



## CERTIFICATE

This is to certify that the project report entitles  
**SECURITY MANAGEMENT FOR TRANSACTION AND KYC USING  
BLOCKCHAIN TECHNOLOGY**

1. Shewale Pranjal	B190264318
2. Siddam Nupur	B190264324
3. Vacche Sakshi	B190264337
4. Anjali Wakade	B190264340

is a bonafide student of this institute and the work has been carried out by him/her under the guidance of Prof.N.V.Gawali and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering** (Computer Engineering).

**(Prof. N.V.Gawali)**

Project Guide

Department of Computer Engineering

**(Dr. M.P.Bořawake)**

H.O.D,

Department of Computer Engineering

**(Prof. A.A. Bamanikar)**

Project Co-ordinator

Department of Computer Engineering

**External Examiner**

**(Dr. R. V. Patil)**

Principal

PDEA's College of Engineering Manjari (Bk), Pune -412307

Place : Pune

Date : 31-05-2024



## CERTIFICATE

This is to certify that the project report entitles.

### SUSPICIOUS ACTIVITY DETECTION

#### Submitted By

Student Name	Exam No
Aditi Shinde	B190264320
Sakshi Mane	B190264282
Bhagyashri Chame	B190264222
Prasad Bhumkar	B190264217

is a bonafide student of this institute and the work has been carried out by him/her under the guidance of Prof. N.V. Gawali is an approved for the partial fulfillment to their requirement of Savitribai Phule Pune University, for the award of the degree of Bachelor of Engineering (Computer Engineering).

**Prof. N.V.Gawali**

Project Guide

Department of Computer Engineering

**Dr.M.P.Borawake**

H.O.D

Department of Computer Engineering

**Prof. A. A. Bamanikar**

Project Coordinator

**Dr. R. V. Patil**

Principal

**External Examiner**

PDEA's College of Engineering Manjari, Pune-412307

Place: Pune

Date: 31/05/24





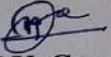
**CERTIFICATE**

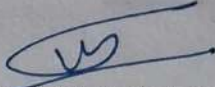
This is to certify that the project report entitles  
**Implementation of Real-Time Chat Application**

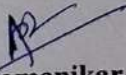
Submitted by

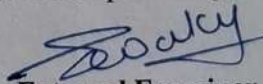
**Narendra Choudhary  
Rushikesh Walke  
Sushant Mane  
Sairaj Yeshwante**

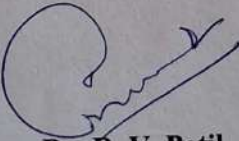
is a Bonafide student of this institute and the work has been carried out by him/her under the supervision of **Prof. Dr. R.V Patil** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering** (Computer Engineering).

  
**Prof. N.V. Gawali**  
Guide,  
Department of Computer Engineering

  
**Prof. M.P. Borawake**  
Head,  
Department of Computer Engineering

  
**Prof. A.A. Bamanikar**  
Project Coordinator

  
**External Examiner**

  
**Dr. R. V. Patil**  
Principal,  
PDEA's College of Engineering Manjari (Bk.), Pune

Place: **Pune**  
Date: **31/05/24**



## CERTIFICATE

This is to certify that the project report entitles

### TRAFFIC DENSITY BASED SIGNAL CONTROLLING SYSTEM USING ML

#### Submitted By

STUDENT NAME

Exam seat No:

- |                            |            |
|----------------------------|------------|
| 1. SIDDHESH NAMDEV DABHADE | B190264229 |
| 2. KUNAL RAJENDRA THORAT   | B190264332 |
| 3. VIJAY BABASAHEB SHELKE  | B190264317 |
| 4. SAHIL SANJAY SHINGOTE   | B190264322 |

is a bonafide student of this institute and the work has been carried out by him under the guidance of **Prof. S.V.SHINDE** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering** (Computer Engineering).

(Prof. S.V.Shinde)

Project Guide

Department of Computer Engineering

(Dr. M.P.Borawake)

H.O.D,

Department of Computer Engineering

(Prof. A.A. Bamanikar)

Project Coordinator

External Examiner

(Dr. R. V. Patil)

Principal

PDEA's College of Engineering Manjari (Bk), Pune 412307

Place: Pune

Date: 31/05/24





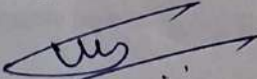
## CERTIFICATE

This is to certify that the project report entitles

.....

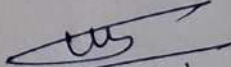
STUDENT NAME	Exam seat.no.
1. Darshan Sanjay Chatur	B190264223
2. Satvik Vishwas Pilane	B190264304
3. Anujay Machindra Kalbhor	B190264258
4. Aditya Sanjay Unde	B190264336

is a bonafide student of this institute and the work has been carried out by him/her under the guidance of Dr.M.P.Borawake and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering** (Computer Engineering).

  
(Dr.M.P.Borawake)

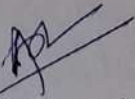
Project Guide

Department of Computer Engineering


  
(Dr. M.P.Borawake)

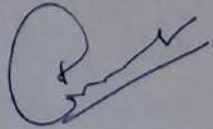
H.O.D

Department of Computer Engineering

  
(Prof. A.A. Bamanikar)  
Project Co-ordinator

Department of Computer Engineering

  
External Examiner



(Dr. R. V. Patil)

Principal

PDEA's College of Engineering Manjari (Bk), Pune -412307

Place : Pune

Date : 31/05/24



**CERTIFICATE**

This is to certify that the project report entitles

**“VIDEO STREAMING APPLICATION”**

Submitted by

AMAY B. TAYDE	B190264331
VYANKATSH G. DESHMUKH	B190264233
RUSHIKESH R. SHINDE	B190264321
ABHISHEK P. TAWARE	B190264330

is a bonafide student of this institute and the work has been carried out by him/her under the supervision of **Prof. A.A. Bamanikar** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering** (Computer Engineering).

**Prof. A.A. Bamanikar**  
Guide  
Department of Computer Engineering

**Dr. M.P. Borawake**  
Head,  
Department of Computer Engineering

**Prof. A.A. Bamanikar**  
Project Coordinator

**External Examiner**

**Dr. R. V. Patil**  
Principal,

PDEA's College of Engineering Manjari (Bk.), Pune – 412307

Place: Pune  
Date: 31/05/2024





## CERTIFICATE

This is to certify that the project report entitles

### **MLSHIELD : INTRUSION DETECTION SYSTEM USING MACHINE LEARNING**

Submitted by

<b>KALPESH BANSODE</b>	<b>B190264209</b>
<b>ANURAG BIBAVE</b>	<b>B190264219</b>
<b>OM DHANVE</b>	<b>B190264235</b>
<b>ATHARVA JAGTAP</b>	<b>B190264252</b>

is a bonafide student of this institute and the work has been carried out by him/her under the supervision of **Prof. S.V.SHINDE** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering** (Computer Engineering).

