Manjunatha**

### External Viva

Name of the Examiners

Signature with Date

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**NEW HORIZON  
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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“Crop Damage Compensation Using Machine Learning”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF ENGINEERING  
IN  
INFORMATION SCIENCE AND ENGINEERING**

By

Mr. MANOJ R  
1NH17IS052

Mr. Aditya Kokanay  
1NH17IS004

Mr. Mervin Shibu George  
1NH17IS053

Mr. Dhanush R  
1NH17IS031

**Under the guidance of**

**Mr. GANGADHAR IMMADI,**

Senior Assistant Professor,

Department of ISE,

NHCE.

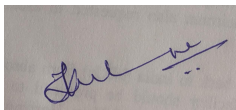
**NEW HORIZON COLLEGE OF ENGINEERING**

Outer ring road, Kadubeesanahalli, Near Marathahalli, Bengaluru-560103

***CERTIFICATE***

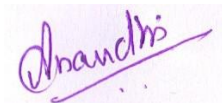
Certified that the project work entitled "**Crop Damage Compensation using Machine Learning**", carried out by **Mr. Manoj R**(1NH17IS052), **Mr. Aditya Kokanay** (1NH17IS004) **Mr. Mervin Shibu George** (1NH17IS053) and **Mr. Dhanush R** (1NH17IS031), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING,

Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2020-21. 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.



Name & Signature of the Guide

**Mr. Gangadhar Immadi**



Name & Signature of the HOD

**Dr. R J Anandhi**



Signature of the Principal

**Dr. Manjunatha**

External Viva

Name of the Examiners

Signature with Date1.

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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“Voice Based Touch Less lift”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF ENGINEERING**

**IN**

**INFORMATION SCIENCE AND ENGINEERING**

By

**AKSHAY S PRATHAP**

**1NH17IS009**

**AISWARYA V KUMAR**

**1NH17IS005**

**RANJITHA R**

**1NH17IS075**

**RAVITEJA KAKI**

**1NH17IS047**

**Under the guidance of**

**Ms. B Swathi**

**Sr. Assistant Professor, Dept. of ISE, NHCE**





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## CERTIFICATE

Certified that the project work entitled “**VOICE BASED TOUCH LESS LIFT**”, carried out by **Mr. AKSHAY S PRATHAP** (1NH17IS009), **Ms. AISWARYA V KUMAR**(1NH17IS005), **Ms. RANJITHA R** (1NH17IS075), and **Mr. RAVITEJA KAKI** (1NH17IS047), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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Name & Signature of the  
Guide

**Ms. B Swathi**

Name & Signature of the  
HOD

**Dr. R J Anandhi**

Signature of the  
Principal

**Dr. Manjunatha**

External Viva

Name of the Examiners

- 1.
- 2.

Signature with Date



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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“CREDIT CARD FRAUD DETECTION”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF  
ENGINEERING IN  
INFORMATION SCIENCE AND ENGINEERING**

By

**SWASTI CHOUDHARY**

**1NH17IS115**

**THAKUR KIRAN SINGH**

**1NH17IS119**

**NARENDRA KUMAR REDDY**

**1NH17IS141**

**VISHAL S BALAN**

**17IS146**

**Under the guidance of**

**MRS. DIVYA KV**

**Sr. Assistant Professor, Dept. of ISE, NHCE**

**NEW HORIZON COLLEGE OF ENGINEERING**

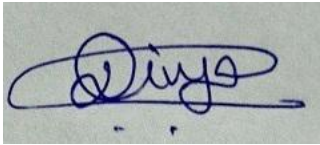
**Outerring road, Kadubeesanahalli, Near Marathahalli, Bengaluru - 560103**

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### ***CERTIFICATE***

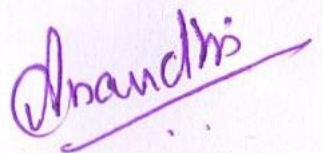
Certified that the project work entitled “**Credit Card Fraud Detection**”, carried out by **Ms. Swasti Choudhary** (1NH17IS115), **Ms. Thakur Kiran Singh** (1NH17IS119), **Mr. Narendra Kumar Reddy** (1NH17IS141) and **Mr. Vishal S Balan** (1NH17IS146), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswararajah Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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Name & Signature of the Guide

