VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi - 590018

A Project Work Phase-2 (18CSP83)

Report on

"EXCESS FOOD MANAGEMENT AND DONATION APP"

Project Report submitted in partial fulfilment of the requirement for the award of the degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Samyuktha Madhav	1KG20CS098
Sidapara Nancy Arvindkumar	1KG20CS101
Vibha M	1KG20CS118
Yashitha T	1KG20CS123

Under the guidance of

Mrs. Jayashubha J

Associate Professor

Department of Computer Science & Engineering

KSSEM, Bengaluru-56010

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2023 - 2024

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CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"EXCESS FOOD MANAGEMENT AND DONATION APP"** is a bonafide work carried out by:

Samyuktha Madhav	**1KG20CS098**
Sidapara Nancy Arvindkumar	**1KG20CS101**
Vibha M	**1KG20CS118**
Yashitha T	**1KG20CS123**

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 February 2024 to May 2024. 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. Jayashubha J]	[Dr. K Venkata Rao]	[Dr. K Rama Narasimha]
Associate Professor, CSE	Professor & Head, CSE	Principal
KSSEM	KSSEM	KSSEM

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Visvesvaraya Technological University

Jnana Sangama, Belagavi - 590018

A Project Work Phase-2 (18CSP83)

Report on

"AUTOMATIC VISUAL SURVEILLANCE SYSTEM TO DETECT

DROWNING INCIDENTS IN SWIMMING POOLS"

Project Phase 2 Report submitted in partial fulfilment of the requirement for the award of the degree of
BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Gautham Narkodu	**1KG20CS039**
Eshwar Sai Chandra	**1KG20CS036**
Divya Lakshmi J.H.	**1KG20CS032**
Chinmay N.M.	**1KG20CS021**

Under the guidance of
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Associate Professor

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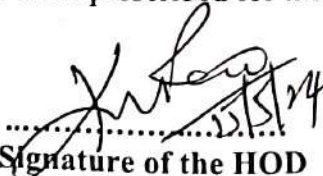## Department of Computer Science & Engineering

CERTIFICATE

Certified that the Project Work Phase-2 (18CSP83) entitled " **AUTOMATIC VISUAL SURVEILLANCE SYSTEM TO DETECT DROWNING INCIDENTS IN SWIMMING POOLS**" is a bona fide work carried out by:

Gautham Narkodu	1KG20CS039
Eshwar Sai Chandra	1KG20CS036
Divya Lakshmi J.H.	1KG20CS032
Chinmay N.M.	1KG20CS021

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 September 2023 to January 2024. It is certified that all the corrections and suggestions indicated by **Mrs. Supriya Suresh**, Assistant Professor, **Mrs. Nita Meshram**, Associate Professor, **Mrs. Meena G**, Associate Professor, **Mrs.Nagaveni Nimbal**, Associate Professor, Department of Computer Science & Engineering 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.
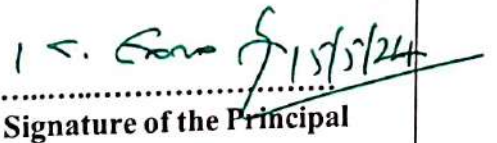
Signature of the Guide	Signature of the HOD	Signature of the Principal
Mrs.Nita Meshram	Dr. K Venkata Rao	Dr. K Rama Narasimha
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Visvesvaraya Technological University
Jnana Sangama, Belagavi - 590018

A Project Work Phase - 2 (18CSP83)

Report on

"RO Wastewater Management-Smart Drip Irrigation and Real-time Water Quality Monitoring using IoT"

Project Report submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Anurag Appaji Patil	1KG20CS005
Aravind M	1KG20CS006
C P Omkar Rawath	1KG20CS015
Charan M J	1KG20CS018

Under the Guidance of
Mrs. Sougandhika Narayan
Assistant Professor,
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CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"RO Wastewater Management-Smart Drip Irrigation and Real-time Water Quality Monitoring using IoT"** is a bonafide work carried out by:

Anurag Appaji Patil	-1KG20CS005
Aravind M	-1KG20CS006
C P Omkar Rawath	-1KG20CS015
Charan M J	-1KG20CS018

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 February 2024 to May 2024. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-II 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 13/5/24

[Mrs. Sougandhika Narayan]

Assistant Professor, CSE

K.S.S.E.M, Bengaluru

Signature of the HOD

[Dr. K Venkata Rao]

Professor & Head, CSE

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Signature of the Principal

[Dr. K Rama Narasimha]

Principal/ Director

K.S.S.E.M, Bengaluru

Dr. K. RAMA NARASIMHA
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Visvesvaraya Technological University

Jnana Sangama, Belagavi - 590018

PROJECT WORK PHASE- 2
REPORT ON

"DEMENTIA PREDICTOR"

Project Phase 2 Report submitted in partial fulfillment of the requirement for the award of the degree of
BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

MEGHANA M	**1KG20CS063**
VAISHNAVI N BHAT	**1KG20CS113**

Under the guidance of

Mrs. Supriya Suresh
Assistant Professor
Department of Computer Science & Engineering
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Department of Computer Science & Engineering

CERTIFICATE

This is to certify that the Project Work Phase-2 (18CSP77) entitled "Dementia Predictor"

is a bonafide work carried out by:

MEGHANA M	**1KG20CS063**
VAISHNAVI N BHAT	**1KG20CS113**

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 February 2024 to May 2024. 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. Supriya Suresh	Dr. K Venkata Rao	Dr. K Rama Narasimha
Assistant Professor	Professor & Head, CSE	Principal / Director
K.S.S.E.M., Bengaluru	K.S.S.E.M., Bengaluru	K.S.S.E.M., Bengaluru

