

# SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(A Unit of Shri Sode Vadiraja Mutt Education Trust @. Udupi)  
Vishwothama Nagar, BANTAKAL - 574 115, Udupi District, Karnataka, INDIA

Department of Computer Science and Engineering

## CERTIFICATE

Certified that the Project Work titled 'Public Bus Tracking and Information using IoT' is carried out by Mr. Karthik H Amin, USN: 4MW19CS045, Mr. Keerthan K Karkera, USN: 4MW19CS048, Mr. Manish Kumar HJ, USN: 4MW19CS051, Miss. Pooja Shettigar, USN: 4MW19CS064 a bonafide student of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all the corrections/ suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

Sy 23/5/23  
Dr. Soumya J Bhat  
Project Guide  
Dept. of CSE

Sy  
Dr. Soumya J Bhat  
Head of the department  
Dept. of CSE

Dept. of Comp. Science & Engg.  
SAIVITM, BANTAKAL-574115

Sy  
Dr. Thirumaleshwara Bhat  
Principal  
SHRI MADHWA VADIRAJA  
INSTITUTE OF TECHNOLOGY & MANAGEMENT  
Vishwothama Nagar, Udupi Dist.  
BANTAKAL - 574 115

### External Viva

Name of the Examiners:

1. Sudarshank.
2. Savitha. A. Shenoy

Signature with Date

Sy  
23/5/23  
Shenoy  
23/05/2023

# SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

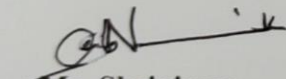
(A Unit of Shri Sode Vadiraja Mutt Education Trust ®, Udupi)

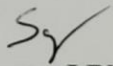
Vishwothama Nagar, BANTAKAL – 574 115, Udupi District, Karnataka, INDIA

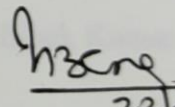
Department of Computer Science and Engineering

## CERTIFICATE

Certified that the Project Work titled 'Lipi-Darpana: A Degraded Historical Document Binarization Application with Secure Interface' is carried out by Mr. Aniketh Shenoy, USN: 4MW19CS010, Mr. Ashith, USN: 4MW19CS020, Mr. Chiranth , USN: 4MW19CS029, Mr. Bibek Kumar Pandit, USN: 4MW19CS026 who are the bonafide students of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of **Bachelor of Engineering** in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all the corrections/ suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

  
Mr. Shrinivasa  
Project Guide  
Dept. of CSE

  
Dr. Soumya J Bhat  
Head of the department  
Dept. of CSE

  
22/5/23  
Dr. Thirumaleshwara Bhat  
Principal  
SHRI MADHWA VADIRAJA  
INSTITUTE OF TECHNOLOGY & MAN  
Vishwothama Nagar Udupi  
BANTAKAL - 574 115

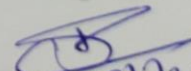
Dept. of Comp. Science & Engg  
SMVITM, BANTAKAL-574 115

External Viva

Name of the Examiners:

1. Sudarshan k.
2. Savitha. A-Shenoy

Signature with Date

  
23/5/23  
Shenoy  
23/05/2023

# SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

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Vishwothama Nagar, BANTAKAL – 574 115, Udupi District, Karnataka, INDIA

## Department of Computer Science and Engineering

### CERTIFICATE

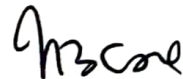
Certified that the Project Work titled 'Prediction of Ocular Diseases using Convolutional Neural Networks' is carried out by Ms. Ranjani, USN: 4MW19CS075, Ms. Srushti H Rao, USN: 4MW19CS095, Ms. Sumana, USN: 4MW19CS099, Ms. Swathi Nayak, USN: 4MW19CS103 who are the bonafide students of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all the corrections/ suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.



Mrs. Yashaswini Jogi  
Project Guide Dept.  
of CSE



Dr. Soumya J Bhat  
Head of the department  
Dept. of CSE



Dr. Thirumaleshwar Bhat  
Principal  
SHRI MADHWA VADIRAJA  
INSTITUTE OF TECHNOLOGY & MANAGEMENT  
Vishwothama Nagar, Udupi Dist.  
BANTAKAL - 574 115

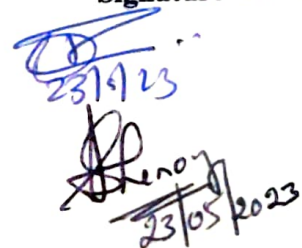
Dept. of Comp. Science & Engg.  
SMVITM, BANTAKAL-574 115

External Viva

Signature with Date

Name of the Examiners:

- Sudashan k.
- Savitha. A. Shetty

  
23/05/2023

# SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

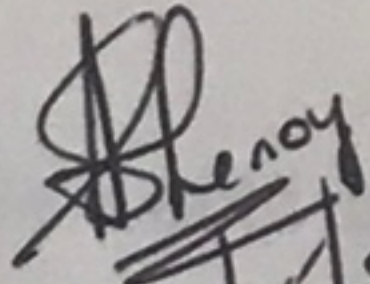
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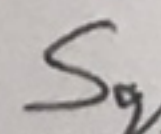
Vishwothama Nagar, BANTAKAL – 574 115, Udupi District, Karnataka, INDIA

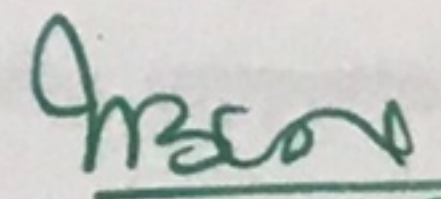
Department of Computer Science and Engineering

## CERTIFICATE

Certified that the Project Work titled 'ECG BASED HEART ABNORMALITY DETECTION AND MYOCARDIAL INFARCTION PREDICTION' is carried out by Ms. Shreeraksha, USN: 4MW19CS091, Ms. Shrutha V Bhat, USN: 4MW19CS094, Mr. Thejas S S, USN: 4MW19CS106 and Mr. Vikram Girish Thunga, USN: 4MW19CS116 bonafide students of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of **Bachelor of Engineering** in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all the corrections/ suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

  
23/05/2023  
Ms. Savitha A Shenoy  
Project Guide  
Dept. of CSE

  
Dr. Soumya J Bhat  
Head of the department  
Dept. of CSE  
**Head**  
**Dept. of Comp. Science & Engg.**  
**SMVITM, BANTAKAL-574115**