**Mrs. Divya K V**



Name & Signature of the HOD

**Dr. RJ Anandhi**



Signature of the Principal

**Dr. Manjunatha**

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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“Anti-theft mechanism for agricultural equipments”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF ENGINEERING  
IN  
INFORMATION SCIENCE AND ENGINEERING**

By

<b>Ashwal Srinivas</b>	<b>(1NH17IS136)</b>
<b>Sandeep PK</b>	<b>(1NH17IS090)</b>
<b>Vinay V Raj</b>	<b>(1NH17IS130)</b>
<b>Tejaswini SD</b>	<b>(1NH17IS118)</b>

**Under the guidance of**

**Dr. Gautam K. A**

Sr. Assistant Professor, Dept. of ISE, NHCE



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## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project work entitled “**Anti-theft mechanism for agricultural equipments**”, carried out by Mr. Ashwal Srinivas(1NH17IS136), Mr. Sandeep PK (1NH17IS109), Mr. Vinay V Raj(1NH17IS130), Ms. Tejaswini SD (1NH17IS118) bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2019-20. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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Name & Signature of the Guide

**Dr. Gautam K S**

Name & Signature of the HOD

**Dr. R J Anandhi**

Signature of the Principal

**Dr. Manjunatha**

External Viva

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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“MICROBOT BASED HOSTAGE RESCUE ASSISTANCE SYSTEM”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF ENGINEERING**

**IN**

**INFORMATION SCIENCE AND ENGINEERING**

By

**BHOOMIKA K C**

**1NH17IS019**

**DEEPTHI P**

**1NH17IS030**

**HARINI V N**

**1NH17IS040**

**POOJA S SINGH**

**1NH17IS068**

***Under the guidance of***

**MR. GAUTHAM K S**

Sr.Assistant Professor, Dept. of ISE, NHCE

**NEW HORIZON COLLEGE OF ENGINEERING**

Outer ring road, Kadubeesanahalli, Near Marathahalli, Bengaluru-56103

## **CERTIFICATE**

Certified that the project work entitled “MICROBOT BASED HOSTAGE RESCUE ASSISTANCE SYSTEM”, carried out by **Ms. Bhoomika K C** (1NH17IS019), **Ms. Deepthi P**(1NH17IS030) and **Ms. Harini V N** (1NH17IS040), **Ms. Pooja S Singh**(1NH17IS068) bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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Name & Signature of the Guide

**Mr. Gautham K S**

Name & Signature of the HOD

**Dr. R J Anandhi**

Signature of the Principal

**Dr. Manjunatha**

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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“Growth monitoring and ರಾಗಿನೀರಾವರಿ using IoT device”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF ENGINEERING**

**IN**

**INFORMATION SCIENCE AND ENGINEERING**

By

**Rachana M S(1NH17IS078)**

**N G Divya(1NH17IS060)**

**Pooja M Sajjan(1NH17IS067)**

**N Manvitha Reddy(1NH17IS057)**

**Under the guidance of**

**Mrs. Jessica Prathyusha**

Assistant Professor, Dept. of ISE, NHCE

**NEW HORIZON COLLEGE OF ENGINEERING**

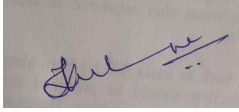
Outer ring road, Kadubeesanahalli, Near Marathahalli, Bengaluru-560103



## CERTIFICATE

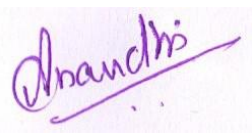
Certified that the project work entitled “**Growth monitoring and ರಾಗಿನೀರಾವರಿ using IoT device**”, carried out by Rachana M S(1NH17IS078), N G Divya(1NH17IS060), Pooja M Sajjan(1NH17IS067), N Manvitha Reddy(1NH17IS057), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2019-20. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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Name & Signature of the  
Guide