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi - 590018

A Project Work Phase-2 (18CSP83)

Report on

"ASTHMA PREDICTION AND MONITORING"

Project Report submitted in partial fulfilment of the requirement for the award of the degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

RAKSHITHA A	1KG20CS088
NISCHITHA M	1KG20CS074
MONISHA M	1KG20CS067
NISHA M	1KG20CS075

Under the guidance of

Mrs. KAVITHA K S

ASSISTANT PROFESSOR

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CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"Asthma Prediction and Monitoring"** is a bonafide work carried out by:

RAKSHITHA A	1KG20CS088
NISCHITHA M	1KG20CS074
MONISHA M	1KG20CS067
NISHA M	1KG20CS075

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 February 2024 to May 2024. 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
Assistant Professor, CSE	Head of Department, CSE	Principal/Director,
K.S.S.E.M., Bengaluru	K.S.S.E.M., Bengaluru	K.S.S.E.M., Bengaluru

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PROJECT WORK PHASE-2 (18CSP83)
REPORT ON

"PREDICTION OF WINE QUALITY USING MACHINE LEARNING"
Project Phase 2 Report submitted in partial fulfilment of the requirement for the award of the degree of

BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE AND ENGINEERING

Submitted by

Ananya P	1KG20CS003
Ashritha M	1KG20CS007
Bhavana H S	1KG20CS010
Chethana B M	1KG20CS020

Under the guidance of
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Certified that the **Project Work Phase-2 (18CSP83)** entitled **"PREDICTION OF WINE QUALITY USING MACHINE LEARNING"** is a bonafide work carried out by:

Ananya P	**1KG20CS003**
Ashritha M	**1KG20CS007**
Bhavana H S	**1KG20CS010**
Chethana B M	**1KG20CS020**

in partial fulfilment for **VIII semester of Bachelor of Engineering**, Project Work in the branch of **Computer Science and Engineering** prescribed by **Visvesvaraya Technological University, Belagavi** during the period of **February 2024 to May 2024**. 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
Ms. Puneetha M R	**Dr. K Venkata Rao**	**Dr. K Rama Narasimha**
Assistant Professor, CSE	**Professor & Head, CSE**	**Principal/Director**
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Jnana Sangama, Belagavi - 590018

A Project Work Phase - 2 (18CSP83)

Report on

"AUTOMATIC DETECTION AND CLASSIFICATION OF DIABETIC EYE DISORDERS"

Project Report submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Deeksha B	**1KG20CS024**
Charishma C	**1KG20CS019**
Jyothsna B	**1KG20CS014**
Bhoomika T	**1KG20CS012**

Under the Guidance of
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Certified that the Project Work Phase-II (18CSP83) entitled **"Automatic detection and classification of diabetic eye disorders"** is a bonafide work carried

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Deeksha B	**1KG20CS024**
Charishma C	**1KG20CS019**
Jyothsna B	**1KG20CS014**
Bhoomika T	**1KG20CS012**

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 February 2024 to May 2024. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-II 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. Nita Meshram]
Associate Professor, CSE
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....
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[Dr. K Venkata Rao]
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi - 590018

A Project Work Phase-2 (18CSP83)

Report on

"EFFICIENT RISK PREDICTION IN PREGNANCY USING BASIC VITALS"

Project Report submitted in partial fulfilment of the requirement for the award of the degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

NANDINI M N	**1KG20CS070**
NITHYA K	**1KG20CS079**
RAKSHITHA H C	**1KG20CS089**

Under the guidance of

Mrs. MEENA G

ASSISTANT PROFESSOR

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Certified that the Project Work Phase-II (18CSP83) entitled **"Efficient Risk Prediction in Pregnancy Using Basic Vitals"** is a bonafide work carried out by:

NANDINI M N	**1KG20CS070**
NITHYA K	**1KG20CS079**
RAKSHITHA H C	**1KG20CS089**

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 February 2024 to May 2024. 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. Meena G	Dr. K Venkata Rao	Dr. K Rama Narasimha
Assistant Professor, CSE	Head of Department, CSE	Principal/Director,
K.S.S.E.M., Bengaluru	K.S.S.E.M., Bengaluru	K.S.S.E.M., Bengaluru

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Visvesvaraya Technological University
Jnana Sangama, Belagavi - 590018

A Project Work Phase-2 (18CSP83)

Report on

"Sepsis Prediction"

Project Report submitted in partial fulfilment of the requirement for the

award of the degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Nikhil KH	**1KG20CS073**
Prithvi Raj	**1KG20CS085**
Rahul BM	**1KG20CS086**
Sagar Naidu	**1KG20CS095**

Under the guidance of
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Associate Professor
Department of Computer Science & Engineering
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2023 - 2024

K. S. School of Engineering and Management

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Department of Computer Science & Engineering

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Certified that the Project Work Phase-2 (18CSP83) entitled " **SEPSIS PREDICTION** " is a bonafide work carried out by: Nikhil KH (1KG20CS073), Prithvi Raj (1KG20CS085) , Rahul BM (1KG20CS086) , Sagar Naidu N (1KG20CS095) in partial fulfilment for VII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of February 2024 to May 2024. 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. Nagaveni B Nimbal
Associate Professor
K.S.S.E.M, Bengaluru

....
Signature of the HOD
Dr. K Venkata Rao
Professor, Head of the Dept.,
K.S.S.E.M, Bengaluru

....
Signature of the Principal
Dr. K Rama Narasimha
Principal/Director,
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY "Janana Sangama", Belagavi-590018