**Prof.S.V.SHINDE**

Guide

Department of Computer Engineering

**Dr. M.P.Borawake**

Head,

Department of Computer Engineering

**Prof. A.A. Bamanikar**

Project Cordinator

**External Examiner**

**Dr. R. V. Patil**

Principal,

PDEA's College of Engineering Manjari (Bk.), Pune - 307

Place: Pune

Date: 31/05/24




## CERTIFICATE

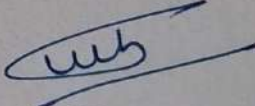
This is to certify that the project report entitles

### Online Voting System

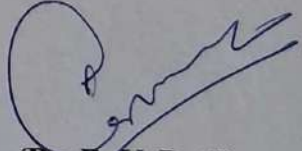
STUDENT NAME	Exam seat No:
1. Chetan Gyandev Mane	B190264280
2. Vipul Prakash Raut	B190264307
3. Sarthak Shirish Mahajan	B190264278
4. Yogesh Sanjay Patil	B190264303

is a bonafide student of this institute and the work has been carried out by him/her under the guidance of Prof.A.A.Bamanikar and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering** (Computer Engineering).

  
(Prof.A.A.Bamanikar)  
Project Guide & Project Co-ordinator  
Department of Computer Engineering

  
(Dr. M.P.Borawake)  
H.O.D,  
Department of Computer Engineering

  
External Examiner

  
(Dr. R. V. Patil)  
Principal  
PDEA's College of Engineering Manjari (Bk),  
Pune-412307

Place : Pune

Date : 31/05/2024





## CERTIFICATE

This is to certify that the project report entitles

**“AI BASED MOCK INTERVIEW EVALUATOR”**

Submitted by

STUDENT NAME

Exam No:

Pranjal Walmik Barse

[B190264211]

Bhavesh Chandrashekhar Borse

[B190264213]

Shubhada DhananjayDeshmukh

[B190264232]

Dnyaneshwari Sanjay Kulkarni

[B190264274]

is a bonafide student of this institute and the work has been carried out by him/her under the supervision of **Prof. A.A. Bamanikar** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering** (Computer Engineering).

**Prof. A.A. Bamanikar**

Guide

Department of Computer Engineering

**Dr. M.P. Borawake**

Head,

Department of Computer Engineering

**Prof. A.A. Bamanikar**

Project Coordinator

**External Examiner**

**Dr. R. V. Patil**

Principal,

PDEA's College of Engineering Manjari (Bk.), Pune – 307

Place: Pune

Date: 31/05/24



This is to certify that the project report entitles

## Banking Transaction Handling Using Blockchain Technology

Student name	Exam seat:
1. Abhijeet Mojilal Chavan.	B190264224
2. Aarman Mohammad Shaikh.	B190264314
3. Apurva Sudhir Tupdauru.	B190264334

is a bonafide student of this institute and the work has been carried out by him/her under the guidance of Prof.A.A.Bamanikar and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of Bachelor of Engineering Computer Engineering.

(Prof.A.A.Bamanikar)

Project Guide

Department of Computer Engineering

(Dr. M.P.Borawake)

H.O.D,

Department of Computer Engineering

(Prof.A.A.Bamanikar)

Project co-ordinator

Department of computer Engineering

External Examiner

(Dr. R. V. Patil)

Principal

PDEA's College of Engineering Manjari (Bk) Pune -412307

Place: Pune

Date: 31/05/24





## CERTIFICATE

This is to certify that the project report entitles

STUDENT NAME	Exam seat No:
1.Swayam Manoj Borude	B190264221
2.Rutuja Rajesh Chavan	B190264226
3.Rahil Mohamad Shiakh	B190264315
4.Darshan Dilip Walunje	B190264342

is a bonafide student of this institute and the work has been carried out by him/her under the guidance of **Prof. A. A. Bamanikar** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering** (Computer Engineering).

(Prof. A. A. Bamanikar)  
Project Guide

(Dr. M.P. Borawake)  
H.O.D,

(Prof. A.A. Bamanikar)  
Project Co-ordinator

External Examiner

(Dr. R. V. Patil)  
Principal

PDEA's College of Engineering Manjari (Bk), Pune-412307

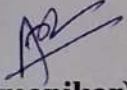
Place : Pune



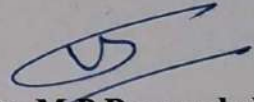
This is to certify that the project report entitles

STUDENT NAME	Exam seat:
1. Vaishnavi Vivek Jagadale	B190264251
2. Sakshi Pradip Mane	B190264281
3. Shraddha Dilip Walunje	B190264343

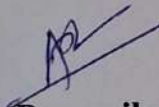
is a bonafide student of this institute and the work has been carried out by him/her under the guidance of Prof.A.A.Bamanikar and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of Bachelor of Engineering Computer Engineering.

  
(Prof.A.A.Bamanikar)

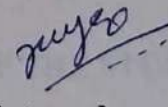
Project Guide  
Department of Computer Engineering

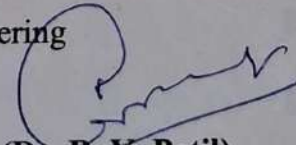
  
(Dr. M.P.Borawake)

H.O.D,  
Department of Computer Engineering

  
(Prof.A.A.Bamanikar)

Project co-ordinator  
Department of computer Engineering

  
External

  
(Dr. R. V. Patil)

Principal

PDEA's College of Engineering Manjari (Bk)Pune -412307

Place: Pune

Date: 31/05/24





## CERTIFICATE

This is to certify that the project report entitles

STUDENT NAME	Exam seat.no.
1. Ranjit Chandrakant Lavate	B190264276
2. Satyajee Prashant Suryawanshi	B190264325
3. Vaibhav Raju Tribhuvan	B190264333
4. Ganesh Popat Walunjkar	B190264344

is a bonafide student of this institute and the work has been carried out by him/her under the guidance of Dr.M.P.Borawake and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering** (Computer Engineering).

**(Prof. Dr. M.P. Borawake)**  
Project Guide  
Department of Computer Engineering

**(Dr. M.P. Borawake)**  
H.O.D,  
Department of Computer Engineering

**(Prof. A.A. Bamanikar)**  
Project Co-ordinator  
Department of Computer Engineering

**External Examiner**

**(Dr. R. V. Patil)**  
Principal

PDEA's College of Engineering Manjari (Bk), Pune -412307

Place : Pune  
Date : 31/07/24



## CERTIFICATE

This is to certify that the project report entitles

**“LEAF DISEASE DETECTION USING IMAGE PROCESSING WITH AI”**

Submitted by

STUDENT NAME	Exam No
<b>ANJALI WARARKAR</b>	<b>B190264346</b>
<b>HARISH PAJAI</b>	<b>B190264296</b>
<b>ROHINI SANKAPAL</b>	<b>B190264310</b>
<b>SHUBHAM KUMAR</b>	<b>B190264323</b>

is a bonafide student of this institute and the work has been carried out by him/her under the supervision of **Prof. S.V.SHINDE** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering** (Computer Engineering).