**Mrs. Jessica Prathyusha**



Name & Signature of the  
HOD

**Dr. R J Anandhi**



Name & Signature of the  
Principal

**Dr. Manjunatha**

External Viva

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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“3D Printed Model for Toothbrush with Toothpaste Pouch for  
Elderly”**

*Submitted in the partial fulfilment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF ENGINEERING  
IN  
INFORMATION SCIENCE AND ENGINEERING**

By

**Himanshu Bhatt (1NH17IS043)  
Hitesh Suhas (1NH17IS044)  
Mohammed Owez (1NH17IS055)  
Vishnu Vardhan Reddy (1NH17IS064)**

**Under the guidance of**

**Mrs. Bilvika KM**

Assistant Professor,  
Dept. of ISE, NHCE

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**NEW HORIZON COLLEGE OF ENGINEERING**

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Ring Road, Bellandur Post, Near Marathahalli, Bengaluru-560103, INDIA



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COLLEGE OF ENGINEERING**

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## CERTIFICATE

Certified that the project work entitled “3D Printed Model for Toothbrush with Toothpaste Pouch for Elderly” carried out by **Himanshu Bhatt (1NH17IS043)**, **Hitesh Suhas (1NH17IS044)**, **Mohammed Owez(1NH17IS055)**, **Vishnu Vardhan Reddy (1NH17IS064)**, bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfilment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraya Technological University, Belgaum during the year 2020-2021. 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.

*K. M. Bilvika*

Name & Signature of the Guide

**Mrs. Bilvika KM**

*Anandhi*

Name & Signature of the HOD

**Dr. R J Anandhi**

*Manjunatha*

Signature of the Principal

**Dr. Manjunatha**

External Viva

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**COLLEGE OF ENGINEERING**  
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**TOP ENGINEERING COLLEGE OF INDIA** as per  
NATIONAL INSTITUTIONAL RANKING FRAMEWORK, 2018  
Ministry of Human Resource Development, Government of India



**KSCST**  
KARNATAKA STATE COUNCIL  
FOR SCIENCE AND TECHNOLOGY

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT**

ON

**“iRing – A Smart Finger for the Visually Challenged”**

Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of

**BACHELOR OF ENGINEERING**

IN

**INFORMATION SCIENCE AND ENGINEERING**

BY

PREETHI S (1NH17IS072)  
SHALINI R S (1NH17IS095)  
SOUJANYA S (1NH17IS105)  
SUSHMITHA E (1NH17IS114)

**Under the guidance of**

**Mrs. Gowri Prasad,**  
Assistant Professor,  
Dept. of ISE, NHCE

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**  
**NEW HORIZON COLLEGE OF ENGINEERING**

(Autonomous College Permanently Affiliated to VTU, Approved by AICTE, Accredited by  
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Ring Road, Bellandur Post, Near Marathalli,



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NATIONAL INSTITUTIONAL RANKING FRAMEWORK, 2018  
Ministry of Human Resource Development, Government of India

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### CERTIFICATE

Certified that the project work entitled "iRing - A Smart Finger for the Visually Challenged", carried out by Ms. Preethi S (1NH17IS072), Ms. Shalini R S (1NH17IS095), Ms. Soujanya S (1NH17IS105) and Ms. Sushmitha E (1NH17IS114), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2020-21. 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.

Name & Signature of the  
Guide  
**Mrs. Gowri Prasad**

Name & Signature of the  
HoD  
**Dr. R J Anandhi**

Name & Signature of the  
Principal  
**Dr. Manjunatha**

### External Viva

Name of the Examiners

Signature with Date

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**NEW HORIZON  
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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“IOT BASED AUTO-ALERT AND FOLLOW-UP OF COVID-19  
CASES IN AN EDUCATIONAL CAMPUS”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF ENGINEERING  
IN  
INFORMATION SCIENCE AND ENGINEERING**