Project Work Phase-2 (18CSP77)

Report on

"EV SMART CHARGING STATION"

Project Phase 2 Report submitted in partial fulfilment of the requirement for the award of the degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Shruthi M	**1KG20CS100**
Vadiraj R Nadig	**1KG20CS112**
Veluru Bhanuprasad	**1KG20CS116**
Vinay A	**1KG20CS121**

Under the guidance of

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Assistant Professor

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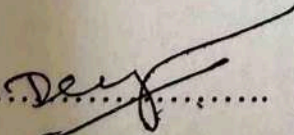
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CERTIFICATE

Certified that the Project Work Phase-2 (18CSP77) entitled **"EV SMART CHARGING STATION"** is a bonafide work carried out by:
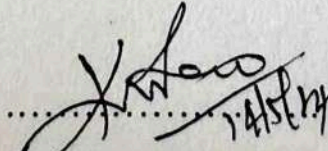
Shruthi M	1KG20CS100
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in partial fulfilment for VIII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by Visvesvaraya Technological University, Belagavi during the period of January 2024 to May 2024. It is certified 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.N Deepashree	Dr.K VenkataRao	Dr.K Rama Narasimha
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY
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Jnana Sangama, Belagavi - 590018

A Project Work Phase-2 (18CSP83)

Report on

"BLUETOOTH ENABLED FINGERPRINT LOCK"

Project Phase 2 Report submitted in partial fulfilment of the requirement for the award of the degree of

BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE AND ENGINEERING

Submitted by

NAVEEN V	1KG20CS072
DINESH S	1KG20CS094
SIDDHARTH GANESAN	1KG20CS102
VENKATESH DJ	1KG20CS117

Under the Guidance of

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

Certified that the Project Work Phase-2 (18CSP83) entitled " **BLUETOOTH ENABLED FINGERPRINT LOCK**" is a bonafide work carried out by: Naveen V (1KG20CS072) , Dinesh S (1KG20CS094), Siddharth Ganesan (1KG20CS102), Venkatesh DJ(1KG20CS117) 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 September 2023 to January 2024. 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.Nagaveni B Nimbal]
Associacte Professor,CSE
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Signature of the HOD
[Dr. K Venkata Rao]
Professor & Head ,CSE
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Signature of the Principal
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DR. K RAMA NARASIMHA
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi - **590018**

A Project Work Phase-2 (18CSP83)

Report on

"SMART STICK FOR BLIND PEOPLE"

Project Report submitted in partial fulfilment of the requirement for the award of the degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

DHIKSHITH T	1KG20CS029
GAUTHAM BJ	1KG20CS038
D TEJESH	1KG20CS022
J SASIDHAR	1KG20CS048

Under the guidance of

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Assistant Professor
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Department of Computer Science & Engineering

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"SMART STICK FOR BLIND PEOPLE"** is a bonafide work carried out by:

DHIKSHITH	T	1KG20CS029
GAUTHAM BJ		1KG20CS038
D TEJESH		1KG20CS022
J SASIDHAR		1KG20CS048

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 February 2024 to May 2024. 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 Belji T]
Assistant professor,CSE,
KSSEM, Bengaluru

Signature of the HOD

[Dr. K Venkata Rao]
Professor & Head, CSE,
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HOD
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Signature of the Principal

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

Visvesvaraya Technological University

Jnana Sangama, Belagavi - 590018

AProject Work Phase-2 (18CSP83)

Report on

"Energy Harvesting While Walking"

Project Report submitted in partial fulfilment of the requirement for the w4award
of the degree of
BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Suchithra M B	**-1KG20CS105**
V Yashwanth Naidu	**-1KG20CS111**
Vikrama C	**-1KG20CS120**
Vishwanath Vivek	**-1KG20CS122**

Underthe guidance of

Mrs. SUSHMITHA SURESH

Assistant Professor
DepartmentofComputerScience& Engineering
KSSEM,Bengaluru-560109

K. S. School of Engineering and Management
DEPARTMENT OFCOMPUTER SCIENCE & ENGINEERING
#15,Mallasandra,off. Kanakapura Road, Bengaluru– 560109
2023 – 2024

CERTIFICATE
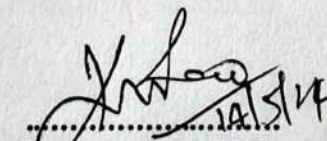
Certified that the Project Work Phase-2 (18CSP83) entitled **"Energy Harvesting While Walking"**
is a bonafide work carried out by:

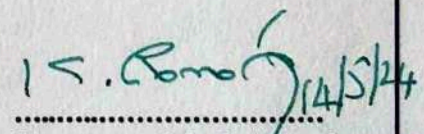|	
SUCHITHRA M B	**1KG20CS105**
V YASHWANTH NAIDU	**1KG20CS111**
VIKRAMA C	**1KG20CS120**
VISHWANATH VIVEK	**1KG20CS122**

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 .
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.