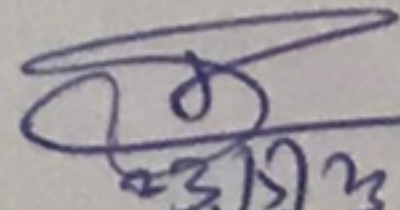
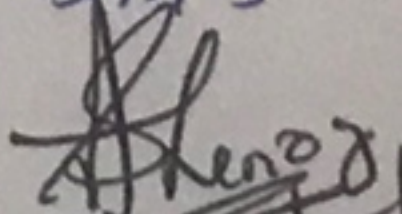
  
23-5-2023  
Dr. Thirumaleshwara Bhat  
Principal  
SHRI MADHWA VADIRAJA  
INSTITUTE OF TECHNOLOGY & MANAGEMENT  
Vishwothama Nagar, Udupi Dist.  
BANTAKAL - 574 115

### External Viva

Name of the Examiners:

1. Sudarshan K.
2. Savitha A. Shenoy

Signature with Date

  
23/5/23  
  
23/05/2023

**SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND  
MANAGEMENT**

(A Unit of Shri SodeVadiraja Mutt Education Trust @, Udupi)

Vishwothama Nagar, BANTAKAL – 574 115, Udupi District, Karnataka, INDIA

**Department of Computer Science and Engineering**

**CERTIFICATE**

Certified that the Project Work titled '**Detection Of Phishing Website Using Machine Learning**' is carried out by Ms Shivani, USN: 4MW19CS083, Ms Shraddha D S, USN: 4MW19CS085, Ms Shraddha S Shetty, USN: 4MW19CS086, Ms Shravya S, USN: 4MW19CS088 bonafide students of Shri MadhwaVadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of **Bachelor of Engineering** in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all the corrections/ suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

*(For)*  
**Mr. Deepak Rao M**  
Assistant Professor (Sr)  
Project Guide  
Dept. of CSE

*Sy*  
**Dr. Soumya J Bhat**  
Head of the department  
Dept. of CSE

**Dept. of Comp. Science & Engg.  
SMVITM, BANTAKAL-574115**

*Dr. Thirumaleshwara Bhat*  
**Dr. Thirumaleshwara Bhat**  
Principal  
Principal  
SHRI MADHWA VADIRAJA  
INSTITUTE OF TECHNOLOGY & MANAGEMENT  
Vishwothama Nagar Udupi Dist.  
BANTAKAL - 574 115

*Dr. Thirumaleshwara Bhat*  
*23.5.2023*

**External Viva**

**Name of the Examiners:**

- Sudarshan k.*
- Savitha. A. Shenoy*

**Signature with Date**

*S*  
*23/5/23*  
*Shenoy*  
*23/5/2023*

# SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT


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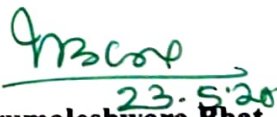
## Department of Computer Science and Engineering

### CERTIFICATE

Certified that the Project Work titled 'Implementing Real Time Application Of Vehicle Theft Detection And Protection' is carried out by Ms.Vasuki Diggavi USN: 4MW19CS114, Mr. Sumantha Shettigar USN : 4MW19CS122, Mr. Snehal Shetty USN : 4MW17CS084 who are the bonafide student of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of **Bachelor of Engineering** in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all the corrections/ suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

  
Deepak Rao M  
Project Guide  
Dept. of CSE

  
Dr. Soumya J Bhat  
Head of the department  
Dept. of CSE

  
Dr. Thirumaleshwara Bhat  
Principal

Dept. of Comp.Science & Engg.  
SMVITM, BANTAKAL-574 115


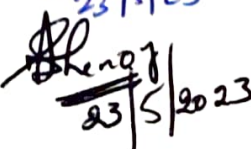
SHRI MADHWA VADIRAJA  
INSTITUTE OF TECHNOLOGY & MANAGEMENT  
Vishwothama Nagar, Udupi Dist.  
BANTAKAL - 574 115

### External Viva

Name of the Examiners:

1. Sudarshan k.
2. Savi tha. A. Shenoy

Signature with Date

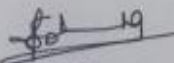
  
23/5/23  
  
23/5/2023


SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND  
MANAGEMENT  
Vishwotham Nagar, Bantakal — 574115, Udupi District Karnataka INDIA  
Department of Computer Science and Engineering.



### CERTIFICATE

Certified that the Project Work titled "Translation Of Kannada Text From Image To English Text Using OCR Technology" is carried out by Ms.Prasannashree USN:4MW19CS067, Ms.Pratheeksha USN:4MW19CS068, Ms.Deekshitha S USN:4MW20CS400, Ms.Nikitha N Nayak USN:4MW20CS401 bonafide students of Shri Madhwa Vadiraja Institute Of Technology And Management, in partial fulfilment for the award of the degree of Bachelor Of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belgavi during the year 2022-2023. It is certified that all the corrections/suggestions indicated for internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

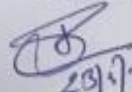
  
Ms. Sahana  
Project Guide  
Dept. of CSE


  
Dr. Sowmya J Bhat  
Professor and Head  
Dept. of CSE

  
Dr. Thirumaleshwara Bhat  
Principal  
SHRI MADHWA VADIRAJA  
INSTITUTE OF TECHNOLOGY & MANAGEMENT  
Vishwothama Nagar Udupi Dist.  
BANTAKAL  
Signature with Date

Dept. of Comp. Science & Engg.  
Name of the examiner **SMVITM BANTAKAL** External Viva

1. Sudarshan k.
2. Savitha. A. Shetty

  
23/5/23

  
25/05/2023

# SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(A Unit of Shri Sode Vadiraja Mutt Education Trust @, Udupi)

Vishwothama Nagar, BANTAKAL - 574 115, Udupi District, Karnataka, INDIA

Department of Computer Science and Engineering



SMVITM

## CERTIFICATE

Certified that the Project Work titled 'Stock Market Prediction Using ML Algorithm' is carried out by Mr. Shreekumar Vishnu Bhat, USN: 4MW19CS090, Mr. Sujith Prabhu, USN: 4MW19CS096, Mr. Aryan S Batny, USN: 4MW19CS019, Mr. T Sreesha, USN: 4MW19CS104, a bona fide student of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfilment for the award of the degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all the corrections/ suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