**Prof. S.V.SHINDE**

Guide

Department of Computer Engineering

**Dr. M.P.Borawake**

Head,

Department of Computer Engineering

**Prof. A.A. Bamanikar**

Project Cordinator

**Dr. R. V. Patil**

Principal,

PDEA's College of Engineering Manjari (Bk.), Pune – 307

**External Examiner**

Place: Pune

Date: 31/05/24





## CERTIFICATE

This is to certify that the project report entitles

**“ANALYZE AND FORECAST CYBER ATTACK DETECTION SYSTEM  
USING MACHINE LEARNING”**

Submitted by

STUDENT NAME	Exam No:
<b>Nahush Satish Hirolikar</b>	<b>B190264393</b>
<b>Harshvardhan Kadam</b>	<b>B190264256</b>
<b>Ashutosh Joshi</b>	<b>B190264255</b>
<b>Akash Gore</b>	<b>B190264388</b>

is a bonafide student of this institute and the work has been carried out by him/her under the supervision of **Prof.N.V. Gawali** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering** (Computer Engineering).

**Prof.N.V. Gawali**  
Guide  
Department of Computer Engineering

**Dr. M.P. Borawake**  
Head  
Department of Computer Engineering

**Prof. A.A. Bamanikar**  
Project Coordinator

**External Examiner**

**Dr. R. V. Patil**  
Principal,

PDEA's College of Engineering Manjari (Bk.), Pune – 307

Place: Pune

Date: 31/05/24

**PDEA's COEM, Department of Computer Engineering 2023-24**



## CERTIFICATE

This is to certify that the project report entitles  
**AUTOMATED DOCUMENT VERIFICATION SYSTEM USING DIGITAL  
SIGNATURE AND OCR.**

STUDENT NAME :	Exam No :
1. Arati Jagdale	B190264204
2. Swaranjali Mule	B190264290
3. Navin Anand	B190264202
4. Chetan Badgujar	B190264208

is a bonafide student of this institute and the work has been carried out by him/her under the guidance of Prof.N.V.Gawali and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering** (Computer Engineering).

(Prof.N.V.Gawali)

Project Guide

Department of Computer Engineering

(Prof. Dr. M.P. Borawake)

H.O.D

Department of Computer Engineering

(Prof. A.A. Bamanikar)

Project Co-ordinator

Department of Computer Engineering

External Examiner

(Dr. R. V. Patil)

Principal

PDEA's College of Engineering Manjari (Bk), Pune -412307.

Place: Pune

Date: 31/01/24





## CERTIFICATE

This is to certify that the project report entitles

**“INTELLILOCK”**

Submitted by

STUDENT NAME

**AKSHATA KHAMITKAR**

**KANAK WASNIK**

**RUKHMINI WARE**

Exam No:

**B190264265**

**B190264347**

**B190264478**

is a bonafide student of this institute and the work has been carried out by him/her under the supervision of **Prof. M.P.Borawake** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering** (Computer Engineering).

**Prof. M.P. Borawake**

Guide

Department of Computer Engineering

**Dr. M.P. Borawake**

Head of Department

Department of Computer Engineering

**Prof. A.A. Bamanikar**

Project Coordinator

**External Examiner**

**Dr. R. V. Patil**

Principal,

PDEA's College of Engineering Manjari (Bk.), Pune – 307

Place: Pune

Date: 8/10/24

## SAVITRIBAI PHULE PUNE UNIVERSITY

2023-24



## CERTIFICATE

This is to certify that the project report entitles

**“AI POWERED E-LEARNING PLATFORM WITH INTERACTIVE GAMES”**

Submitted by

<b>AYUSH KUMAR SAHU</b>	<b>B190264206</b>
<b>SAKSHYAT PRADHAN</b>	<b>B190264309</b>
<b>SAURAV TRIPATHI</b>	<b>B190264312</b>
<b>AADIL SHAIKH</b>	<b>B190264313</b>

is a bonafide student of this institute and the work has been carried out by him/her under the guidance of **Dr. R V Patil** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering** (Computer Engineering).

**Dr. R V Patil**  
Guide

Department of Computer Engineering

**Dr. M.P. Borawake**  
HOD

Department of Computer Engineering

**Prof. A.A. Bamanikar**  
Project Coordinator

Department of Computer Engineering

**External Examiner**

**Dr. R. V. Patil**  
Principal,

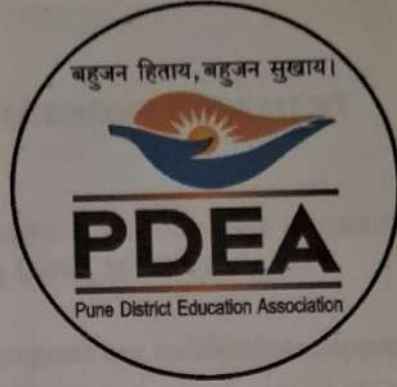
PDEA's College of Engineering Manjari (Bk.), Pune – 307

Place: Pune

Date: 27/10/24



2023-2024



**CERTIFICATE**

This is to certify that the project report entitles  
**Predictive Analysis for Equity Market Forecasting**

**Using ML Techniques**

**SUBMITTED BY**

**STUDENT NAME**

1. Ganesh Prakash Borkar
2. Akash Vishnu Gatkal
3. Ritesh Rajendra Mohite

**EXAM SEAT NO.**

- B190264220  
B190264240  
B190264286

is a Bonafide student of this institute and the work has been carried out by him/her under the supervision of **Prof. S.V. Shinde** and it is approved for the partial fulfilment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering** (Computer Engineering).

**Prof. S.V. Shinde**

Guide,

Department of Computer Engineering

**Dr. M.P. Borawake**

H.O.D

Department of Computer Engineering

**Prof. A.A. Bamanikar**  
Project Coordinator

**External Examiner**

**Dr. R. V. Patil**

Principal,

PDEA's College of Engineering Manjari (Bk.), Pune 412307

Place: Pune

Date: 31/05/24



## CERTIFICATE

This is to certify that the project report entitles

**“BLOCKCHAIN BASED E-VOTING SYSTEM”**

Submitted by

STUDENT NAME	Exam Seat No:
1. Bhor Sameer Gulab	B190264216
2. Bade Ravi Bandu	B190264207
3. Sahare Aniket Sahebrao	B190264308

is a Bonafide student at this institute and the work has been carried out by him/her under the supervision of **Dr. M.P.Borawake** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering** (Computer Engineering).

