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Department of Computer Science & Engineering
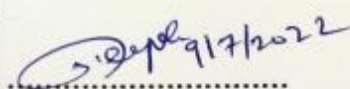
KSSEM

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"Scheduling Department Activities and Timetable"** is a bonafide work carried out by:

Adithi M C	1KG18CS003
Aishwarya S	1KG18CS005
Brundha P	1KG18CS020
Chinmye H H	1KG18CS025

in partial fulfilment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.
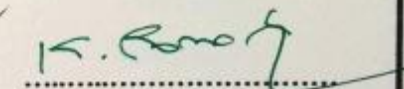
9/7/2022

....
Signature of the Guide

Signature of the HOD

Signature of the Principal

[Mr. Deepak M D]

[Dr. K Venkata Rao]

[Dr. K Rama Narasimha]

HOD
Dept. of Computer Science & Engineering
K.S. School of Engineering & Management
Bangalore-560 062.

Dr. K. RAMA NARASIMHA
Principal/Director
K S School of Engineering and Managem
Bengaluru - 560 109

K. S. School of Engineering and Management

#15, Mallasandra, off. Kanakapura Road, Bengaluru - 560109

Department of Computer Science & Engineering

KSSEM

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"Emotion Recognition of students during project review"** is a bonafide work carried out by:

C Amruta Gayatri	1KG18CS021
Durgi Sobha	1KG19CS402
Dhanushree D.B	1KG18CS030
Bhashyam Keerthikumar	1KG18CS018

in partial fulfillment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.

R.S Geethanjali.

Signature of the Guide

[Mrs. R S Geethanjali]

Signature of the HOD

[Dr. K Venkata Rao]
HOD
Dept. of Computer Science & Engineering
K.S. School of Engineering & Management
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Signature of the Principal

[Dr. K Rama Narasimha]
Dr. K. RAMA NARASIMHA
Principal/Director
K S School of Engineering and Managen
Bengaluru - 560 109

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Department of Computer Science & Engineering

KSSEM

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"Mood Recognition and Timepoint Identification of Faculty in Classroom"** is a bonafide work carried out by:
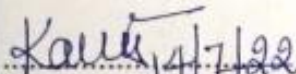
Meghana A S	**1KG18CS055**
Meghana K V	**1KG18CS056**

in partial fulfilment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.

Signature of the Guide	**Signature of the HOD**	**Signature of the Principal**
[Mrs. Kavitha K S]	[Dr. K Venkata Rao]	[Dr. K Rama Narasimha]
	HOD	Dr. K. RAMA NARASIMHA
	Dept. of Computer Science & Engineering	Principal/Director
	K.S. School of Engineering & Management	K.S School of Engineering and Management
	Bangalore-560 062	Bengaluru - 560 109

K. S. School of Engineering and Management

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Department of Computer Science & Engineering

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"Message Forwarding Using Hand Gesture"** is a bonafide work carried out by:

Chandana R K	1KG18CS023
Goutham R P	1KG18CS038
Guru Prasad K A	1KG18CS039
Jayanth N	1KG18CS042

in partial fulfilment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.

Signature of the Guide

[Mrs. Chandana V S]

Signature of the HOD

[Dr. K Venkata Rao]
HOD
Dept. of Computer Science & Engineering
K.S. School of Engineering & Management
Bangalore-560 062

Signature of the Principal
Dr. K. RAMA NARASIMHA
[Dr. K Rama Narasimha]
Principal/Director
K S School of Engineering and Management
Bengaluru - 560 109

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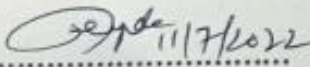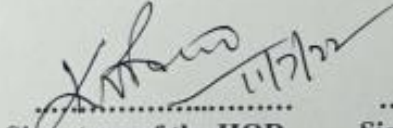## Department of Computer Science & Engineering

KSSEM

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"Location Detection Using Surrounding"** is a bonafide work carried out by:

N. Jaswanth sai	**1KG18CS062**
Prajwal N	**1KG18CS080**
Praveen P.S	**1KG18CS082**
Sanjay Subramanya Bhat	**1KG18CS097**

in partial fulfillment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.