By

**UJWAL P B  
1NH17IS122  
AKASH K R  
1NH17IS006  
UTTAM GOWDA H G  
1NH17IS123  
CHETHAN Y G  
1NH17IS026**

**Under the guidance of**

**MRS. LOHITHA M**

Sr. Assistant Professor, Dept. of ISE, NHCE

**NEW HORIZON COLLEGE OF ENGINEERING**

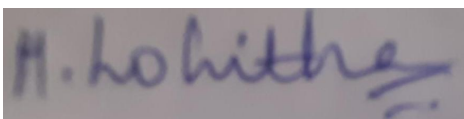
Outer ring road, Kadubeesanahalli, Near Marathahalli, Bengaluru-560103

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

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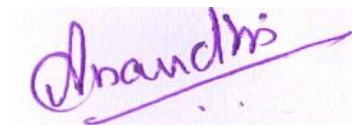
Certified that the project work entitled “**IOT based Auto-alert and follow-up of covid-19 cases in an educational campus**”, carried out by **Mr. Ujwal P B** (1NH17IS122), **Mr. Akash K R**(1NH17IS006) and **Mr. Uttam Gowda H G**(1NH17IS123), **Mr. Chethan Y G**(1NH17IS026) bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2019-20. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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Name & Signature of the Guide

**Mrs. Lohitha M**



Name & Signature of the HOD

**Dr. R J Anandhi**



Signature of the Principal

**Dr. Manjunatha**

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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“Land Use Case and Utilization Classification using CNN”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester  
of*

**BACHELOR OF ENGINEERING  
IN  
INFORMATION SCIENCE AND ENGINEERING**

By

**RS SATHVIK REDDY- 1NH17IS076  
VARDHINI V-1NH17IS125  
T PRANEETH-1NH17IS116  
A.SASSANK GOPAL REDDY-1NH17IS007**

**Under the guidance of**

**Dr. P. Mangayarkarasi**

**Sr. Associate Professor, Dept. of ISE, NHCE**



**NEW HORIZON COLLEGE OF ENGINEERING**

Outer ring road, Kadubeesanahalli, Near Marathahalli, Bengaluru-560103

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

***CERTIFICATE***

Certified that the project work entitled “**Land Use Case and Utilization Classification using CNN**”, carried out by **Mr. Sathvik Reddy (1NH17IS076)**, **VARDHINI V (1NH17IS125)**, **T. Praneeth Vamshi (1NH17IS116)** and **Mr Sassank Reddy, (1NH17IS007)** bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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Name & Signature of the Guide

**Dr. P. Mangayarkarasi**

Name & Signature of the HOD

**Dr. R J Anandhi**

Signature of the Principal

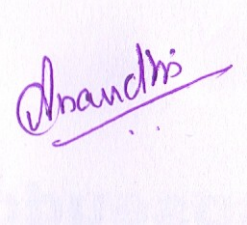
**Dr. Manjunatha**

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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON  
“INDIAN LEGAL ADVICE AND GUIDELINE FOR WOMEN  
EMPOWERMENT SYSTEM”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester  
of*

**BACHELOR OF ENGINEERING  
IN  
INFORMATION SCIENCE AND ENGINEERING**

By

**AYUSH SHARMA**

**1NH17IS018**

**KHEMRAJ SHAH**

**1NH16IS130**

**SAGAR KHADKA**

**1NH17IS087**

**PRANOY ROY**

**1NH17IS070**

***Under the guidance of***

**DR. ARVIND S KAPSE**

Professor, Dept. of ISE, NHCE

---

**NEW HORIZON COLLEGE OF ENGINEERING**

Outer ring road, Kadubesanahalli, Near Marathahalli, Bengaluru-560103

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

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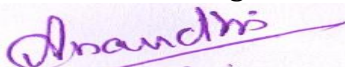
Certified that the project work entitled “**Indian Legal Advice And Guideline System For Women Empowerment System**”, carried out by

**Mr. Ayush Sharma** (1NH17IS018), **Mr. Khemraj Shah** (1NH16IS130) and **Mr. Sagar Khadka** (1NH17IS087), **Mr. Pranoy Roy** (1NH17IS070), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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**Dr. R J Anandhi**