**Dr. M.P.Borawake**  
Guide

Department of Computer Engineering

**Dr. M.P.Borawake**  
Head,

Department of Computer Engineering

**Prof. A.A. Bamanikar**  
Project Coordinator

**External Examiner**

**Dr. R. V. Patil**  
Principal,

PDEA's College of Engineering Manjari (Bk.), Pune – 412307

Place: Pune

Date: 01/06/2024





## CERTIFICATE

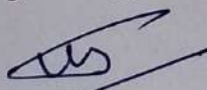
This is to certify that the project report entitles

### “DETECTION AND PREVENTION OF OBESITY AND OVERWEIGHT USING MACHINE LEARNING”

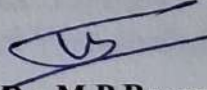
Submitted by

1. **Kshitij Barapatre** B190264210
2. **Juee Shelke** B190264316
3. **Abhishek Tavhare** B190264329
4. **Shravani Wandhekar** B190264345

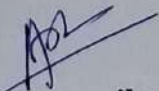
are bonafide students of this institute and the work has been carried out by him/her under the supervision of **Prof. M.P.Borawake** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering** (Computer Engineering).

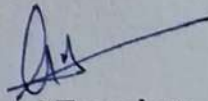
  
**Prof. M.P. Borawake**  
Guide

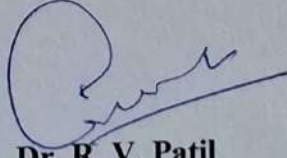
Department of Computer Engineering

  
**Dr. M.P. Borawake**  
Head,

Department of Computer Engineering

  
**Prof. A.A. Bamanikar**  
Project Co-ordinator

  
External Examiner

  
**Dr. R. V. Patil**  
Principal,

PDEA's College of Engineering Manjari (Bk.), Pune – 307

Place: Pune

Date: 01/06/24



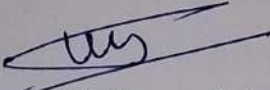
## CERTIFICATE

This is to certify that the project report entitles

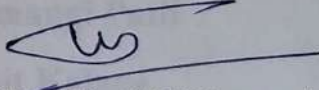
### MILK QUALITY PREDICTION AND YOGHURT FERMENTATION ANALYSIS USING ML

STUDENT NAME	EXAM SEAT NO
SANKET PANMAND	B190264297
SAKSHI MALAVE	B190264279
HEMANGI PATIL	B190264301
SUJIT KALANE	B190264257


is a bonafide student of this institute and the work has been carried out by him/his under the guidance of Prof.M.P.Borawake and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of Bachelor of Engineering (Computer Engineering).

  
(Prof. M.P. Borawake)  
Project Guide

Department of Computer Engineering

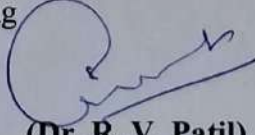
  
(Prof. Dr. M.P. Borawake)  
H.O.D

Department of Computer Engineering

  
(Prof. A.A. Bamanikar)  
Project Co-ordinator

Department of Computer Engineering

  
External Examiner

  
(Dr. R. V. Patil)  
Principal

PDEA's College of Engineering, Manjari (Bk), Pune-412307

Place: Pune

Date: 31/01/24





## CERTIFICATE

This is to certify that the project report entitles

### **FITNESS WEB APPLICATION FOR PERSONALIZED WORKOUT PLANS AND NUTRITION GUIDANCE**

1. Akshay Kalushe	B190264259
2. Sagar Jagwal	B190264253
3. Dnyaneshwari Gund	B190264241
4. Dhanshri Jagtap	B190264234

is a bonafide student of this institute and the work has been carried out by him/her under the guidance of Prof. A.A. Bamanikar and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering** (Computer Engineering).

(Prof. A.A. Bamanikar)

Project Guide

Department of Computer Engineering

(Dr. M.P. Borawake)

H.O.D,

Department of Computer Engineering

(Prof. A.A. Bamanikar)

Project Co-ordinator

Department of Computer Engineering

External Examiner

(Dr. R. V. Patil)

Principal

PDEA's College of Engineering Manjari (Bk), Pune -412307

Place : Pune

Date : 3/6/24



## CERTIFICATE

This is to certify that the project report entitles

**“LOCATION AWARE SYSTEM FOR REAL-TIME PUBLIC TRANSPORT ANALYSIS  
USING MACHINE LEARNING”**

Submitted by

STUDENT NAME	Exam No
<b>YUVARAJ KATE</b>	<b>B190264263</b>
<b>PRABAL GADE</b>	<b>B190264237</b>
<b>ATHARVA GURAV</b>	<b>B190264242</b>

is a bonafide student of this institute and the work has been carried out by him/her under the supervision of **Prof. S.V.SHINDE** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering** (Computer Engineering).

**Prof. S.V.SHINDE**  
Guide

Department of Computer Engineering

**Dr. M.P.Borawake**  
Head,

Department of Computer Engineering

**Prof. A.A. Bamanikar**  
Project Cordinator

**External Examiner**

**Dr. R. V. Patil**  
Principal,

PDEA's College of Engineering Manjari (Bk.), Pune – 307

Place: Pune

Date: 31/07/24



Pune District Education Association's  
**COLLEGE OF ENGINEERING**  
Manjari (Bk.), Pune-412307

**CERTIFICATE**

This is to certify that the project report entitled

**“SOLAR WIRELESS ELECTRIC  
VEHICLE CHARGING SYSTEM”**

Submitted by

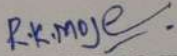
**SHREYA BABAR**

**B190263002**

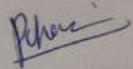
**JANHAVI PAWAR**

**B190263020**

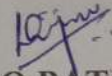
is a record of bonafide work carried out by them, under the guidance of *Dr. R.K. MOJE* and is approved for partial fulfillment of the requirement for the award of the Final Year Bachelor of Engineering (Electronics and Telecommunication Engineering) of **Savitribai Phule Pune University** for academic year 2023-2024.



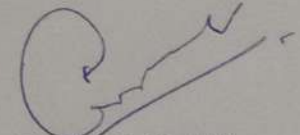
**Dr. R.K. MOJE**  
(Project Guide)



**External Examiner**



**Dr. D.O. PATIL**  
(Project Coordinator)



**(Dr. R.V. Patil)**  
Principal

Date:

सत्यमेव जयते



Pune District Education Association's  
COLLEGE OF ENGINEERING



Manjari (Bk.), Pune-412307

### CERTIFICATE

This is to certify that the project report entitled

**'MI Based E Ration Dispensing System Using Raspberry Pi'**

Submitted by

Radhika R. Ovhal

B190263001

Sagar D. Chaturvedi

B190263003

Sakshi T. Kamble

B190263011

is a record of bonafide work carried out by them, under the guidance of Prof. S.M.Bankar and is approved for partial fulfillment of the requirement for the award of the Final Year Bachelor of Engineering (Electronics & Telecommunication Engineering) of Savitribai Phule Pune University for academic year 2023-2024.