Sushmitha

Signature of the Guide

Signature of the HOD

15. Ramo 14/5/24

Signature of the Principal

[Mrs. Sushmitha Suresh]

[Dr. K Venkata Rao]

[Dr. K Rama Narasimha]

Visvesvaraya Technological University

Jnana Sangama, Belagavi - 590018

A Project Work Phase-II (18CSP83)

Report on

"Grama Vikas"

Project Report submitted in partial fulfilment of the requirement for the

award of the degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Deepak.C. D   **1KG19CS023**

Under the guidance of
Mrs. Belji T
Asst. Prof, CSE,KSSEM
Department of Computer Science & Engineering
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2023 - 2024

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Department of Computer Science & Engineering

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"Grama Vikas"** is a bonafide work carried out by:

Deepak.C. D   **1KG19CS023**

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 Feburary 2024 to may 2024. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-II 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. Belji T]   [Dr. K Venkata Rao]   [Dr. K Rama Narasimha]

HOD
Department of Computer Science Engineering
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Bangalore-560109

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

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi - 590018

A Project Work Phase-2 (18CSP83)

Report on

"INDIAN CURRENCY RECOGNITION SYSTEM FOR VISUALLY IMPAIRED PEOPLE USING MACHINE LEARNING"

Project Report submitted in partial fulfilment of the requirement for the award of the degree of
BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Bharani B	**1KG20CS009**
Chandana B N	**1KG20CS016**
Divyalakshmi K	**1KG20CS033**
Kalpana C	**1KG20CS053**

Under the guidance of

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Department of Computer Science & Engineering

KSSEM

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"INDIAN CURRENCY RECOGNITION SYSTEM FOR VISUALLY IMPAIRED PEOPLE USING MACHINE LEARNING"**, is a bonafide

work carried out by:

Bharani B	**1KG20CS009**
Chandana B N	**1KG20CS016**
Divyalakshmi K	**1KG20CS033**
Kalpana C	**1KG20CS053**

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

February 2024 to May 2024. 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.VenkataRao   Dr.K.VenkataRao   Dr.K.Rama Narasimha
Professor&Head,CSE   Professor&Head,CSE   Principal/Director
K.S.S.E.M.,Bengaluru.   K.S.S.E.M.,Bengaluru.   K.S.S.E.M.,Bengaluru.
HOD   HOD   Dr. K RAMA NARASIMHA
Department of Computer Science Engineering   Department of Computer Science Engineering   Principal/Director
K.S School of Engineering & Management   K.S School of Engineering & Management   K S School of Engineering and Management
Bangalore-560109   Bangalore-560109   Bengaluru - 560 109

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi - 590018

A Project Work Phase-2 (18CSP83)

Report on

"J.A.R.V.I.S"

Project Report submitted in partial fulfilment of the requirement for the award of the degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Devanand M	**1KG20CS026**
Disha R	**1KG20CS031**
Druthi N	**1KG20CS034**
Inchara H R	**1KG20CS042**

Under the guidance of

Mrs. MEENA G

ASSISTANT PROFESSOR

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2023 - 2024

K. S. School of Engineering and Management

#15, Mallasandra, off. Kanakapura Road, Bengaluru - 560109
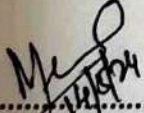
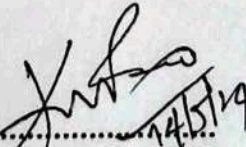## Department of Computer Science & Engineering

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"J.A.R.V.I.S"** is a bonafide work carried out by:

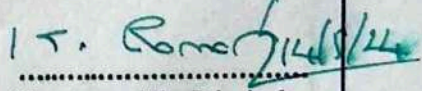|	
Devanand M	**1KG20CS026**
Disha R	**1KG20CS031**
Druthi N	**1KG20CS034**
Inchara H R	**1KG20CS042**

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 February 2024 to May 2024. 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. Meena G

Dr. K Venkata Rao

Dr. K Rama Narasimha

Assistant Professor,CSE

Head of Department,CSE

Dr. K. RAMA NARASIMHA

K.S.S.E.M., Bengaluru

K.S.S.E.M., Bengaluru

Principal/Director

Principal/Director

K S School of Engineering and Management

Bengaluru - 560 109

HOD
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Bangalore-560109

Visvesvaraya Technological University

Jnana Sangama, Belagavi - 590018

A Project Work Phase-II (18CSP83)

Report on

"Finding the missing person using Artificial Intelligence(AI)"

Project Report submitted in partial fulfilment of the requirement for the

award of the degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Gagan.R	1KG20CS037
Monali.B.Pipaliya	1KG20CS066
Pathipati Harshitha	1KG20CS080

Under the guidance of
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Assistant Professor
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Department of Computer Science & Engineering

KSSEM

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"Finding the missing person using Artificial Intelligence(AI)"** is a bonafide work carried out by:

Gagan.R	**1KG20CS037**
Monali.B.Pipaliya	**1KG20CS066**
Pathipati Harshitha	**1KG20CS080**

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 March 2024 to May 2024. 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. Prasanna N]

....
Signature of the HOD

[Dr. K Venkata Rao]

....
Signature of the Principal

[Dr. K Rama Narasimha]

HOD
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi - 590018

A Project Work Phase-2 (18CSP83)

Report on

"VITAMIN D AND B12 DEFICIENCY DETECTION USING MACHINE LEARNING TECHNIQUES"

Project Report submitted in partial fulfilment of the requirement for the award of the degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Jeevan Reddy R	1KG20CS050
Nandan Kumar N	1KG20CS069
Prerana Kumari	1KG20CS084
Vijayalakshmi D	1KG20CS119

Under the guidance of

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Department of Computer Science & Engineering

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"VITAMIN D AND B12 DEFICIENCY DETECTION USING MACHINE LEARNING TECHNIQUES"** is a bonafide work carried out by:

Jeevan Reddy R	1KG20CS050
Nandan Kumar N	1KG20CS069
Prerana Kumari	1KG20CS084
Vijayalakshmi D	1KG20CS119

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 February 2024 to May 2024. 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|5|2024.....   ....11|5|4   1 5. ....11|5|24