*Sharath*  
22/5/23

Mr. Sharath Kumar

Project Guide

Dept. of CSE

*Sr*  
Dr. Soumya J Bhat  
Dept. of Comp. Science & Engg.  
SMVITM, BANTAKAL - 574 115

Dept. of CSE

External Viva

*Thirumaleshwara Bhat*  
23/5/2023

Dr. Thirumaleshwara Bhat

Principal

SHRI MADHWA VADIRAJA  
INSTITUTE OF TECHNOLOGY & MANAGEMENT  
Vishwothama Nagar, Udupi Dist.  
BANTAKAL - 574 115

Signature with Date

Name of the Examiners:

1. Sudarshan k.
2. Savitha. A-Shenoy

*S*  
23/5/23  
*Ashenoy*  
23/05/2023



# SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(A Unit of Shri Sode Vadiraja Mutt Education Trust @, Udupi)

Vishwothama Nagar, BANTAKAL - 574 115, Udupi District, Karnataka, INDIA

Department of Computer Science and Engineering

## CERTIFICATE

Certified that the Project Work titled 'Fake Product Detection using Blockchain' is carried out by **Mr. Purvash P Gangolli, Mr. Rakshith H Kalmadi, Mr. Reon Britto, Mr. Sampath Kumar M G**, USN: 4MW19CS071, 4MW19CS074, 4MW19CS076, 4MW19CS078 a bonafide student of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of **Bachelor of Engineering** in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all the corrections/ suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

*HB*  
22/5/23  
**Ms. Rukmini Bhat B**  
Project Guide  
Dept. of CSE

*Sy*  
**Dr. Soumya J. Bhat**  
Head of the department  
Dept. of CSE  
**Head**

*Princpal*  
22/5/2023  
**Dr. Thirumaleshwara Bhat**  
Principal  
**SHRI MADHWA VADIRAJA**  
**INSTITUTE OF TECHNOLOGY & MANAGEMENT**  
Vishwothama Nagar Udupi Dist.  
BANTAKAL - 574 115

**Dept. of Comp. Science & Engg**  
**SMVITM, BANTAKAL-574 115**  
**External Viva**

Name of the Examiners:

1. Sudarshan k
2. Savitha. A. Shenoy

Signature with Date

*Sudarshan k*  
23/5/23  
*Savitha. A. Shenoy*  
23/5/2023

# SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(A Unit of Shri Sode Vadiraja Mutt Education Trust @, Udupi)

Vishwothama Nagar, BANTAKAL – 574 115, Udupi District, Karnataka, INDIA

## Department of Computer Science and Engineering

### CERTIFICATE

Certified that the Project Work titled 'Rice Grading and Quality Analysis' is carried out by **Ms. Bhagyalakshmi B Shetty** USN:4MW19CS025, **Ms. Chaitra Shetty** USN:4MW19CS028, **Ms. Deeksha Shetty** USN:4MW19CS031, **Ms. Manjushree Bhomkar** USN:4MW19CS053, bonafide students of **Shri Madhwa Vadiraja Institute of Technology and Management**, in partial fulfillment for the award of the degree of **Bachelor of Engineering** in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

**Ms. Sowmya S**  
Project Guide  
Dept. of CSE

**Dr. Soumya J Bhat**  
Head of the Department  
Dept. of CSE

**Dept. of Comp. Science & Engg.**  
**SMVITM, BANTAKAL-574115**

**Dr. Thirumaleshwara Bhat**  
Principal  
SHRI MADHWA VADIRAJA  
INSTITUTE OF TECHNOLOGY & MANAGEMENT  
Vishwothama Nagar Udupi Dist.  
BANTAKAL - 574 115

### External Viva

#### Name of the examiner

1. **RAKSHA P**
2. **RANJAN KUMAR H.S.**

#### Signature with Date

  
24/5/23  
24/5/23

# SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(A Unit of Shri Sode Vadiraja Mutt Education Trust @, Udupi)

Vishwothama Nagar, BANTAKAL – 574 115, Udupi District, Karnataka, INDIA

## Department of Computer Science and Engineering

### CERTIFICATE

Certified that the Project Work titled ‘**Sign Language Recognition System**’ is carried out by **Ms. M Sowmitha Pai**, USN: 4MW19CS050, **Ms. Anjali Shet**, USN: 4MW19CS013, **Mr. Ankush Hegde**, USN: 4MW19CS014, **Ms. Anujna**, USN: 4MW19CS015 a bonafide student of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of **Bachelor of Engineering** in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all the corrections/ suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

**Ms. Sowmya S**  
Project Guide  
Assistant Professor  
Dept. of CSE

**Dr. Sowmya J Bhat**  
Head of Department  
Dept. of CSE

**Dr. Thirumaleshwara Bhat**  
Principal

### External Viva

**Name of the Examiners:**

1.

2.

**Signature with Date**

# SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(A Unit of Shri Sode Vadiraja Mutt Education Trust @, Udupi)

Vishwothama Nagar, BANTAKAL – 574 115, Udupi District, Karnataka, INDIA

## Department of Computer Science and Engineering

### CERTIFICATE

Certified that the Project Work titled 'Game development using Unity' is carried out by Mr.Akash S Kotian, USN: 4MW19CS006, Mr.Anantha Krishna Ramachandra, USN: 4MW19CS008, Mr.Manish Prakash Shriyan, USN: 4MW19CS052, Ms.Manvitha Ananth Nilekani, USN: 4MW19CS055, a bonafide student of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of **Bachelor of Engineering** in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all the corrections suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.