Prof. S.M.Bankar  
(Project Guide)

Prof. D.O.PATIL  
(Head Of Department)

External Examiner

Principal  
(PDEA's COE Manjari (Bk))

Date:-

Place:-





(YEAR 2023-2024)  
Pune District Education Association's  
COLLEGE OF ENGINEERING  
Manjari(Bk.),Pune-412307



**CERTIFICATE**

This is to certify that the project report entitles

**“PERSONAL AI COMPANION USING IOT INTEGRATED WITH  
CHAT-GPT”**

Submitted by

1. Jaya Dhakane B190263004
2. Samidha Ghule B190263007
3. Meenal Suryawanshi B190263026

is a Bonafide student of this institute and the work has been carried out by him/her under the guidance of Prof.R.M.Sahu and it is approved for the fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering** (Electronic & Telecommunication Engineering).

(PROF. R.M. Sahu)  
Guide

(Dr. D. O. Patil)  
H.O.D.

(Dr. R. V. Patil)  
Principal

Place : Pune

Date :

25/10/2024  
External Examiner



**Pune District Education Association's COLLEGE  
OF ENGINEERING  
Manjari (Bk.), Pune-412307**

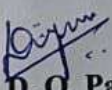
**CERTIFICATE**

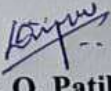
This is to certify that the project report entitled  
**POTHOLE DETECTION AND FILLING  
ROBOT**

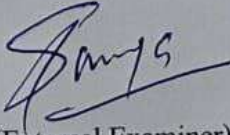
**SUBMITTED BY**

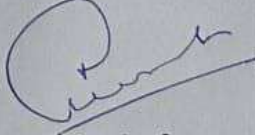
- |                         |                   |
|-------------------------|-------------------|
| <b>1.ROHAN DHORMARE</b> | <b>B190263005</b> |
| <b>2.ROHAN KAMBLE</b>   | <b>B190263010</b> |
| <b>3.ADITYA PATIL</b>   | <b>B190263018</b> |

This is a record of bonafide work carried out by them, under the guidance of Dr. D.O.Patil and is approved for partial fulfillment of the requirement for the award of the Final Year Bachelor of Engineering (Electronics & Telecommunication Engineering) of Savitribai Phule Pune University for academic year 2023-2024.

  
**Dr. D. O. Patil**  
(Project Guide)

  
**Dr. D. O. Patil**  
(Head Of Department)

  
(External Examiner)

  
**Principal**  
(PDEA's COE Manjari (Bk))

**Date:**



**Pune District Education Association's  
COLLEGE OF ENGINEERING  
Manjari (Bk.), Pune-412307**

**CERTIFICATE**

This is to certify that the project report entitled

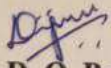
**“TRANSLATING HANDWRITTEN  
DOCUMENT INTO DIGITAL TEXT  
USING DEEP LEARNING APPROACH ”**

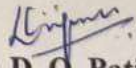
”

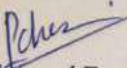
Submitted by

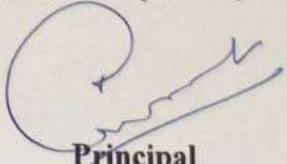
<b>RAMESHWAR D. FULARI</b>	<b>B190263006</b>
<b>VIDYA S. KUMBHAR</b>	<b>B190263013</b>
<b>SAMEEKSHA S. SABLE</b>	<b>B190263022</b>

is a record of bonafide work carried out by them, under the guidance of *Dr. D.O.Patil* and is approved for partial fulfillment of the requirement for the award of the Final Year Bachelor of Engineering (Electronics & Telecommunication Engineering) of **Savitribai Phule Pune University** for academic year 2023-2024.

  
**Dr. D. O. Patil**  
(Project Guide)

  
**Dr. D. O. Patil**  
(Head Of Department)

  
(External Examiner)

  
**Principal**  
(PDEA's COE Manjari (Bk))

Date:

Principal  
Pune District Education Association's  
College of Engineering, Manjari (Bk.),  
Pune - 412307.

**Pune District Education Association's  
COLLEGE OF ENGINEERING  
Manjari (Bk.), Pune-412307**

**CERTIFICATE**

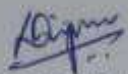
This is to certify that the project report entitled  
**"NOAA SATELLITE IMAGE RECEPTION  
USING QFH ANTENNA"**

Submitted by

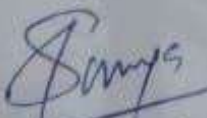
<b>ANKITA M KADAM</b>	<b>B120263009</b>
<b>TEJASWI B SONAWANE</b>	<b>B190263024</b>
<b>SRUSHTI B WALHEKAR</b>	<b>B190263028</b>

is a record of bonafide work carried out by them, under the guidance of *Prof. S. B. Kamble* and is approved for partial fulfillment of the requirement for the award of the Final Year Bachelor of Engineering (Electronics & Telecommunication Engineering) of **Savitribai Phule Pune University** for academic year 2023-2024.

  
**Prof. S. B. Kamble**  
(Project Guide)

  
**Dr. D. O. Patil**  
(Head Of Department)

  
**Principal**  
(PDEA's COE Manjari (Bk))

  
(External Examiner)

**Date:**



Pune District Education Association's  
**COLLEGE OF ENGINEERING**

Manjari (Bk.), Pune-412307

**CERTIFICATE**

This is to certify that the project report entitled


**"IOT BASED SMART BLIND STICK USING SOS PROVIDING SYSTEM"**

Submitted by

CHAITALI H. KHADKE	B190263011
SAKSHI N. NIGHOT	B190263015
TANUJA D. WAVADHANE	B190263029

is a record of bonafide work carried out by them, under the guidance of Prof. R.K.MOJE and is approved for partial fulfillment of the requirement for the award of the Final Year Bachelor of Engineering (Electronics & Telecommunication Engineering) of Savitribai Phule Pune University for academic year 2023-2024.

  
Prof. R.K.MOJE  
(Project Guide)

  
External Examiner

  
Prof. D.O.PATIL  
(Head Of Department)

  
Principal  
(PDEA's COE Manjari (Bk))

Date:

Principal  
Pune District Education Association's  
College of Engineering, Manjari (Bk.),  
Pune - 412307.

## CERTIFICATE

This is to certify that the project report entitled

### SMART PYRO MACHINE

Submitted by

STUDENT NAME

SEAT NUMBER

TULSI MAHESH LOHARE

B190263015


VAISHNAVI SUHAS PATIL

B190263019

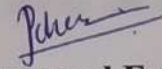
KETAN KAILAS TODKARI

B190263027

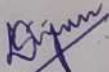
is a record of bonafide work carried out by them, under the guidance of Prof. S. M. Bankar and is approved for partial fulfillment of the requirement for the award of the Final Year Bachelor of Engineering (Electronics and Telecommunication Engineering) of Savitribai Phule Pune University for academic year 2023-2024.