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**Dr. Manjunatha**

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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“FACE AND HAND GESTURE RECOGNITION SYSTEM FOR  
CONTROLLING VLC MEDIA PLAYER”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF ENGINEERING**

**IN**

**INFORMATION SCIENCE AND ENGINEERING**

By

**SNEHA B K**

**1NH17IS103**

**SAHANA K M**

**1NH17IS088**

**TEJASWINI S M PATIL**

**1NH17IS144**

**Under the guidance of**

**MRS. BILVIKA K M**

Assistant Professor, Dept. of ISE, NHCE

## NEW HORIZON COLLEGE OF ENGINEERING

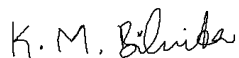
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## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

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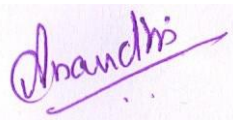
Certified that the project work entitled “**Face and Hand Gesture Recognition System for Controlling VLC Media Player**”, carried out by **Ms. Sneha B K**(1NH17IS103), **Ms. Sahana K M** (1NH17IS088) and **Ms. Tejaswini S M Patil** (1NH17IS144), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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Name & Signature of the Guide

**Mrs. Bilvika K M**



Name & Signature of the HOD

**Dr. R J Anandhi**



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**Dr. Manjunatha**

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NATIONAL INSTITUTIONAL RANKING FRAMEWORK, 2018  
Ministry of Human Resource Development, Government of India

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT**

ON

**“TRAFFIC ANALYSIS USING IMAGE PROCESSING”**

Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of

**BACHELOR OF ENGINEERING**

IN

**INFORMATION SCIENCE AND ENGINEERING**

BY

**NITHYABS (1NH17IS137)**

**RAKSHITHA N (1NH17IS080)**

**SIRISHAM (1NH17IS102)**

***Under the guidance of***

**Mrs. Mounica B,**

Sr. Assistant Professor,

Dept. of ISE, NHCE

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**NEW HORIZON COLLEGE OF ENGINEERING**

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

Ring Road, Bellandur Post, Near Marathalli,

Bangalore-560103, INDIA



## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### CERTIFICATE

Certified that the project work entitled "Traffic Analysis Using Image Processing", carried out by Ms. Nithya B S (1NH17IS137), Ms. Rakshitha N (1NH17IS080), Ms. Sirisha M (1NH17IS102) and, bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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Name & Signature of the  
Guide  
**Mrs. Mounica B**

Name & Signature of the  
HoD  
**Dr. R J Anandhi**

Name & Signature of the  
Principal  
**Dr. Manjunatha**

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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

***“CHAT BUD A VIRTUAL CHAT APPLICATION”***

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester  
of*

**BACHELOR OF ENGINEERING**

**IN**

**INFORMATION SCIENCE AND ENGINEERING**

By

**ANDREW WINSTON**

**1NH16IS144**

**PRABHAT KUMAR SAHU**

**1NH16IS077**

**SABAREE DAS**

**1NH16IS092**

**SAI VINAY REDDY**

**1NH16IS095**

***Under the guidance of***

**Mrs. M Shanmugham Shoba**

Sr. Assistant Professor, Dept. of ISE, NHCE





**NEW HORIZON  
COLLEGE OF ENGINEERING**

Autonomous College, Affiliated to VTU | Approved by AICTE New Delhi & UGC  
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## CERTIFICATE

Certified that the project work entitled “**CHAT BUD A VIRTUAL CHAT APPLICATION**”, carried out by **Mr.ANDREW WINSTON(1NH6IS144)**, **Mr. PRABHAT KUMAR SAHU(1NH16IS077)**, **Ms. SABAREE DAS(1NH16IS092)**,and **Mr. SAI VINAY REDDY(1NH16IS095)**, bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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Name & Signature of the  
Guide

**Mrs. M Shanmugham Shoba**

Name & Signature of the  
HOD

**Dr. R J Anandhi**

Signature of the  
Principal

**Dr. Manjunatha**

External Viva

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**NEW HORIZON  
COLLEGE OF ENGINEERING**