Ms. Sowmya

Project Guide

Dept. of CSE

Dr. Soumya Bhat

Head of the department

Dept. of CSE

**Head**  
**Dept. of Comp. Science & Engg.**  
**SMVITM, BANTAKAL, 574115**

Dr. Thirumaleshwara Bhat

Principal

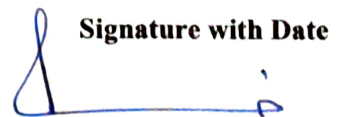
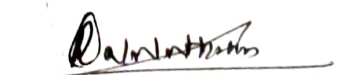
**SHRI MADHWA VADIRAJA**  
**INSTITUTE OF TECHNOLOGY & MANAGEMENT**  
Vishwothama Nagar Udupi Dist.  
BANTAKAL - 574115

### External Viva

Name of the Examiners:

1. RANJAN KUMAR H'S.
2. RAKSHA P

Signature with Date

  
  
24/05/23

# SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

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Vishwothama Nagar, BANTAKAL - 574 115, Udupi District, Karnataka, INDIA

## Department of Computer Science and Engineering

### CERTIFICATE

Certified that the Project Work titled 'Multi Doc Parser for Scholarship System using Google Cloud Platform' is carried out by Ms.Raksha B Kottari, USN: 4MW19CS073, Ms.Shreya S, USN: 4MW19CS093, Ms. Rakshith Acharya, USN: 4MW19CS121 a bonafide student of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of **Bachelor of Engineering** in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all the corrections/ suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

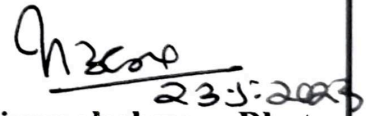


Ms. Sowmya  
Project Guide  
Dept. of CSE



Dr. Soumya J Bhat  
Head of Department  
Dept. of CSE

**Dept. of Comp. Science & Engg.**  
**SMVITA, BANTAKAL - 574 115**  
External Viva



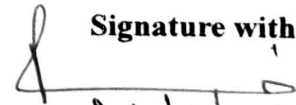
Dr. Thirumaleshwara Bhat  
Principal  
SMVITA, BANTAKAL  
INSTITUTE OF TECHNOLOGY & MANAGEMENT  
Vishwothama Nagar, Udupi Dist.  
BANTAKAL - 574 115

**Name of the Examiners:**

1. RANJAN KUMAR HS

2. RAKSHA P

**Signature with Date**

  
24/05/23  
Rakshith Acharya  
04/05/23

# SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

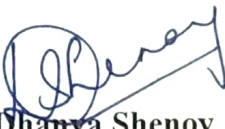
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Vishwothama Nagar, BANTAKAL – 574 115, Udupi District, Karnataka, INDIA

## Department of Computer Science and Engineering


### CERTIFICATE

Certified that the Project Work titled 'Chronic Kidney Disease Prediction using Machine Learning' is carried out by Ms.Shreya S, USN: 4MW19CS092 ,Mr.Swasthik M Acharya, USN: 4MW19CS101,Mr.Prathik V Shenoy, USN: 4MW19CS069 ,Mr.Preran S Jathan, USN: 4MW19CS070 a bonafide student of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of **Bachelor of Engineering** in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all the corrections/ suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

  
Ms. Dhanya Shenoy  
Project Guide  
Dept. of CSE

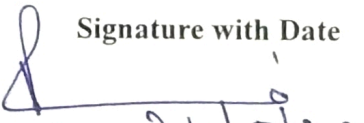
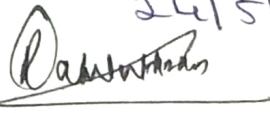
  
Dr. Soumya J Bhat  
Head of Department  
Dept. of CSE

**Head**  
**Dept. of Comp. Science & Engg.**  
**SMVITM, BANTAKAL-574 115**  
**External Viva**

  
23-5-2023  
Dr. Thirumaleshwara Bhat  
Principal  
SMVITM, Bantakal  
SHRI MADHWA VADIRAJA  
INSTITUTE OF TECHNOLOGY AND MANAGEMENT  
Vishwothama Nagar, Udupi Dist.  
KARNATAKA-574 115

Name of the Examiners:

1. RANJAN KUMAR HS
2. RAKSHA PUTHAN

Signature with Date  
  
24/5/23  
  
24/05/23

SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY & MANAGEMENT

Vishwothama Nagar, Bantakal- 574115, Udupi District, Karnataka, India

Department of Computer Science & Engineering

CERTIFICATE

Certified that the Project Work titled 'Movie Recommendation System' is carried out by Ms.Prajna S USN: 4MW19CS066, Ms.Sachiha USN: 4MW19CS077, Ms.Sukanya S Naik USN: 4MW19CS097, Ms.Swathi K USN: 4MW19CS102, bonafide students of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

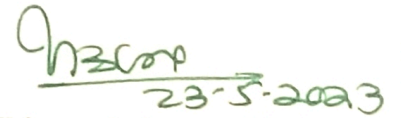


Ms. Dhanya Shenoy  
Project Guide  
Dept. of CSE



Dr. Soumya J Bhat  
Head of the Department  
Dept. of CSE

**Dept. of Comp. Science & Engg.**  
**SMVITA, BANTAKAL - 574115**



23-5-2023

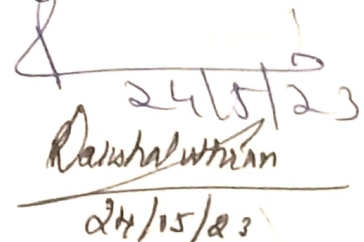
Dr. Thirumaleshwara Bhat  
Principal  
SHRI MADHWA VADIRAJA  
INSTITUTE OF TECHNOLOGY & MANAGEMENT  
Vishwothama Nagar, Udupi Dist.  
BANTAKAL - 574115

External Viva

Name of the examiner

1. RANJAN KUMAR HS
2. RAKSHA P

Signature with Date



24/5/23  
Ranjankumar  
24/5/23


# SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT


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Vishwothama Nagar, BANTAKAL - 574 115, Udupi District, Karnataka, INDIA

Department of Computer Science and Engineering

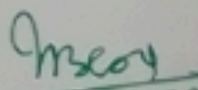
## CERTIFICATE

Certified that the Project Work titled 'Driver Drowsiness Detection System' is carried out by Ms. Anusha, USN: 4MW19CS016, Ms. Chaithrakala, USN: 4MW19CS027, Ms. Dhathri Tendulkar, USN: 4MW19CS032, Ms. Jelena Riya Lewis, USN: 4MW19CS041 a bonafide student of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of **Bachelor of Engineering** in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all the corrections/ suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