11/7/2022

Signature of the Guide
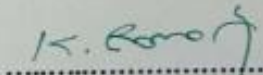
[Mr. Deepak M.D]

11/7/22

Signature of the HOD

[Dr. K Venkata Rao]

HOD
Dept. of Computer Science & Engineering
K.S. School of Engineering & Management
Bangalore - 560109

Signature of the Principal

[Dr. K Rama Narasimha]

Dr. K. RAMA NARASIMHA
Principal/Director
K S School of Engineering and Management
Bengaluru - 560 109

K. S. School of Engineering and Management

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Department of Computer Science & Engineering

KSSEM

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"Student Marks Prediction Using Machine Learning Techniques"** is a bonafide work carried out by:

A Harika	1KG18CS001
Akshatha K A	1KG18CS006
Anirudh A	1KG18CS011
Eesha B S	1KG18CS034

in partial fulfilment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.

Signature of the Guide	**Signature of the HOD**	**Signature of the Principal**
Mrs. Sandhya A Kulkarni	Dr. K Venkata Rao	Dr. K RAMA NARASIMHA
Assistant Professor	**Professor, Head of Department.,**	**Principal and Director**
K.S.S.E.M, Bengaluru	K.S.S.E.M, Bengaluru	K.S.S.E.M., Bengaluru

HOD
Dept. of Computer Science & Engineering
K.S. School of Engineering & Management
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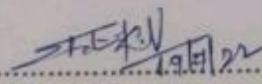## Department of Computer Science & Engineering
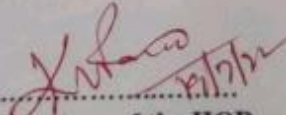

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"Audio de-noising of a classroom lecture"** is a bonafide work carried out by:

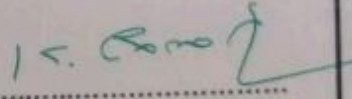|	
Deepak T N	1KG18CS027
Dravid B	1KG18CS032
Jayanth J	1KG18CS041
Bharath P	1KG19CS401

in partial fulfilment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.

Signature oftheGuide

[Mrs. Shalini K V]

Signature of the HOD

[Dr. K Venkata Rao]
HOD
Dept. of Computer Science & Engineering
K.S. School of Engineering & Management
Bangalore-560 062

Signature of thePrincipal

[Dr. K Rama Narasimha]
Dr. K RAMA NARASIMHA
Principal/Director
K S School of Engineering and Manage
Bengaluru - 560 109

K. S. School of Engineering and Management

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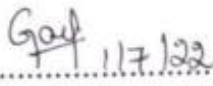## Department of Computer Science & Engineering

KSSEM

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"Development of Mobile Application for College Information using Android"** is a bonafide work carried out by:

Pawan R	1KG18CS073
Purushotham Reddy J	1KG18CS085
T Sandhya	1KG18CS114
Vijaya Lakshmi S	1KG18CS122

in partial fulfilment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.

....
Signature of the Guide

[Mrs. Gargi N]

....
Signature of the HOD

[Dr. K Venkata Rao]

....
Signature of the Principal

Dr. K. RAMA NARASIMHA
[Dr. K Rama Narasimha]
K S School of Engineering and Management
Bengaluru - 560 109

~ HOD ~
Dept. of Computer Science & Engineering
K.S. School of Engineering & Management
Bangalore-560 062

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Department of Computer Science and Engineering

Certificate

*This is to certify that the project work entitled "**Quiz Conduction App With QR Code**" is a bonafide work carried out by*

Pagadala Hemanth	1KG18CS071
G Poorna Chandra	1KG18CS078
Sabhyath B	1KG18CS094
Sean Kevin S	1KG18CS098

*in partial fulfilment for the award of **Bachelor of Engineering in Computer Science and Engineering** of Visvesvaraya Technological University, Belagavi, during the year 2021-22. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report which satisfies the academic requirement in respect of project work prescribed for the degree.*