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

[Mrs. Dakshayini G R]   [Dr. K Venkata Rao]   [Dr. K Rama Narasimha]
Assistant Professor, CSE   Professor & Head, CSE   Principal
KSSEM   KSSEM   KSSEM

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi - 590018

A Project Work Phase-2 (18CSP83)

Report on

"LAND REGISTRY USING BLOCKCHAIN"

Project Report submitted in partial fulfilment of the requirement for the award of the degree of
BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Ranjithaa MA – 1KG20CS092

Suchitha R   – 1KG20CS104

Thanushree R – 1KG20CS109

Under the guidance of

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Assistant Professor
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2023 - 2024

K. S. School of Engineering and Management

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

Department of Computer Science & Engineering

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"LAND REGISTRY USING BLOCKCHAIN"** is a bonafide work carried out by:

Ranjithaa MA – **1KG20CS092**
Suchitha R – **1KG20CS104**
Thanushree R – **1KG20CS109**

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 February 2024 to May 2024. 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.

Chandana V.S. 11/5/24

Signature of the Guide

[Mrs.Chandana VS]

11/5/24

Signature of the HOD

[Dr. K Venkata Rao]

1 .... Rama 11/5/24

Signature of the Principal

[Dr. K Rama Narasimha]

HOD
Department of Computer Science Engineering
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Principal/Director
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi - 590018

A Project Work Phase-2 (17CSP85)

Report on

"IOT BASED SMART CRADLE SYSTEM"

Project Report submitted in partial fulfilment of the requirement for the award of the degree of
BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

SANJANA URS.D   1KG17CS072

Under the guidance of

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2023 - 2024

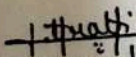# K. S. School of Engineering and Management

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

Department of Computer Science & Engineering

CERTIFICATE

Certified that the Project Work Phase-II (17CSP85) entitled **"IOT Based Smart Cradle System "** is a bonafide work carried out by: SANJANA URS .D (1KG17CS072) 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 February 2024 to May 2024. 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.
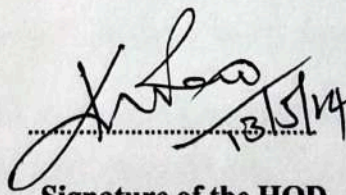
Signature of the Guide	**Signature of the HOD**	**Signature of the Principal**
[Ms. Nethravathi K G]	[Dr. K Venkata Rao]	[Dr. K Rama Narasimha]
Assistant Professor, CSE	Professor & Head, CSE	Principal
KSSEM	KSSEM	KSSEM

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi - 590018

A Project Work Phase-2 (18CSP83)

Report on

"MUSIC GENERATION USING DEEP LEARNING"

Project Report submitted in partial fulfilment of the requirement for the award of the degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Rakshitha R	**1KG20CS090**
Sahana H S	**1KG20CS096**
Sriraksha	**1KG20CS103**
Vanditha	**1KG20CS114**

Under the guidance of

Mrs. Amitha S

Associate Professor

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Department of Computer Science & Engineering

<u>CERTIFICATE</u>

Certified that the Project Work Phase-II (18CSP83) entitled **"MUSIC GENERATION USING DEEP LEARNING"** is a bonafide work carried out by:

Rakshitha R	**1KG20CS090**
Sahana H S	**1KG20CS096**
Sriraksha	**1KG20CS103**
Vanditha	**1KG20CS114**

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 February 2024 to May 2024. 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]
Associate Professor, CSE
KSSEM

.......................13/5/24
Signature of the HOD

[Dr. K Venkata Rao]
Professor & Head, CSE
KSSEM

....................13/5/24
Signature of the Principal

[Dr. K Rama Narasimha]
Principal
KSSEM

Visvesvaraya Technological University

Jnana Sangama, Belagavi - 590018

A Project Work Phase-2 (18CSP83)

Report on

"WASTE SEGREGATION USING DEEP LEARNING AND IOT"

Project Report submitted in partial fulfilment of the requirement for the award of the degree of
BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Bhushan P	**1KG20CS013**
Kumara Swamy N	**1KG20CS057**
Lavanya M	**1KG20CS058**
Likhitha L Mahesh	**1KG20CS059**

Under the guidance of

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Associate Professor
Department of Computer Science & Engineering
KSSEM, Bengaluru-560109

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2023 – 2024

K. S. School of Engineering and Management

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

Department of Computer Science & Engineering

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"WASTE SEGREGATION USING DEEP LEARNING AND IOT"** is a bonafide work carried out by:

Bhushan P	**1KG20CS013**
Kumara Swamy N	**1KG20CS057**
Lavanya M	**1KG20CS058**
Likhitha L Mahesh	**1KG20CS059**

In partial fulfilment for VII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of September 2023 to January 2024. 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 requirement in report of project work prescribed for the Bachelor of Engineering degree.

....
Signature of the Guide

[Mrs. Jayashubha J]

Associate Professor, CSE

KSSEM

....
Signature of the HOD

[Dr. K Venkata Rao]

Professor & Head, CSE

KSSEM

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

....13/5/24
Signature of the Principal

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

Visvesvaraya Technological University

Jnana Sangama, Belagavi - 590018

A Project Work Phase-2 (18CSP83)

Report on

"IOT BASED ANIMAL DETECTION SYSTEM"

Project Report submitted in partial fulfilment of the requirement for the

award of the degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

J Bindu Priya	**1KG20CS046**
Anjali R Shastry	**1KG21CS400**
Dakshayini D S	**1KG21CS401**
Pallavi E	**1KG21CS402**

Under the guidance of
Dr. K Venkata Rao
Professor & Head, CSE
Department of Computer Science & Engineering
KSSEM, Bengaluru-560109