  
Dr. Sadananda L  
Project Guide  
Dept. of CSE

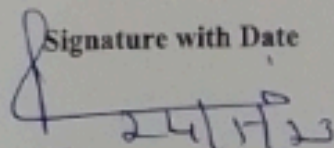
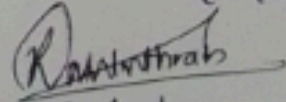
  
Dr. Sowmya Bhat  
Head of Department  
Dept. of CSE

**Dept. of Comp. Science & Engg.**  
**SMVITM, BANTAKAL - 574 115**  
External Viva

  
23-5-2023  
Dr. Thirumaleshwara Bhat  
Principal  
SHRI MADHWA VADIRAJA  
INSTITUTE OF TECHNOLOGY & MANAGEMENT  
Vishwothama Nagar, Udupi Dist,  
BANTAKAL - 574 115

Name of the Examiners:

1. RANJAN KUMARHS
2. RAKHA P

Signature with Date  
  
24/11/23  
  
24/10/23



# SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

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Vishwothama Nagar, BANTAKAL – 574 115, Udupi District, Karnataka, INDIA

Department of Computer Science and Engineering

## CERTIFICATE

Certified that the Project Work titled 'Classification of News Based on Location Using ML Algorithms' is carried out by Mr. Nishith Shetty USN: 4MW19CS059, Mr. Nithanth Marate USN: 4MW19CS061, Mr. Nishanth R Amin USN: 4MW19CS058 and Mr Aniruddh Raveesh, USN: 4MW19CS011 are bonafide student of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all the corrections/ suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.



Dr. Sadananda L  
Project Guide  
Dept. of CSE

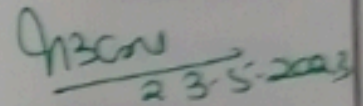


Dr. Sowmya J Bhat  
Head of Department  
Dept. of CSE

Head

Dept. of Comp. Science & Engg.  
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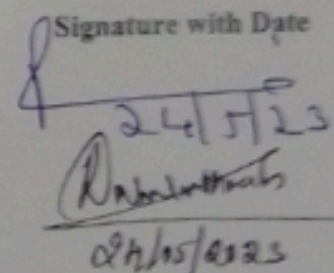
Dr. Thirumaleshwara Bhat  
Principal

SHRI MADHWA VADIRAJA  
INSTITUTE OF TECHNOLOGY & MANAGEMENT  
Vishwothama Nagar, Udupi Dist.  
BANTAKAL - 574 115

Name of the Examiners:

1. RANJAN KUMAR HS
2. RAKSHA P

Signature with Date



24/5/23  
Ranjan Kumar HS  
24/5/23

**SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY &  
MANAGEMENT**

Vishwothama Nagar, Bantakal- 574115, Udupi District, Karnataka,  
India

**Department of Computer Science & Engineering**

**CERTIFICATE**

Certified that the Project Work titled 'Travel Guide Management System–Easy Viaje' is carried out by Ms. Jeevitha USN:4MW19CS040, bonafide students of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

*Yashaswini A S*  
23/5/23

Ms Yashaswini A S  
Project Guide  
Dept. of CSE

*Sq*  
Dr. Soumya J Bhat  
Head of the Department  
Dept. of CSE

*Head*  
Dept. of Comp. Science & Engg.  
SMVITM, BANTAKAL-574115

*Thirumaleshwara Bhat*  
23.5.2023  
Dr. Thirumaleshwara Bhat  
Principal

**External Viva**

**Name of the examiner  
with Date**

1. RANJAN KUMAR H S
2. LAKSHI P

**Signature**

*Ranjana*  
24/5/23  
Ranjana  
24/05/2023

ACKNOWLEDGEMENT

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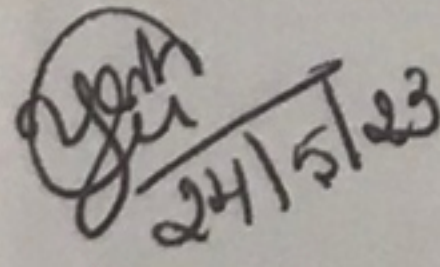
Vishwothama Nagar, BANTAKAL – 574 115, Udupi District, Karnataka, INDIA

**Department of Computer Science and Engineering**

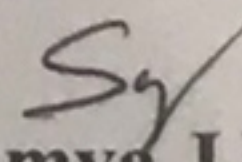
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## CERTIFICATE

Certified that the Project Work titled 'Agricultural Tools Rental Web Application' is carried out by Mr. Adithya M Samaga USN: 4MW19CS003, Mr. Ashlesh H Gams USN: 4MW19CS021, Mr. Gautam N Shet USN: 4MW19CS036, Mr. Hariprasad Bhat K USN: 4MW19CS037, a bonafide student of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of **Bachelor of Engineering** in Computer Science and Engineering of Visvesvaraya Technological University, Belgavi during the year 2022-23. It is certified that all the corrections/ suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

  
Ms. Yashaswini A S

Project Guide  
Dept. of CSE

  
Dr. Soumya J Bhat

Head of the department  
Dept. of CSE

**Dept. of Comp. Science & Engg.**  
**SMVITM BANTAKAL-574 115**

**External Viva**

  
Dr. Thirumaleshwara Bhat

Principal

SHRI MADHWA VADIRAJA

INSTITUTE OF TECHNOLOGY & MANAGEMENT

Vishwothama Nagar, Udupi Dist.

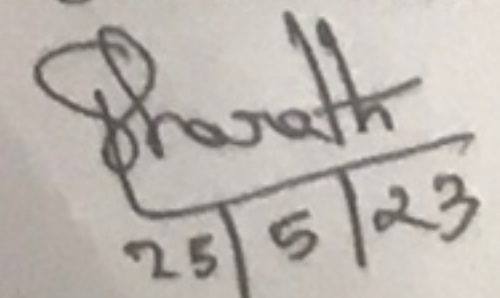
BANTAKAL - 574 115

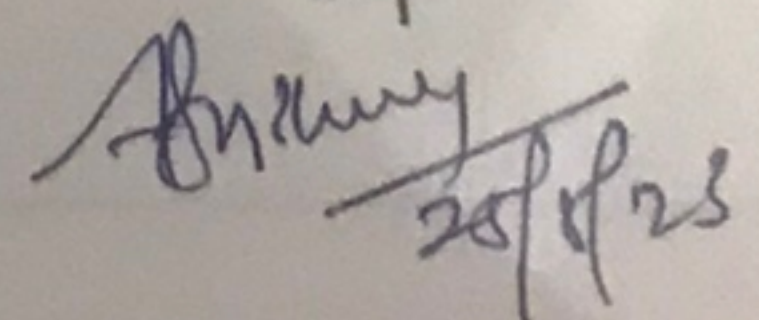
Name of the Examiners:

1. Sharath Kumar

2. Ansmaranjan K

Signature with Date

  
25/5/23

  
25/5/23

# SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(A Unit of Shri Sode Vadiraja Mutt Education Trust @, Udupi)

Vishwothama Nagar, BANTAKAL – 574 115, Udupi District, Karnataka, INDIA

Department of Computer Science and Engineering

## CERTIFICATE

Certified that the Project Work titled '**Disease Prediction System using Machine Learning**' is carried out by **Mr. Yajnesh**, USN: **4MW19CS120**, **Mr. Varun Ramachandra Naik**, USN: **4MW19CS113**, **Mr. Vishwas Prabhu**, USN: **4MW19CS118** and **Mr. Uttam Naik**, USN: **4MW19CS108** a bonafide student of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfilment for the award of the degree of **Bachelor of Engineering** in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.



**Ms. Vijetha**  
Project Guide  
Dept. of CSE



**Dr. Sowmya J Bhat**  
Professor and Head  
Dept. of CSE

**Head**  
**Dept. of Comp. Science & Engg.**  
**SMVITM, BANTAKAL-574 115**  
**External Viva**



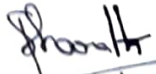

**Dr. Thirumaleshwara Bhat**

Principal  
Principal  
**SHRI MADHWA VADIRAJA**  
**INSTITUTE OF TECHNOLOGY & MANAGEMENT**  
Vishwothama Nagar Udupi Dist.  
BANTAKAL - 574 115

**Name of the Examiners:**

1. Sharath Kumar
2. Abhinarjan k.

**Signature with Date**

  
25/5/23  
  
25/5/23

# SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

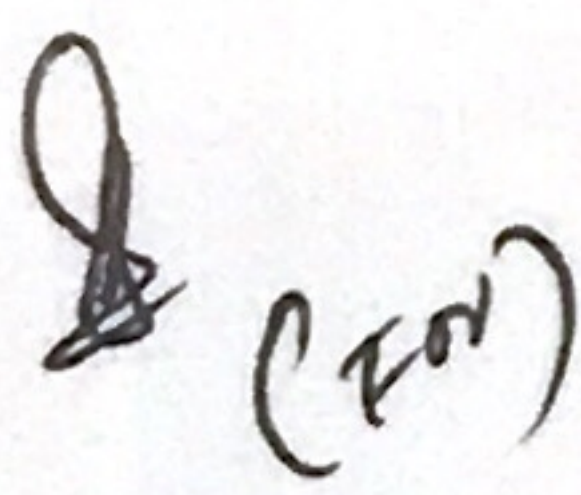
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Vishwothama Nagar, BANTAKAL - 574 115, Udupi District, Karnataka, INDIA

Department of Computer Science and Engineering

## CERTIFICATE

Certified that the Project Work titled ' **Brain Tumor Detection using Machine Learning** ' is carried out by **Ms.Uchil Deepta L**, USN: **4MW19CS107** , **Ms.Sardar Afifa**, USN: **4MW19CS081**, **Mr.Qais Sheikh**, USN: **4MW19CS072** , **Ms.Shradda B Chatra**, USN: **4MW19CS084** a bonafide student of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of **Bachelor of Engineering** in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all the corrections/ suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

  
**Ms. Vijetha**  
Project Guide  
Dept. of CSE

  
**Dr. Soumya J Bhat**  
Head of Department  
Dept. of CSE

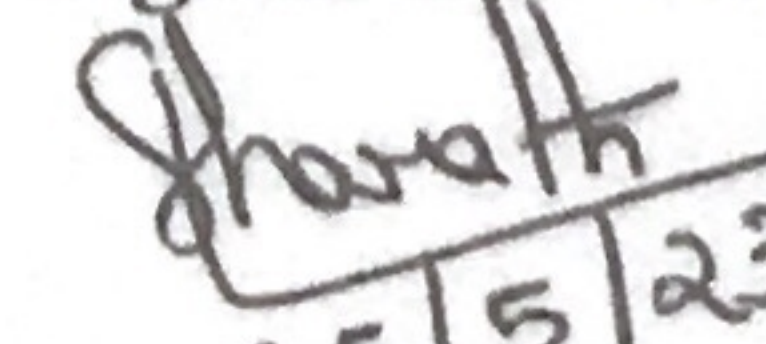
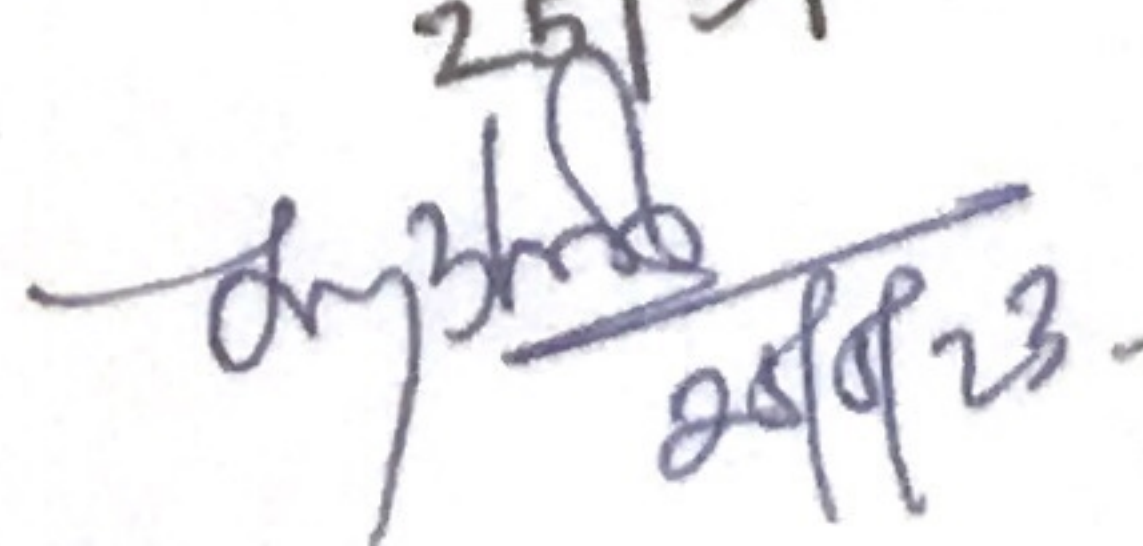
  