Mrs.Jayashubha J
Associate Professor
Internal Guide

Dr. K Venkata Rao
Professor and Head
Dept. of CSE
Dept. of Computer Science & Engineering
K.S. School of Engineering & Management
Bangalore-560 062

Dr. K. Rama Narasimha
Principal/Director
KSSEM

Dr. K. RAMA NARASIMHA
Principal/Director
K S School of Engineering and Management
Bengaluru - 560 109

University Examiners:

_____
Name and Signature of Examiner-1

_____
Name and Signature of Examiner-2

K. S. School of Engineering and Management

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Department of Computer Science & Engineering

KSSEM

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled "Deletion of Duplicate files and images using hashing algorithm" is a bonafide work carried out by:

Nisarga P	1KG18CS066
Shilpa G R	1KG18CS101
Shivani B Kulkarni	1KG18CS102
Usha R	1KG18CS117

in partial fulfillment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.

....
Signature of the Guide

....
Signature of the HOD

....
Signature of the Principal

[Mrs.Nagaveni B Nimbal]

[Dr. K Venkata Rao]
Dept. of Computer Science & Engineering
K.S. School of Engineering & Management
Bangalore-560 062

[Dr. K Rama Narasimha]
Dr. K. RAMA NARASIN
Principal/Director
K S School of Engineering and M
Bengaluru - 560 109

K. S. School of Engineering and Management

#15, Mallasandra, off. Kanakapura Road, Bengaluru - 560109

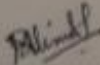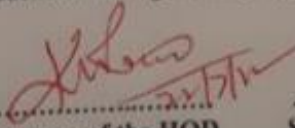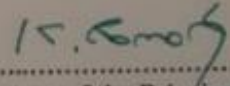## Department of Computer Science & Engineering

KSSEM

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"Text Summarization of Covid Data using Machine Learning Techniques"** is a bonafide work carried out by:

AMITHA S M	**1KG18CS008**
AMULYA D M	**1KG18CS009**
DEEKSHITHA V REDDY	**1KG18CS026**
DEEPTHI T E	**1KG18CS028**

in partial fulfilment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.

....
Signature of the Guide

[Mrs. Sandhya A Kulkarni]

....
Signature of the HOD

[Dr. K Venkata Rao]

— HOD
Dept. of Computer Science & Engineering
K.S. School of Engineering & Management
Bangalore-560 062

....
Signature of the Principal

Dr. K. RAMA NARASIMHA
[Dr. K Rama Narasimha]
K S School of Engineering and Management
Bengaluru - 560 109

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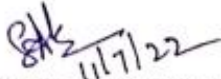## Department of Computer Science & Engineering

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"Advanced Navigation System and Detection of Speed Breakers"** is a bonafide work carried out by:

Atul Thakur	**1KG17CS008**
Anusha Ramnath	**1KG18CS014**
Manisha Rai	**1KG18CS052**
Nafeesa Banu	**1KG18CS060**

in partial fulfilment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.

....
Signature of the Guide

....
Signature of the HOD

....
Signature of the Principal

Mrs. Nita Meshram

Dr. K Venkata Rao
HOD
Dept. of Computer Science & Engineering
K.S. School of Engineering & Management
Bengaluru - 560 062

Dr. K Rama Narasimha
Dr. K. RAMA NARASIMHA
Principal/Director
K.S. School of Engineering and Management
Bengaluru - 560 109

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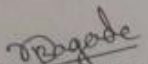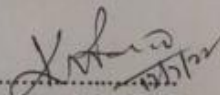## Department of Computer Science & Engineering

KSSEM

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"Detection of Masked Faces using OpenCV and Tensorflow"** is a bonafide work carried out by:

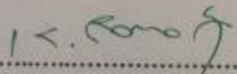|	
Adarsh P	**1KG18CS002**
Sai Rohit	**1KG18CS033**
Jeevan Sai G	**1KG18CS043**
Kruthika B	**1KG18CS048**

in partial fulfilment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.