KSSEM

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

K. S. School of Engineering and Management

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

2023 - 2024

CERTIFICATE

Certified that the Project Work Phase-2 (18CSP83) entitled "IOT BASED ANIMAL DETECTION

SYSTEM " is a bonafide work carried out by:

J Bindu Priya	**1KG20CS046**
Anjali R Shastry	**1KG21CS400**
Dakshayini D S	**1KG21CS401**
Pallavi E	**1KG21CS402**

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

February 2024 to May 2024. 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.Venkata Rao	Dr.K.Venkata Rao	Dr. K Rama Narasimha
Professor & Head, CSE	Professor & Head, CSE	Principal / Director
K.S.S.E.M., Bengaluru.	K.S.S.E.M., Bengaluru.	K.S.S.E.M., Bengaluru.
	HOD	Dr. K. RAMA NARASIMHA
	Department of Computer Science Engineering	Principal/Director
	K.S School of Engineering & Management	K S School of Engineering and Management
	Bangalore-560109	Bengaluru - 560 109

Visvesvaraya Technological University

Jnana Sangama, Belagavi - 590018

PROJECT WORK PHASE- 2
REPORT ON

"IMAGE FORGERY DETECTION USING ADAPTIVE OVERSERGMENTATION AND KEY POINT FEATURE MATCHING"

Project Phase 2 Report submitted in partial fulfillment of the requirement for the award of the degree of
BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

JATIN SINGH	**1KG20CS049**
HARSH	**1KG20CS043**
MD. ZAYED	**1KG20CS065**

Under the guidance of

Mrs. N Deepashree

Assistant Professor
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2023 – 2024

K. S. School of Engineering and Management

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

Department of Computer Science & Engineering

CERTIFICATE

This is to certify that the Project Work Phase-2 (18CSP77) entitled "IMAGE FORGERY DETECTION USING ADAPTIVE OVERSERGMENTATION AND KEY POINT FEATURE MATCHING" is a bonafide work carried out by:

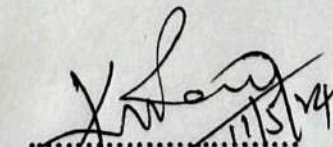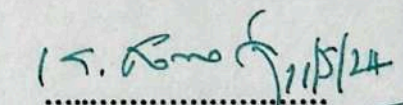|	
JATIN SINGH	**1KG20CS049**
HARSH	**1KG20CS043**
ZAYED	**1KG20CS065**

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 February 2024 to May 2024. 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. N Deepashree
Assistant Professor
K.S.S.E.M., Bengaluru

Dr. K Venkata Rao
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Visvesvaraya Technological University

Jnana Sangama, Belagavi - 590018

A Project Work Phase-2 (18CSP83)

Report on

"LIFE EXPECTANCY POST THORACIC SURGERY USING MACHINE LEARNING"

Project Phase Report submitted in partial fulfilment of the requirement for the award of the degree of
BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Nandini V	- 1KG20CS071
Nishmitha R	- 1KG20CS076
Nithya A	- 1KG20CS078
Roshan Kumar L	- 1KG20CS093

Under the guidance of

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2023 – 2024

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Department of Computer Science & Engineering

CERTIFICATE

Certified that the Project Work Phase-I1 (18CSP83) entitled **"LIFE EXPECTANCY POST THORACIC SURGERY USING MACHINE LEARNING"** is a bonafide work carried out by:

Nandini V	1KG20CS071
Nishmitha R	1KG20CS076
Nithya A	1KG20CS078
Roshan Kumar L	1KG20CS093

in partial fulfilment for VIII semester B.E., Project Work in the branch of ComputerScience and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during theperiod of September 2023 to January 2024. It is certified that all the corrections and suggestions indicatedfor internal assessment have been incorporated. The Project Work Phase-II Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.

C.Chandana V.S. 13/5/24

Signature of the Guide

[Mrs. Chandana V S]

13/5/24

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[Dr. K Rama Narasimha]

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

Visvesvaraya Technological University

Jnana Sangama, Belagavi - 590018

A Project Work Phase-2 (18CSP83)

Report on

"INDISIGHT"

Project Phase Report submitted in partial fulfilment of the requirement for the award of the degree of
BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Hemanth M	- 1KG20CS045
J R Chandan	- 1KG20CS047
Preetham K	- 1KG20CS052
Kiran C D	- 1KG20CS056

Under the guidance of

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Assistant Prof, CSE,

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CERTIFICATE

Certified that the Project Work Phase-I1 (18CSP83) entitled **"INDISIGHT"** is a bonafide work carried out by:

Hemanth M	**1KG20CS045**
J R Chandan	**1KG20CS047**
Preetham K	**1KG20CS052**
Kiran C D	**1KG20CS056**

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 February 2024 to May 2024. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-II 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. Belji T]

....
Signature of the HOD

[Dr. K Venkata Rao]

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[Dr. K Rama Narasimha]

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Jnana Sangama, Belagavi - 590018

PROJECT WORK PHASE- 2
REPORT ON

"STRESS AND MENTAL HEALTH DETECTION USING MACHINE LEARNING"

Project Phase 2 Report submitted in partial fulfillment of the requirement for the award of the degree of
BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

M YASASWANI	**1KG20CS062**
T VYSHNAVI	**1KG20CS110**
V LAXMI PRIYA	**1KG20CS115**
YASHWANTH B	**1KG20CS124**

Under the guidance of

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Assistant Professor
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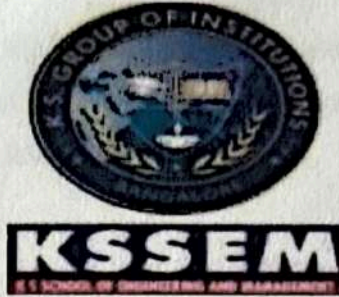#15, Mallasandra, off. Kanakapura Road, Bengaluru – 560109
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CERTIFICATE