**Dr. Thirumaleshwara Bhat**  
Principal  
SMVITM, BANTAKAL  
INSTITUTE OF TECHNOLOGY & MANAGEMENT  
Vishwothama Nagar Udupi Dist.  
BANTAKAL - 574 115

**Dept. of Comp. Science & Engg.**  
**SMVITM, BANTAKAL-574 115**  
External Viva

Name of the Examiners:

1. **Shareeth Kumar**
2. **Alismaranjan K**

Signature with Date

  
25/5/23  
  
25/5/23

**SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT**

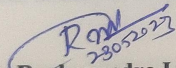
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Vishwothama Nagar, BANTAKAL – 574 115, Udupi District, Karnataka, INDIA


Department of Computer Science and Engineering

**CERTIFICATE**

Certified that the Project Work titled 'Detection of Cholesterol and Diabetes using Iris Recognition' is carried out by Ms. Avanti V Rao USN : 4MW19CS022 , Ms. Ananya D USN : 4MW19CS009, Mr. Akash USN : 4MW19CS004 and Mr. Akash G S Kumar USN:4MW19CS005, bonafide students of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

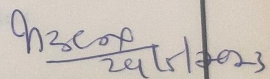
  
Mr. Raghavendra I Hegde  
Project Guide

Dept. of CSE

  
Dr. Soumya J Bhat  
Head of the Department

Dept. of CSE

**Dept. of Comp. Science & Engrg.  
SMVITB BANTAKAL-574115**

  
Dr. Thirumaleshwara Bhat  
Principal

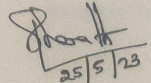
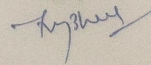
SHRI MADHWA VADIRAJA  
INSTITUTE OF TECHNOLOGY & MANAGEMENT  
Vishwothama Nagar Udupi Dist.  
BANTAKAL - 574 115

**External Viva**

Name of the examiner  
Date

1. Sharath Kumar
2. Abhinarjan le

Signature with

  
25/5/23  


# SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

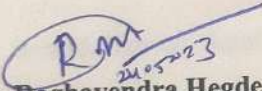
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
Vishwothama Nagar, BANTAKAL – 574 115, Udupi District, Karnataka, INDIA

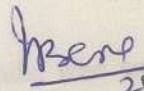
## Department of Computer Science and Engineering

### CERTIFICATE

Certified that the Project Work titled 'Strix-Local Business Finder' is carried out by **Mr. Abhishek Dayanand Hegde**, USN: 4MW19CS002 , **Mr. Gaurav Acharya**, USN: 4MW19CS035, **Mr. Jnanesh B S**, USN: 4MW19CS042, **Mr. Manoj Muralidhar Bhagawath**, USN: 4MW19CS054, a bonafide student of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of **Bachelor of Engineering** in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all the corrections/ suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

  
**Mr. Raghavendra Hegde**  
Project Guide  
Dept. of CSE

  
**Dr. Soumya J Bhat**  
Head of the department  
Dept. of CSE

  
**Dr. Thirumaleshwara Bhat**  
Principal

**SHRI MADHWA VADIRAJA**  
**INSTITUTE OF TECHNOLOGY & MANAGEMENT**  
Vishwothama Nagar Udupi Dist.  
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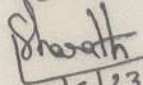
**Dept. of Comp. Science & Engg.**  
**SMVITM, BANTAKAL-574 115**

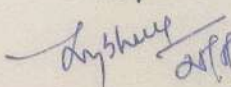
### External Viva

Name of the Examiners:

1. **Shorath Kumar**
2. **- Ashimantyanjan k**

Signature with Date

  
25/5/23

  
25/5/23

# SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(A Unit of Shri Sode Vadiraja Mutt Education Trust @, Udupi)

Vishwothama Nagar, BANTAKAL - 574 115, Udupi District, Karnataka, INDIA

Department of Computer Science and Engineering

## CERTIFICATE

Certified that the Project Work titled 'Smart Vision for Visually Challenged People using Machine Learning Algorithms' is carried out by Ms. Anjali USN: 4MW19CS012, Ms. Anusha USN: 4MW19CS017, Ms. Ayesha Sadiya USN: 4MW19CS023, and Ms. B T Anvit USN: 4MW19CS024, bonafide students of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of **Bachelor of Engineering** in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

*Rsf*  
Ms. R Soundharya  
Project Guide  
Dept. of CSE

*Sy*  
Dr. Soumya J Bhat  
Head of the department  
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*Anand*  
*24/5/2023*  
Dr. Thirumaleshwara Bhat  
Principal

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Name of the Examiners:

1. Athimaranjan K
2. Shasath Kumar

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*Shasath*  
*24/5/23*

*Shasath*  
*25/5/23*



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Department of Computer Science and Engineering

## CERTIFICATE

Certified that the Project Work titled 'Prediction of Mental Health Illness using Machine Learning Algorithms' is carried out by Ms. Moazzami Mukhtar Ahmed USN: 4MW19CS056, Ms. Nabecha Banu USN: 4MW19CS057, Ms. Niveditha Nanda Kumar USN: 4MW19CS062, Ms. Shravya Kamath U USN: 4MW19CS089 bonafide students of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all the corrections/ suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of the Project Work prescribed for the said Degree.

R.S.J.