....
Signature of the Guide

[Mrs. Amitha S]

....
Signature of the HOD

[Dr. K Venkata Rao]
HOD
Dept. of Computer Science & Engineering
K.S. School of Engineering & Management
Bangalore-560 062.

....
Signature of the Principal

[Dr. K Rama Narasimha]

K. S. School of Engineering and Management
#15, Mallasandra, off. Kanakapura Road, Bengaluru - 560109

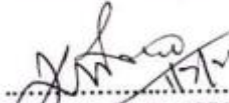## Department of Computer Science & Engineering
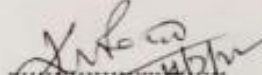
KSSEM

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"Detection Of Road With Less Air Quality Index and Alert The Best Route"** is a bonafide work carried out by:

LAKSHMI J	**1KG18CS049**
MALAVIKA	**1KG18CS051**
MEGHA M L	**1KG18CS054**
MONICA V	**1KG18CS059**

in partial fulfilment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.

....
Signature of the Guide

[Mrs. Meena G]

....
Signature of the HOD

[Dr. K Venkata Rao]
HOD
Dept. of Computer Science & Engineering
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Bangalore-560 062.

....
Signature of the Principal

[Dr. K Rama Narasimha]
Dr. K. RAMA NARASIMHA
Principal/Director
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Bengaluru - 560 109

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Department of Computer Science & Engineering

KSSEM

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"Predict the Usage of WhatsApp Using Machine Learning"** is a bonafide work carried out by:

Adithi N	1KG18CS004
Anusha H	1KG18CS012
Anusha N	1KG18CS013
Athmika H R	1KG18CS016

in partial fulfilment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.

Signature of the Guide   Signature of the HOD   Signature of the Principal
                                                             Dr. K. RAMA NARASIMHA
[Meena G]   [Dr. K Venkata Rao]   Principal/Director
                                HOD   [Dr. K Rama Narasimha]
                                Dept. of Computer Science & Engineering   K S School of Engineering and Management
                                K.S. School of Engineering & Management   Bengaluru - 560 109
                                Bangalore-560 062

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CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"DYNAMIC PRICING SAAS APPLICATION WITH STUDENTS DATA MANAGEMENT USING CLOUD COMPUTING"** is a bonafide work carried out by:

PRAJWAL P ACHARYA	**(1KG18CS081)**
RAGHAVENDRA S N	**(1KG18CS086)**
SRIHARI P N	**(1KG18CS109)**
VENKATESH V	**(1KG18CS118)**

in partial fulfilment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.

....
Signature of the Guide   **Signature of the HOD**   **Signature of the Principal**
                                                            Principal / Director
[Mrs. Nita Meshram]   [Dr. K Venkata Rao]   K. S. School of Engineering & Management
                                                            Bangalore-560 062

HOD
Dept. of Computer Science & Engineering
K.S. School of Engineering & Management
Bangalore-560 062.

K. S. School of Engineering and Management

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Department of Computer Science & Engineering

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"Converting attendance register image to excel file using OCR technique "** is a bonafide work carried out by:

Adithya U	**1KG17CS003**
Mayurjit Borkakoty	**1KG18CS053**
Mithun M	**1KG18CS057**
P C Chandana	**1KG18CS070**

in partial fulfilment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.

Signature of the Guide

[Mrs Amitha S]

Signature of the HOD

[Dr. K Venkata Rao]

HOD
Dept. of Computer Science & Engineering
K.S. School of Engineering & Management
Bangalore-560 062.

Signature of the Principal
Principal/Director
K S School of Engineering and Management
[Dr. K Rama Narasimha]
Bengaluru - 560 109

K. S. School of Engineering and Management

#15, Mallasandra, off. Kanakapura Road, Bengaluru - 560109

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CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"Language Pronunciation Translator For Better Understanding"** is a bonafide work carried out by:

Hamsaveena S	1KG18CS040
Karthik Gowda D	1KG18CS045
Rama Reddy B T	1KG18CS089
Shankar K S	1KG18CS099

in partial fulfilment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.