This is to certify that the Project Work Phase-2 (18CSP77) entitled "Stress and Mental Health Detection using Machine Learning" is a bonafide work carried out by:

M YASASWANI	1KG20CS062
T VYSHNAVI	1KG20CS110
V LAXMI PRIYA	1KG20CS115
YASHWANTH B	1KG20CS124

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 February 2024 to May 2024. 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

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Signature of the Principal

Mrs. Sushmitha Suresh
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"Janana Sangama", Belagavi-590018

Project Work Phase-2 (18CSP83)
Report on
"CRIME RATE PREDICTION USING MACHINE LEARNING"

Project Phase 2 Report submitted in partial fulfilment of the requirement for the award of the degree of

BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE AND ENGINEERING

Submitted by

Mohammed Yaseen	**1KG20CS064**
Nagendra B N	**1KG20CS068**
Nitesh A	**1KG20CS077**
Prajwal R	**1KG20CS082**

Under the guidance of

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2023 – 2024

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Certified that the Project Work Phase-2 (18CSP83) entitled "CRIME RATE PREDICTION USING

MACHINE LEARNING" is a bonafide work carried out by:

Mohammed Yaseen	**1KG20CS064**
Nagendra B N	**1KG20CS068**
Nitesh A	**1KG20CS077**
Prajwal R	**1KG20CS082**

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

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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.Bindu K P	Dr.K Venkata Rao	Dr.K Rama Narasimha
Assistant Professor, CSE	Professor & Head, CSE	Principal / Director
K.S.S.E.M., Bengaluru.	K.S.S.E.M., Bengaluru.	K.S.S.E.M., Bengaluru.

Visvesvaraya Technological University

Jnana Sangama, Belagavi - 590018

A Project Work Phase-2 (18CSP83)
Report on

"SmartCrop: Agriculture Crop Recommendation based on future demand"

Project Report submitted in partial fulfilment of the requirement for the

award of the degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

HARSHAL V PAI	**1KG20CS044**
JOSHNA MJ	**1KG20CS051**
KAVYA S	**1KG20CS055**
M JESWANTH	**1KG20CS060**

Under the guidance of
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2023 - 2024

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Department of Computer Science & Engineering

CERTIFICATE

Certified that the Project Work Phase-2 (18CSP83) entitled **"SMARTCROP:AGRICULTURE CROP RECOMMENDATION BASED ON FUTURE DEMAND"** is a bonafide work carried out by:

HARSHAL V PAI	**1KG20CS044**
JOSHNA MJ	**1KG20CS051**
KAVYA S	**1KG20CS055**
M JESWANTH	**1KG20CS060**

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 February 2024 to May 2024. 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

Assoc. Professor, CSE

K.S.S.E.M., Bengaluru

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Signature of the HOD

Dr. K Venkata Rao

Professor and Head, CSE

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Principal/Director

K.S.S.E.M., Bengaluru

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

Visvesvaraya Technological University

Jnana Sangama, Belagavi - 590018

A Project Work Phase-2 (18CSP83)

Report on

"Forensic Face Sketch Construction and Recognition"

Project Report submitted in partial fulfilment of the requirement for theaward of the degree of
BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Akhilesh K A - 1KG20CS002

Preetham N N - 1KG20CS083

Sujay C L   - 1KG20CS106

Sumanth G G   - 1KG20CS107

Under the guidance of

Mrs. Kavitha K S

Assistant Professor
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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
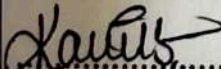#15,Mallasandra, off. Kanakapura Road, Bengaluru – 560109
2023 – 2024

K. S. School of Engineering and Management

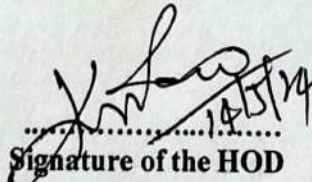#15, Mallasandra, off. Kanakapura Road, Bengaluru - 560109

Department of Computer Science & Engineering
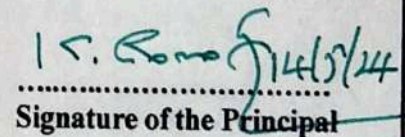
CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"Forensic Face Sketch Construction and Recognition"** is a bonafide work carried out by: Akhilesh K A (1KG20CS002), Preetham N N (1KG20CS083), Sujay C L (1KG20CS106), Sumanth G G (1KG20CS107) in partial fulfilment for VII semester B.E., Project Work in the branch of Computer Science and Engineering prescribed by **Visvesvaraya Technological University, Belagavi** during the period of September 2023 to May 2024. 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]

<div align="center">

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Principal/Director
K S School of Engineering and Management
Bengaluru - 560 109

</div>

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi - 590018

A Project Work Phase-2 (18CSP83)

Report on

"DEEP LEARNING TECHNIQUES FOR THYROID NODULE DETECTION"

Project Report submitted in partial fulfilment of the requirement for the award of the degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Deekshith G	**1KG20CS025**
Devi Shankar S	**1KG20CS027**
Dhanush S P	**1KG20CS028**
Ranjith Kumar G D	**1KG20CS091**

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2023 - 2024

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Department of Computer Science & Engineering

CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"Deep Learning Techniques For Thyroid Nodule Detection"** is a bonafide work carried out by:

Deekshith G	**1KG20CS025**
Devi Shankar S	**1KG20CS027**
Dhanush S P	**1KG20CS028**
Ranjith Kumar G D	**1KG20CS091**

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 February 2024 to May 2024. 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 14/5/24

Signature of the Guide

[Mrs. R S Geethanjali]

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Visvesvaraya Technological University

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A Project Work Phase-II (18CSP83)

Report on

"REAL TIME CROWD COUNTING USING DEEP LEARNING"

Project Report submitted in partial fulfilment of the requirement for the award of the degree of
BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Adithya S.R	**1KG20CS001**
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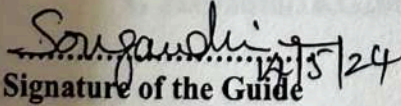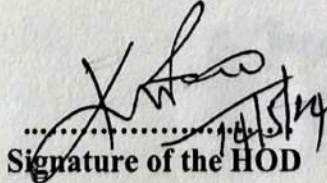## Department of Computer Science & Engineering

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CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"REAL TIME CROWD COUNTING USING DEEP LEARNING"** is a bonafide work carried out by:

Adithya S.R	**1KG20CS001**
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Chandrashekhar	**1KG20CS017**
G Jaswanth	**1KG20CS041**

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 February 2024 to May 2024. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-II Report has been approved as it satisfies the academic requirements in report of project work prescribed for the Bachelor of Engineering degree.
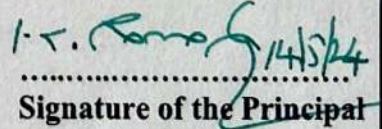
Signature of the Guide   Signature of the HOD   Signature of the Principal

Mrs. Sougandhika Narayan   Dr. K Venkata Rao   Dr. K Rama Narasimha
Assistant Professor, CSE   Prof.& Head, CSE   Dr. K RAMA NARASIMHA
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Jnana Sangama, Belagavi - 590018

A Project Work Phase-2 (18CSP83)

Report on

"A PUF-based Lightweight and Secure Mutual Authentication Mechanism for Remote Keyless Entry Systems"

Project Report submitted in partial fulfilment of the requirement for the w4award of the degree of
BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Rajath K	**- 1KG20CS087**
Sahana S Hegde	**- 1KG20CS097**
Shreya S	**- 1KG20CS099**
Swetha M	**- 1KG20CS108**

Under the guidance of

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2023 – 2024**

K. S. School of Engineering and Management

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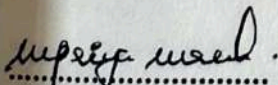
Department of Computer Science & Engineering
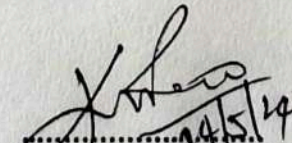
CERTIFICATE

Certified that the Project Work Phase-2 (18CSP83) entitled **"A PUF-based Lightweight and Secure Mutual Authentication Mechanism for Remote Keyless Entry Systems"** is a bonafide workcarried out by:

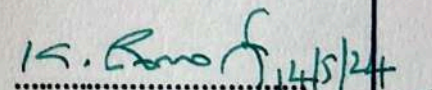|	
RAJATH K	**1KG20CS087**
SAHANA S HEGDE	**1KG20CS097**
SHREYA S	**1KG20CS099**
SWETHA M	**1KG20CS108**

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 . 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. Supriya Suresh]   [Dr. K Venkata Rao]   [Dr. K Rama Narasimha]

Dr. K. RAMA NARASIMHA
Principal/Director

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Bangalore-560109

Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590018

A Project Work Phase-II (18CSP83)

Report on

"ENDPOINT SECURITY AND SURVEILLANCE USING ZERO TRUST"

Project Report submitted in partial fulfilment of the requirement for the award of the degree of
BACHELOR OF ENGINEERING

: IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Darshan M	**1KG20CS023**
Dhilip N	**1KG20CS030**
Durga Prashanth N	**1KG20CS035**
Govardhan AV	**1KG20CS040**

Under the guidance of
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CERTIFICATE

Certified that the Project Work Phase-II (18CSP83) entitled **"ENDPOINT SECURITY AND SURVEILLANCE USING ZERO TRUST"** is a bonafide work carried out by:

Darshan M	**1KG20CS023**
Dhilip N	**1KG20CS030**
Durga Prashanth N	**1KG20CS035**
Govardhan AV	**1KG20CS040**

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 February 2024 to May 2024. It is certified that all the corrections and suggestions indicated for internal assessment have been incorporated. The Project Work Phase-II 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. Prasanna N	Dr. K Venkata Rao	Dr. K Rama Narasimha
Assistant Professor, CSE	Prof.& Head,CSE	Principal/Director
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi - 590018

A Project Work Phase-2 (18CSP83)

Report on

"IMAGE CAPTION GENERATOR USING CNN AND LSTM"

Project Report submitted in partial fulfilment of the requirement for the award of the degree of

BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE AND ENGINEERING

Submitted by

M Rohini	**1KG20CS061**
Prajwal Gowda M	**1KG20CS081**

Under the guidance of
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2023 - 2024

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Certified that the Project Work Phase-II (18CSP83) entitled **"IMAGE CAPTION GENERATOR USING CNN AND LSTM"** is a bonafide work carried out by:

M Rohini	**1KG20CS061**
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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 February 2024 to May 2024. 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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A Project Work Phase-2 (18CSP83)

Report on
"EARLY DETECTION OF OCD SYMPTOMS USING MACHINE LEARNING"

Project Report submitted in partial fulfilment of the requirement for the award of the degree of
BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

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