Ms. R Soundharya

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Sy

Dr. Soumya J Bhat

Head of the department

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Inzere  
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Dr. Thirumaleshwara Bhat

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BANTAKAL - 574 115

Signature with Date

Name of the Examiners:

1. Sharath Kumar

2. Ashimaranpu k

Sharath  
25/5/23

Ashimaranpu k  
25/5/23

# SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

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Department of Computer Science and Engineering

## CERTIFICATE

Certified that the Project Work titled 'Tours and Travels' is carried out by Mr. Karthik V Shetty, USN: 4MW19CS046, Mr. Abhinava Karanth, USN: 4MW19CS001, Mr. Akshay Kumar, USN: 4MW19CS007, Mr. Eshaan U Kundar, USN: 4MW19CS034 a bonafide student of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of **Bachelor of Engineering** in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all the corrections/ suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

*Chaitra*  
Ms. Chaitra Bhat M  
Project Guide  
Assistant Professor  
Dept. of CSE

*Sy*  
Dr. Sowmya J Bhat  
Head of Department  
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*Thirumaleshwara Bhat*  
Dr. Thirumaleshwara Bhat  
Principal

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*Thirumaleshwara Bhat*  
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Name of the Examiners:

1. *Shorath Kumar*

2. *Abhimanjan K*

Signature with Date

*Shorath*  
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*Abhimanjan*  
20/5/23

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Department of Computer Science and Engineering

## CERTIFICATE

Certified that the Project Work titled 'Farmer's Assistance Portal for Better Crop Production' is carried out by Ms. Vaishnavi K R, USN:4MW19CS110, Ms. Vaishnavi D, USN:4MW19CS109, Ms. Vaishnavi V Bhat, USN: 4MW19CS111, Mr. Tarun R Shetty, USN:4MW19CS105, a bonafide student of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all the corrections/ suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

*Chaitra*  
Ms. Chaitra Bhat M

Project Guide  
Dept. of CSE

*Soy*  
Dr. Soumya J Bhat

Head of the department  
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*Chiray*  
Dr. Thirumaleshwara Bhat

Principal  
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Name of the Examiners:

1. Sharath Kumar
2. Arismaranjan

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*Sharath*  
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*Soumya*  
25/5/23

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Department of Computer Science and Engineering

## CERTIFICATE

Certified that the Project Work titled 'Sentiment classification on Women safety across Indian Cities using Natural Language processing and Machine learning' is carried out by **Mr. VARUN** USN: 4MW18CS095, **Ms. DISHASHREE** USN: 4MW19CS033, **Ms. J TRESHIKA** USN: 4MW19CS039, **Ms. KAJAL KUMARI** USN: 4MW19CS044 who are the bonafide students of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of **Bachelor of Engineering** in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all the corrections/ suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

*Preethi M*  
25/05/23  
**Mrs. Preethi M**  
Project Guide  
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*Soy*  
**Dr. Soumya J Bhat**  
Head of the department  
Dept. of CSE  
**Head**  
**Dept. of Comp. Science & Engg.**  
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*Thirumaleshwara Bhat*  
25/5/23  
**Dr. Thirumaleshwara Bhat**  
Principal  
Principal  
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### External Viva

Name of the Examiners:

Date

1. Sharath Kumar
2. Anshumanjan k

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*Sharath*  
26/5/23

*Anshumanjan k*  
28/5/23

# SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

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Vishwothama Nagar, BANTAKAL – 574 115, Udupi District, Karnataka, INDIA

Department of Computer Science and Engineering

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*Preethi M*  
3/5/23

Mrs. Preethi M  
Project Guide  
Dept. of CSE

*Soumya*

Dr. Soumya J Bhat  
Head of the department  
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**Dept. of Comp. Science & Engg**  
**SMVITM, BANTAKAL-574 115**

*Thirumaleshwara Bhat*  
25/5/23

Dr. Thirumaleshwara Bhat  
Principal

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### External Viva

Name of the Examiners:  
Date

1. Sharath Kumar
2. Anishwaranjan K

Signature with

*Sharath*  
26/5/23

*Anishwaranjan*  
26/5/23


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Vishwothama Nagar, BANTAKAL - 574 115, Udupi District, Karnataka, INDIA

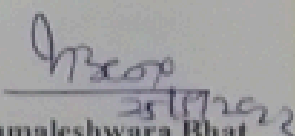
Department of Computer Science and Engineering

## CERTIFICATE

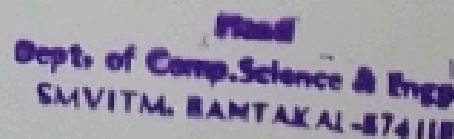
Certified that the Project Work titled 'A Blockchain Based Authentication System for Digital Documents' is carried out by Mr. Santhosh, USN: 4MW19CS080, Mr. Sukumara C Shetty, USN: 4MW19CS098, Mr. Vishal Chalwadi, USN: 4MW19CS117, Mr. Shanbhag Karthikeya, USN: 4MW20CS402, a bonafide student of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all the corrections/ suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

  
Mr. Ranjan Kumar H S  
Project Guide  
Dept. of CSE

  
Dr. Soumya J Bhat  
Head of the department  
Dept. of CSE

  
Dr. Thirumaleshwara Bhat  
Principal

Principal  
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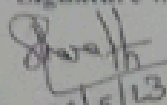
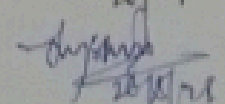
  
Dept. of Comp. Science & Engg.  
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### External Viva

Name of the Examiners:

1. Sharath Kumar
2. Anjan Kumar K

Signature with Date

  
26/5/23  
  
26/5/23

# SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

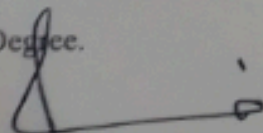
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
Vishwothama Nagar, BANTAKAL - 574 115, Udipi District, Karnataka, INDIA

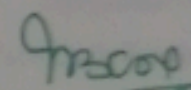
Department of Computer Science and Engineering

## CERTIFICATE

Certified that the Project Work titled 'Image Processing Using RRNS' is carried out by Ms. Vijayalakshmi, USN:4MW19CS115, Ms. Varshini V Poojary, USN: 4MW19CS112, Ms. Shamitha S Amin, USN:4MW19CS082, Ms. Sanjana S, USN: 4MW19CS079, bonafide students of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of the degree of **Bachelor of Engineering** in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all the corrections/ suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

  
Mr. Ranjan Kumar H S  
Project Guide  
Dept. of AI & ML

  
Dr. Soumya J Bhat  
Head of the department  
Dept. ~~of~~ **CSSE**


  
Dr. Thirumaleshwara Bhat  
Principal  
Principal  
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Name of the Examiners:

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2. Animesh Kumar le

  
28/11/2022