**Prof. S.M. Bankar**  
(Project Guide)



**External Examiner**



**Dr. D.O. Patil**  
(Head Of Department)



**Dr. R. V. Patil**  
Principal

Date:

Place: Pune





## CERTIFICATE

This is to certify that the project report entitles

**“Surveillance And Disaster Relief Drone”**

Student Name:

Exam Seat No:

- |                    |            |
|--------------------|------------|
| 1. Shubham Pawar   | B190263021 |
| 2. Vishal Shirfule | B190263023 |
| 3. Ravi Survase    | B190263025 |

is a Bonafide student of this institute and the work has been carried out by him/her under the guidance of Prof.R.M.Sahu and it is approved for the fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering** (Electronic & Telecommunication Engineering).

(PROF. R.M. Sahu)  
Guide

(Dr. D. O. Patil)  
H.O.D.

(Dr. R.V. Patil)  
Principal

Place : Pune

Date :

  
External Examiner



**Pune District Education Association's  
COLLEGE OF ENGINEERING**

**Manjari (Bk.), Pune-412307**

**CERTIFICATE**

This is to certify that the project report entitled

**“SMART GLOVE USING FLEX SENSOR”**

Submitted by

**DHANYA SHETTY**

**B120263051**

**POOJA MOTIRAVE**

**B190263016**

is a record of bonafide work carried out by them, under the guidance of *Prof. S. B. Kamble* and is approved for partial fulfillment of the requirement for the award of the Final Year Bachelor of Engineering (Electronics & Telecommunication Engineering) of **Savitribai Phule Pune University** for academic year 2023-2024.

**Prof. S. B. Kamble**  
(Project Guide)

**Dr. D. O. Patil**  
(Head Of Department)

**Principal**  
(PDEA's COE Manjari (Bk))

(External Examiner)

Date:





## CERTIFICATE

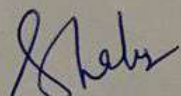
This is to certify that the project entitled “CNC based Automated Writing and Drawing machine for complicated 2D structures.” being submitted by

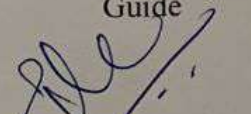
Anuradha Arekar	B190268503
Pratik Bhoskar	B190268510
Devika Swami	B190268557
Lalit Thipe	B190268562
Udayraj Hume	B190268563


is a record of bonafide work carried out by them under the supervision of **Prof. Shalu Sarasvat** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University for the award of the Degree of Bachelor of Engineering (Information Technology).

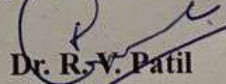
Date:

Place: Manjari (Bk.), Pune

  
Prof. Shalu Sarasvat  
Guide

  
External Examiner

  
Head of Dept.  
Prof. Dipali Hirolikar  
Department of Information Technology  
Head of Department  
P.D.E.A.'s College of Engineering  
Manjari (BK)-412307

  
Dr. R.V. Patil  
Principal

---

This project report has not been earlier submitted to any other Institute or University for the award of any degree or diploma.




## CERTIFICATE

This is to certify that Project Report Entitled  
"TROPICAL CYCLONE FORECASTING"

Submitted By

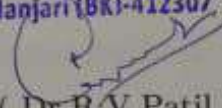
Mule Gita	Exam No: B190268603
Nighot Ayush	Exam No: B190268538
Rakshe Sanket	Exam No: B190268548
Raul Aakanksha	Exam No: B190268550
Takalkar Abhishek	Exam No: B190268559

are bonafide students of this institute and the work has been carried out by them under the supervision of **Prof.R.M.Kawale** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering in Information Technology Engineering**.

  
(Prof.R.M.Kawale)  
Internal Guide  
Dept. of Info.Tech. Engg.

  
External Examiner  
Date: 11/12/24

  
(Dr.D.S.Hirolikar )  
Head of Dept.  
Department of Information Technology  
P.D.E.A.'s College of Engineering  
Manjari (BK)-412307

  
( Dr.R.V.Patil )  
Principal,  
PDEA's COEM, Manjari,Pune

Place: Manjari, Pune.

Date: 01/06/2024

2024/6/4 17:37





## CERTIFICATE

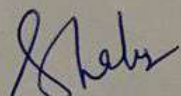
This is to certify that the project entitled “CNC based Automated Writing and Drawing machine for complicated 2D structures.” being submitted by

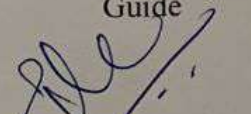
Anuradha Arekar	B190268503
Pratik Bhoskar	B190268510
Devika Swami	B190268557
Lalit Thipe	B190268562
Udayraj Hume	B190268563


is a record of bonafide work carried out by them under the supervision of **Prof. Shalu Sarasvat** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University for the award of the Degree of Bachelor of Engineering (Information Technology).

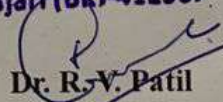
Date:

Place: Manjari (Bk.), Pune

  
Prof. Shalu Sarasvat  
Guide

  
External Examiner

  
Head of Dept.  
Prof. Dipali Hirolikar  
Department of Information Technology  
Head of Department  
P.D.E.A.'s College of Engineering  
Manjari (BK)-412307

  
Dr. R.V. Patil  
Principal

---

This project report has not been earlier submitted to any other Institute or University for the award of any degree or diploma.



## CERTIFICATE

This is to certify that the project report entitled

**“An AI-Based Medical Chatbot for Infectious Diseases Prediction.”**


Submitted By


Student Name	Exam Seat No
Omkar Biradar	B190268511
Manisha Kale	B190268530
Vikas Kokate	B190268531
Sanket Tahakik	B190268558
Aniket zaware	B190268568


is a record of bonafide work carried out by his under the supervision and guidance of **Prof. A. B. Gadewar** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University for the award of the Degree of **Bachelor of Engineering (Information Technology) 2019 Course**, Pune in the academic year 2023-2024.

Date :-

Place :- **Manjari (Bk.), Pune**

  
**Prof. A. B. Gadewar**  
Guide

  
**Dr. R. V. Patil**  
Principal

  
**DR. D. S. Hirolikar**  
Head of the Department

**Head of Dept.**  
**Department of Information Technology,**  
**P.D.E.A.'s College of Engineering**  
**Manjari (Bk.), Pune**

This Project Based report has been examined by us as per the Savitribai Phule Pune University, Pune requirements at PDEA's College of Engineering, Manjari (Bk.), Pune - 412 307 on .....

  
Internal Examiner

  
External Examiner





## CERTIFICATE

This is to certify that the Project report entitled  
"Automatic Drug Pills Recognition System for Partially Impaired Chronic Patients Based on  
CNN And Artificial Intelligence"

Submitted by

Student Name	Exam Seat No.
Shreya Gaikwad	B190268519
Sakshi Gujarathi	B190268521
Siddham Kalamkar	B190268529
Harshal Patil	B190268543
Pooja Merguwar	B190268546

is a bonafide work carried out by him/her under the supervision and guidance of Prof. Deepali Hirolkar in partial fulfilment of the requirement for BE (Information Technology Engineering) – 2019 course of Savitribai Phule Pune University, Pune in the academic year 2023-24

Date:


  
Dr. D. S. Hirolkar

Guide

Dr. R. V. Patil

Principal

Place: Manjari, Pune

  
Dr. D. S. Hirolkar  
Head of Dept.  
Department of Information Technology  
Head of Department  
P.D.E.A.'s College of Engineering  
Manjari (8K1-412307)

This Project Based report has been examined by us as per the Savitribai Phule Pune University, Pune, requirements at PDEA's College of Engineering on .....