....
Signature of the Guide

[Jayashubha J]

....
Signature of the HOD

[Dr. K Venkata Rao]

— HOD
Dept. of Computer Science & Engineering
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....
Signature of the Principal
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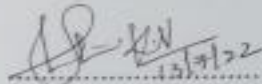## Department of Computer Science & Engineering

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Certified that the Project Work Phase-II (18CSP83) entitled **"Real Time Face Mask Detector using Machine Learning"** is a bonafide work carried out by:

PRERANA R	**1KG18CS083**
RUTHVIK R	**1KG18CS093**
SUHAS KR	**1KG18CS110**
SUHAS S	**1KG18CS111**

in partial fulfilment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.

Signature of the Guide

Mrs. K V Shalini

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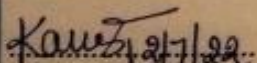## Department of Computer Science & Engineering
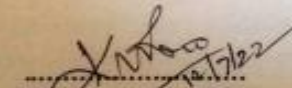
KSSEM

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"An Android Application For Tracking And Locating a Person From Group of People"** is a bonafide work carried out by:

Sai Shwetha R	**1KG18CS095**
Samartha C Shetty	**1KG18CS096**
Shruthi M S	**1KG18CS105**
Sneha Y T	**1KG18CS107**

in partial fulfilment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.

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Signature of the Principal

[Mrs. Kavitha K S]

[Dr. K H Gnkata Rao]
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[Dr. K Rama Narasimha]

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Certified that the Project Work Phase-II (18CSP83) entitled **"Seat Occupancy Detection using Machine Learning"** is a bonafide work carried out by:

Amith Upadhya.K.C	**1KG18CS007**
Ashish Kumar	**1KG18CS015**
Charith Bhat	**1KG18CS024**
Kalyan Venkatesh.B.S	**1KG18CS044**

in partial fulfilment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.
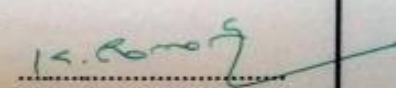
Signature of the Guide	**Signature of the H.O.D.**	**Signature of the Principal**
Mrs.Swathi Darla	Dr. K.Venkata Rao	Dr. K. Rama Narasimha
Assistant Professor	Professor, Head of the Dept.,	Principal/Director,
K.S.S.E.M., Bengaluru	K.S.S.E.M., Bengaluru	K.S.S.E.M., Bengaluru

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This is certified that the Project Work Phase-II (18CSP83) entitled **"Alert the driver by detecting the movement of vehicles ahead using Arduino"** is a bonafide work carried out by:

Sinchana KR	1KG18CS105
Vaishnavi V Vagdale	1KG17CS102
Ravikiran C Kuratti	1KG18CS092
Shrijesh Sah	1KG18CS103

in partial fulfillment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.

....
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[Mrs. Swathi Darla]

....
Signature of the HOD

[Dr. K Venkata Rao]
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....
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Certified that the Project Work Phase-II (18CSP83) entitled "**Pot Hole Detection with Sensor Robot** " is a bonafide work carried out by:

Rakshitha Katti	1KG18CS088
Ranjitha.V	1KG18CS090
Sowmya.Y.J	1KG18CS108
Veena.H	1KG18CS121

in partial fulfilment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.

Signature of the Guide   Signature of the HOD   Signature of the Principal

[R.S.Geethanjali]   [Dr. K Venkata Rao]   [Dr. K Rama Narasimha]

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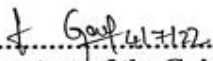
Department of Computer Science & Engineering
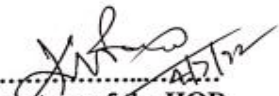

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"Securing Attendance Data Using Blockchain Technology"** is a bonafide work carried out by:

KOTAPATI SUSHMA CHOWDARY	**1KG18CS046**
NAGA VAISHNAVI P	**1KG18CS061**
NANDEESH S	**1KG18CS063**
O PRATHYUSHA	**1KG18CS069**

in partial fulfilment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.