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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON  
“FACE RECOGNITION FOR AUTOMATED STUDENT ATTENDANCE  
SYSTEM”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF ENGINEERING  
IN  
INFORMATION SCIENCE AND ENGINEERING**

By

**VIMAL GOWDA R**

**1NH17IS151**

**YASHWANTH M**

**1NH17IS133**

**SHRIVATSA HEGDE**

**1NH17IS100**

**UDAY M R**

**1NH17IS121**

**Under the guidance of**

**DR. ARAVIND S. KAPSE**

Sr. Assistant Professor, Dept. of ISE, NHCE

**NEW HORIZON COLLEGE OF ENGINEERING**

Outer ring road, Kadubeesanahalli, Near Marathahalli, Bengaluru-560103

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

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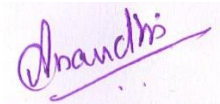
Certified that the project work entitled “**FACE RECOGNITION FOR AUTOMATED STUDENT ATTENDANCE SYSTEM**”, carried out by **Mr. Vimal Gowda R(1NH17IS151), Mr. Yashwanth M(1NH17S133), Mr. Shrivatsa Hegde(1NH17IS100), and Mr. Uday M R(1NH17IS121)**, bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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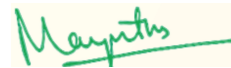
Name & Signature of the  
Guide

**Mr. Dr. Aravind S. Kapse**



Name & Signature of the  
HOD

**Dr. R J Anandhi**



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Principal

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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“Currency detection for the Blind”**

*Submitted in the partial fulfilment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF ENGINEERING**

**IN**

**INFORMATION SCIENCE AND ENGINEERING**

By

**Sudeep S (1NH17IS109)  
Rahul S Beelur (1NH17IS079)  
Sathwik S Shetty (1NH17IS092)  
Rohit M (1NH17IS143)**

**Under the guidance of**

**Mrs. Rafega Beham**

Sr. Assistant Professor,  
Dept. of ISE, NHCE

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**NEW HORIZON COLLEGE OF ENGINEERING**

(Autonomous College Permanently Affiliated to VTU, Approved by AICTE, Accredited by  
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Ring Road, Bellandur Post, Near Marathahalli, Bengaluru-560103, INDIA



**NEW HORIZON  
COLLEGE OF ENGINEERING**

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## CERTIFICATE

Certified that the project work entitled “**Currency Detection for the Blind**” carried out by **Mr. Sudeep S** (1NH17IS109), **Mr. Rahul S Beelur** (1NH17IS079), **Mr. Sathwik S Shetty** (1NH17IS092), **Mr. Rohit M** (1NH17IS143) bona fide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfilment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraya Technological University, Belgaum during the year 2020-2021. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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Name & Signature of the Guide

**Mrs. Rafega Beham**

Name & Signature of the HOD

**Dr. R J Anandhi**

Signature of the Principal

**Dr. Manjunatha**

External Viva

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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“Learning Management System”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF ENGINEERING**

**IN**

**INFORMATION SCIENCE AND ENGINEERING**

By

**RAKSHITHP**

**1NH14IS084**

**PRAJWAL**

**1NH17IS000**

**MANISH KARGHA**

**1NH17IS000**

**Under the guidance of**

**Mrs.LOHITHA M**

Assistant Professor, Dept. of ISE, NHCE

**NEW HORIZON COLLEGE OF ENGINEERING**

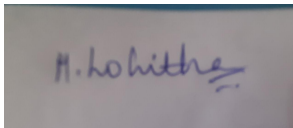
Outer ring road, Kadubeesanahalli, Near Marathahalli, Bengaluru-560103

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

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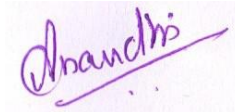
Certified that the project work entitled “**Learning Management System**”, carried out by **Mr.RAKSHITH P** (1NH14IS084), **Mr. PRAJWAL**(1NH17IS017) and **Mr.MANISH KARGHA** (1NH17IS029) bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2019-20. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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Name & Signature of the Guide