Internal Examiner

External Examiner



## CERTIFICATE

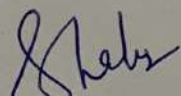
This is to certify that the project entitled “CNC based Automated Writing and Drawing machine for complicated 2D structures.” being submitted by

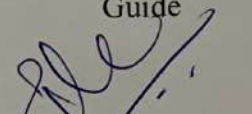
<b>Anuradha Arekar</b>	<b>B190268503</b>
<b>Pratik Bhoskar</b>	<b>B190268510</b>
<b>Devika Swami</b>	<b>B190268557</b>
<b>Lalit Thipe</b>	<b>B190268562</b>
<b>Udayraj Hume</b>	<b>B190268563</b>

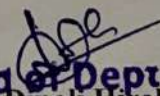
is a record of bonafide work carried out by them under the supervision of **Prof. Shalu Sarasvat** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University for the award of the Degree of Bachelor of Engineering (Information Technology).

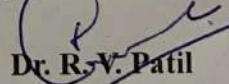
Date:

Place: Manjari (Bk.), Pune

  
**Prof. Shalu Sarasvat**  
Guide

  
External Examiner

  
**Head of Dept.**  
**Prof. Dipali Hirolikar**  
**Department of Information Technology**  
**Head of Department**  
**P.D.E.A.'s College of Engineering**  
**Manjari (BK)-412307**

  
**Dr. R.V. Patil**  
Principal

---

This project report has not been earlier submitted to any other Institute or University for the award of any degree or diploma.





## CERTIFICATE

This is to certify that the Project report entitled

**“Automatic Drug Pills Recognition System for Partially Impaired Chronic Patients Based on CNN And Artificial Intelligence”**

Submitted by

Student Name	Exam Seat No.
Shreya Gaikwad	B190268519
Sakshi Gujarathi	B190268521
Siddhant Kalamkar	B190268529
Harshal Patil	B190268543
Pooja Merguwar	B190268546

is a bonafide work carried out by him/her under the supervision and guidance of **Prof. Deepali Hirolikar** in partial fulfilment of the requirement for **BE (Information Technology Engineering) – 2019 course** of Savitribai Phule Pune University, Pune in the academic year 2023-24

Date:

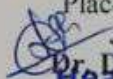
  
Dr. D. S. Hirolikar

Guide

Dr. R. V. Patil

Principal

Place: Manjari, Pune

  
Dr. D. S. Hirolikar  
**Head of Dept.**  
Department of Information Technology  
Head of Department  
P.D.E.A.'s College of Engineering  
Manjari (BK)-412307

This Project Based report has been examined by us as per the Savitribai Phule Pune University, Pune, requirements at PDEA's College of Engineering on .....

Internal Examiner

External Examiner



## CERTIFICATE

This is to certify that the Project report entitled "**Andriod Based Staff Attendance System Using Geo-Fence Technique**" being submitted by

**Palash Doijad**

(Seat No:B190268516)

**Shreyash Koppa**

(Seat No:B190268532)

**Sayali Musale**

(Seat No:B190268535)

**Abhishek Rathod**

(Seat No:B190268549)

**Rajnandini Shinde**

(Seat No:B190268555)

is a record of bonafide work carried out by her under the supervision and guidance of **Prof. R. M. Kawale** in partial fulfillment of the requirement for **BE (Information Technology) 2019 Course** of Savitribai Phule Pune University, Pune in the academic year 2023-2024.


Date:01/06/2024

Place:Manjari (Bk.), Pune

  
**Prof. R. M. Kawale**

Co-Ordinator and Guide

  
External Examiner

  
**Head of Dept.**  
Department of Information Technology  
P.D.E.A.'s College of Engineering  
Head of the Department  
Manjari (Bk.), Pune

**Dr. R. V. Patil**

Principal

---

This project report has not been earlier submitted to any other Institute or University for the award of any degree or diploma.



## CERTIFICATE

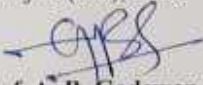
This is to certify that the project entitled "Cryptocurrency Price Forecasting and Risk Management through Machine Learning Model with Support Vector Machine." being submitted by


Saipanmulook Mulla	72145953G
Aman Bhandekar	72289771F
Akash Dhangarmali	72289774L
Ketan Patil	72146036E
Kunal Warade	72289776G


is a record of bonafide work carried out by them under the supervision of **Prof. A. B. Gadewar** and it is approved for the partial fulfilment of the requirement of Savitribai Phule Pune University for the award of the Degree of Bachelor of Engineering (Information Technology)

Date:

Place: Manjari (Bk.), Pune

  
**Prof. A. B. Gadewar**  
Guide

  
External Examiner

  
**Dr. R. V. Patil**  
Principal

  
**Head of Dept.**  
Department of Information Technology  
H.O.D.I.T Dept.  
P.D.E.A.'s College of Engineering  
Manjari (Bk.)-412307

**Prof. R. M. Kawale**  
Project Coordinator

---

This project report has not been earlier submitted to any other Institute or University for the award of any degree or diploma.





## CERTIFICATE

This is to certify that the Project Entitled "Land Classification On Satellite Images By Using CNN"


Submitted by


Student Name	Exam Seat No
Akash Waman	B190268565
Omkar Mankar	B190268533
Parag Shelke	B190268542


is a bonafide work carried out by his under the supervision and guidance of **Prof.Dr.D.S.Hirolikar** in partial fulfillment of the requirement for **BE (Information Technology) 2019 Course** of Savitribai Phule Pune University, Pune in the academic year **2023-2024**.

Date :-


Place :- Manjari (BK), Pune

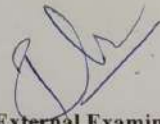
  
Dr. D. S. Hirolikar  
Internal Guide

  
Dr. R. V. Patil  
Principal

  
Dr. D. S. Hirolikar  
H.O.D.  
Head of Dept.  
Department of Information Technology  
P.D.E.A.'s College of Engineering  
Manjari (BK)-412307

This Project Based report has been examined by us as per the Savitribai Phule Pune University, Pune requirements at PDEA's College of Engineering, Manjari (Bk.), Pune - 412 307 on .....