Signature of the Guide

Mrs. Dakshayini .G.R

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Signature of the Principal
Dr. K. RAMA NARASIMHA
Dr. K Rama Narasimha
Principal/Director
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Certified that the Project Work Phase-II (18CSP83) entitled **"Blind Assistant using Machine learning"** is a bonafide work carried out by:

Kruthi M	**1KG18CS047**
Pooja C	**1KG18CS074**
Poorvika J	**1KG18CS079**
Pruthvi B	**1KG18CS084**

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Signature of the Guide	Signature of the HOD	Signature of the Principal
Mrs.Boyapati Sahithi	Dr. K Venkata Rao	Principal/Director
	HOD	Dr. K Rama Narasimha
	Dept. of Computer Science & Engineering	K S School of Engineering and Management
	K.S. School of Engineering & Management	Bengaluru - 560 109
	Bangalore-560 062.	

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CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"Design and Development of a Framework for building a Messaging Application (DMgram) with Alert System"** is a bonafide work carried out by:

Bhavitha D	**1KG18CS019**
Chandana M	**1KG18CS022**
Devapoojitaa	**1KG18CS029**
Gayana H G	**1KG18CS036**

in partial fulfilment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.

Signature of the Guide

[Mrs. Gargi N]

Signature of the HOD

[Dr. K Venkata Rao]
HOD
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Signature of the Principal
Principal/Director

[Dr. K Rama Narasimha]
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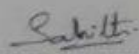## Department of Computer Science & Engineering
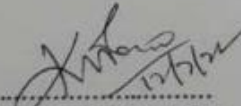

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"Identifying Food is Stale or Fresh using Internet of Things"** is a bonafide work carried out by:

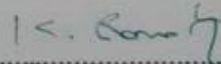|	
Madhumathi P	**1KG18CS050**
Varshitha M	**1KG18CS119**
Vedhavathi R	**1KG18CS120**
Yamuna P	**1KG18CS123**

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Mrs. Boyapati Sahithi	Dr. K Venkata Rao	Dr. K Rama Narasimha
Assistant Professor	Professor, Head of Department	Principal and Director
K.S.S.E.M, Bangalore	K.S.S.E.M, Bangalore	K.S.S.E.M, Bangalore

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Principal/Director
S School of Engineering and Manage
Bangaluru - 560 109

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Certified that the Project Work Phase-II (18CSP83) entitled **"Attendance Prediction Based on Weather Condition"** is a bonafide work carried out by:

Navya M H	1KG18CS065
Nisha R	1KG18CS068
Pooja J	1KG18CS075
Pooja P	1KG18CS076

in partial fulfilment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of April 2022 to June 2022. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-2 Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.

Signature of the Guide

[Mrs. Sushmitha Suresh]

Signature of the HOD

[Dr. K Venkata Rao]

HOD
Dept. of Computer Science & Engineering
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Bangalore-560 062

Signature of the Principal

Dr. K. RAMA NARASIMHA
[Dr. K. Rama Narasimha]
K S School of Engineering and Management
Bengaluru - 560 109

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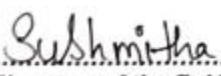## Department of Computer Science & Engineering

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Certified that the Project Work Phase-II (18CSP83) entitled **"Predicting Time management for Exam preparation using Machine Learning"** is a bonafide work carried out by:

Rashmi. K	**1KG18CS091**
Sneha. S	**1KG18CS106**
Surabhi. BN	**1KG18CS112**
Sushil Singh	**1KG18CS113**

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[Mrs. Sushmitha Suresh]   [Dr. K Venkata Rao]   [Dr. K Rama Narasimha]

Dr. K. RAMA NARASIMHA
Principal/Director

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Certified that the Project Work Phase-II (17CSP85) entitled **"Automated Toll Management With Smart Light System"** is a bonafide work carried out by:

Sharath B S	**1KG16CS094**
Suyog L	**1KG16CS110**
Bharadwaj B S	**1KG17CS012**
Bhargav Swamy P M	**1KG17CS015**

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Chandana V.S. 25/6/22

Signature of the Guide

[Mrs. Chandana V S]

Signature of the HOD

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