**Mrs.Lohitha M**



Name & Signature of the HOD

**Dr. R J Anandhi**



Signature of the Principal

**Dr. Manjunatha**

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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**  
**“SMART WEBSITE FOR VISUALLY CHALLENGED PEOPLE”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF ENGINEERING**  
**IN**  
**INFORMATION SCIENCE AND ENGINEERING**

By

<b>Bishal Kumar Sah</b>	<b>1NH17IS021</b>
<b>Niranjana Yadav</b>	<b>1NH17IS061</b>
<b>Rohitashav Soni</b>	<b>1NH17IS138</b>
<b>Vishal Mishra</b>	<b>1NH14IS123</b>

**Under the guidance of**

**Prof. GOWRI PRASAD**

Assistant Professor, Dept. of ISE, NHCE

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**NEW HORIZON COLLEGE OF ENGINEERING**

Outer ring road, Kadubeesanahalli, Near Marathahalli, Bengaluru-560103





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## ***CERTIFICATE***

Certified that the project work entitled “**Smart Website For Visually Challenged People**”, carried out by **Mr. Bishal Kumar Sah** (1NH17IS021), **Mr. Niranjan Yadav** (1NH17IS061), **Mr. Rohitashav Soni** (1NH17IS138) and **Mr. Vishal Mishra** (1NH14IS123) bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswararajah Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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Name & Signature of the Guide

**Mrs. Gowri Prasad**

Name & Signature of the HOD

**Dr. R J Anandhi**

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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“SMART WATER MONITORING SYSTEM USING COST-EFFECTIVE  
IOT”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF ENGINEERING  
IN  
INFORMATION SCIENCE AND ENGINEERING**

By

**HARSHAVARDHAN C R**

**1NH17IS023**

**DARSHAN SHETTY**

**1NH17IS028**

**P KUMAR SATEESH**

**1NH17IS063**

**GOWTHAM S**

**1NH17IS147**

**Under the guidance of**

**Mrs.JESSICA PRATHYUSHA D**

Sr.Asst.Professor

NewHorizonCollege of Engineering

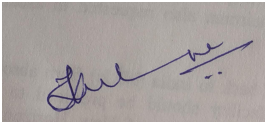
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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

***CERTIFICATE***

Certified that the project work entitled “**SMART WATER MONITORING SYSTEM USING COST-EFFECTIVE IOT**”, carried out By **Harsha Vardhan C R (1NH17IS023), Darshan Shetty(1NH17IS028), P Kumar Sateesh(1NH17is063), Gowtham S(1NH17IS147)** Bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiiah Technological University, Belgaum during the year 2020-21. 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.



Name & Signature of the Guide

**Mrs. Jessica Prathyusha D**



Name & Signature of the HOD

**Dr. R J Anandhi**



Signature of the Principal

**Dr. Manjunatha**

External Viva

Name of the Examiners

Signature with Date

- 1.
- 2.



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



**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“Fake News Detection Using Deep Learning”**

Submitted in the partial fulfilment of the requirements in the 8<sup>th</sup> semester of

**BACHELOR OF ENGINEERING**

**IN**

**INFORMATION SCIENCE AND ENGINEERING**

**BY**

**SUJITH RAMPRASAD**

**1NH17IS111**

**SAURAV NAMBIAR**

**1NH17IS093**

**SUHAS SRINIVAS**

**1NH17IS110**

**RISHANK SHARMA**

**1NH17IS081**

***Under the guidance of***

**MRS.DIVYA K V**

Sr. Asst. Professor,

Dept. of ISE, NHCE

**DEPARTMENT OF INFORMATION SCIENCE AND  
ENGINEERING NEW HORIZON COLLEGE OF  
ENGINEERING**



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## **CERTIFICATE**

Certified that the project work entitled “**Fake News Detection Using Deep Learning**”, carried out by Mr.Sujith Ramprasad(1NH17IS111), Mr.Saurav Nambiar(1NH17IS093),Mr.Suhas Srinivas(1NH17IS110) and Mr.Rishank Sharma(1NH17IS081), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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Signature of the Guide

Mrs.Divya K V

Signature of the HOD

Dr. R J Anandhi

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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“Monitoring Public Areas for Situational Violations  
using Deep Learning”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF ENGINEERING**

**IN**

**INFORMATION SCIENCE AND ENGINEERING**

By

**SRIVATSA RV - 1NH17IS108**

**SHOPHY TYAGI - 1NH17IS099**

**SUMANTH REDDY - 1NH17IS112**

**Under the guidance of**

**Prof. Gangadhar Immadi**

Sr. Assistant Professor, Dept. of ISE, NHCE

## NEW HORIZON COLLEGE OF ENGINEERING

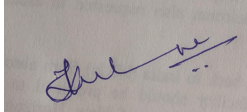
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## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### ***CERTIFICATE***

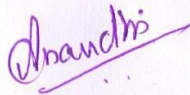
Certified that the project work entitled "**Monitoring Public Areas for Situational Violations using Deep Learning**", carried out by **Mr. Srivatsa RV (1NH17IS108)**, **Mr. Sumanth Reddy (1NH17IS112)** and **Ms. Shophy Tyagi, (1NH17IS99)** bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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Name & Signature of the  
Guide

**Mr. Gangadhar Immadi**



Name & Signature of the  
HOD

**Dr. R J Anandhi**



Signature of the Principal

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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“STATISTICAL ANALYSIS AND VISUALIZATION OF COVID-19”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF ENGINEERING  
IN  
INFORMATION SCIENCE AND ENGINEERING**

By

**RAAHUL NARAYANA REDDY K**

**1NH17IS077**

**PRASANNA BHAT**

**1NH17IS071**

**APURBA BHATTACHARJEE**

**1NH17IS016**

**SRINIVAS M**

**1NH17IS107**

**Under the guidance of**

**Mrs. M Shanmugham Shoba**

**Sr. Assistant Professor, Dept. of ISE, NHCE**





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## CERTIFICATE

Certified that the project work entitled **“STATISTICAL ANALYSIS AND VISUALIZATION OF COVID-19”**, carried out by **Mr. RAAHUL NARAYANA REDDY K (1NH17IS077)**, **Mr. PRASANNA BHAT (1NH17IS071)**, **Ms. APURBA BHATTACHARJEE (1NH17IS016)**, and **Mr. SRINIVAS M (1NH17IS107)**, bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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Name & Signature of the  
Guide

**Mrs. M Shanmugham Shoba**

Name & Signature of the  
HOD

**Dr. R J Anandhi**

Signature of the  
Principal

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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**A PROJECT REPORT ON**

**“VR Simulation of Chemistry Lab using Blender and Unity”**

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

**BACHELOR OF ENGINEERING  
IN  
INFORMATION SCIENCE AND ENGINEERING**

By

**Shijo Yohannan**

**1NH17IS098**

**Purab Shreeniwas**

**1NH17IS073**

**Shailesh P M**

**1NH17IS094**

**Syed Sahil Abbas**

**1NH17IS149**

**Under the guidance of**

**Mrs. Vandana C P**

Sr. Assistant Professor, Dept. of ISE, NHCE

**NEW HORIZON COLLEGE OF ENGINEERING**

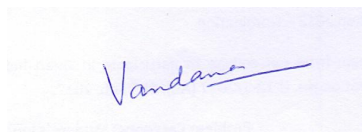
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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

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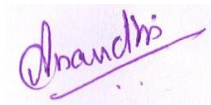
Certified that the project work entitled “**Chemistry lab simulation in VR**”, carried out by **Mr. Shijo Yohannan** (1NH17IS098), **Mr. Purab Shreeniwas** (1NH17IS073), **Mr. Shailesh P M** (1NH17IS094) and **Mr. Syed Sahil Abbas**(1NH17IS149), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

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Name & Signature of the Guide

**Mrs. Vandana CP**



Name & Signature of the HOD

**Dr. R J Anandhi**



Signature of the Principal

**Dr. Manjunatha**

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