  
Internal examiner

  
External Examiner



## CERTIFICATE

This is to certify that the project entitled "IOT Based Driver Drowsiness and Alcohol/Smoke Detection System Using Deep Learning Algorithm." being submitted by


Ashutosh Bhoite  
Aparna Gavhane  
Aditya Sasne

B190268509  
B190268520  
B190268552

is a record of bonafide work carried out by them under the supervision of Prof. S. Saraswat and it is approved for the partial fulfilment of the requirement of Savitribai Phule Pune University for the award of the Degree of Bachelor of Engineering (Information Technology)

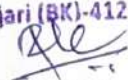
Date:


Place: Manjari (Bk.), Pune

  
Prof. S. Saraswat  
Guide

  
External Examiner

  
Head of Dept.  
Department of Information Technology  
P.D.E.A. College of Engineering  
Manjari (BK)-412307

  
Prof. R. M. Kawale  
Project Coordinator

  
Dr. R. V. Patil  
Principal

---

This project report has not been earlier submitted to any other Institute or University for the award of any degree or diploma.



## CERTIFICATE

This is to certify that the Project Entitled “**Deep Learning Based Online Smart Voting Using Facial Recognition and Fingerprint Detection**”

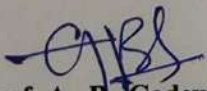
Submitted by


Student Name	Exam Seat No
Mahadev Najan	B190268536
Akanksha Nelwade	B190268537
Shubham Bendkhale	B190268506
Sanket Chaudhar	B190268513


is a bonafide work carried out by his under the supervision and guidance of **Prof. A. B. Gadewar** in partial fulfillment of the requirement for **BE (Information Technology) 2019 Course** of Savitribai Phule Pune University, Pune in the academic year **2023-2024**.

**Date :-**

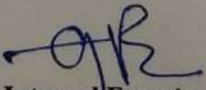
**Place :-** Manjari (BK), Pune

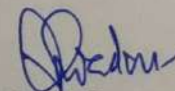
  
**Prof. A. B. Gadewar**  
Internal Guide

  
**Dr. R. V. Patil**  
Principal

  
**Dr. D. S. Hirolikar**  
H.O.D.  
**Head of Dept.**  
Department of Information Technology  
P.D.E.A.'s College of Engineering  
Manjari (BK)-412307

This Project Based report has been examined by us as per the Savitribai Phule Pune University, Pune requirements at PDEA's College of Engineering, Manjari (Bk.), Pune - 412 307 on .....

  
Internal Examiner

  
External Examiner





## CERTIFICATE

This is to certify that the Project Entitled “**Land Classification On Satellite Images By Using CNN**”


Submitted by

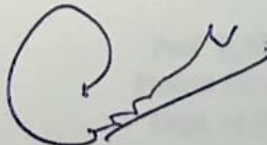
Student Name	Exam Seat No
Akash Waman	B190268565
Omkar Mankar	B190268533
Parag Shelke	B190268542

is a bonafide work carried out by his under the supervision and guidance of **Prof.Dr.D.S.Hirolikar** in partial fulfillment of the requirement for **BE (Information Technology) 2019 Course** of Savitribai Phule Pune University, Pune in the academic year **2023-2024**.

Date :-

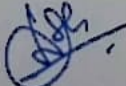

Place :- Manjari (BK), Pune

  
**Dr.D.S.Hirolikar**  
Internal Guide

  
**Dr. R. V. Patil**  
Principal

  
**Dr. D. S. Hirolikar**  
H.O.D  
**Head of Dept.**  
Department of Information Technology  
P.D.E.A.'s College of Engineering  
Manjari (BK)-412307

This Project Based report has been examined by us as per the Savitribai Phule Pune University, Pune requirements at PDEA's College of Engineering, Manjari (Bk.), Pune - 412 307 on .....

  
  
**Internal examiner**

**External Examiner**



## CERTIFICATE

This is to certify that the project report entitled

**“An AI-Based Medical Chatbot for Infectious Diseases Prediction.”**


Submitted By


Student Name	Exam Seat No
Omkar Biradar	B190268511
Manisha Kale	B190268530
Vikas Kokate	B190268531
Sanket Tahakik	B190268558
Aniket zaware	B190268568


is a record of bonafide work carried out by his under the supervision and guidance of Prof. A. B. Gadewar and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University for the award of the Degree of **Bachelor of Engineering (Information Technology) 2019 Course**, Pune in the academic year 2023-2024.

Date :-

Place :- Manjari (Bk.), Pune

  
Prof. A. B. Gadewar  
Guide

  
Dr. R. V. Patil  
Principal

  
DR. D. S. Hirolikar  
Head of the Department

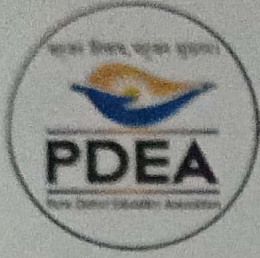
**Head of Dept.**  
**Department of Information Technology**  
**P.D.E.A.'s College of Engineering**  
**Savitribai Phule Pune**  
**Manjari (Bk.) - 412307**

This Project Based report has been examined by us as per the Savitribai Phule Pune University, Pune requirements at PDEA's College of Engineering, Manjari (Bk.), Pune - 412307 on .....

  
Internal Examiner

  
External Examiner





Pune District Education Association's  
**College of Engineering**  
 Manjari (BK), Pune



## CERTIFICATE

This is to certify that

<b>Miss. Aditi Bhausaheb Pawar</b>	<b>B190260824</b>
<b>Mr. Ashraf Asif Sayyed</b>	<b>B190260831</b>
<b>Mr. Chetan Ravindra Sabale</b>	<b>B190260827</b>

have successfully completed the project "Automatic Hydrotest Unit For Heat Exchanger" Sponsored by Eagleburgmann India pvt.ltd under the supervision, in the partial fulfilment of Bachelor of Engineering-Mechanical Engineering, of Savitribai Phule Pune University, Pune.

Date: 18/04/2024

Place: Pune

**Dr. S. A. Patil**  
Academic Guide

**Prof. G. N. Jagdale**  
Academic Co-Guide

**External Examiner**



**Mr. Yogesh Kumar Swain**  
Manager-Production

**Mr. Inder Mohan Singh**  
HOD Production

**Dr. S. A. Patil**  
Head of Department  
Head of Department  
Department of Mechanical Engineering,  
PDEA's College of Engineering  
Manjari (BK), Pune-412307

**Dr. R. V. Patil**  
Principal  
Pune District Education Association's  
College of Engineering, Manjari (BK),  
Pune - 412307.





Department of Mechanical Engineering,  
Pune District Education Association's  
College of Engineering, Manjari (Bk), Pune  
[2023-2024]

Pune District Education Association's  
College of Engineering, Manjari (Bk), Pune



## CERTIFICATE

This is to certify that

Mr. Anand Abhiman Kamble	B190260812
Mr. Prajwal Bibhishan Kumbhar	B190260816
Mr. Akshay Ganesh More	B190260817
Mr. Jay Pramod Nagpure	B190260818

have successfully completed the project stage-II entitled "**PICK AND PLACE MACHINE**"  
Sponsored by EagleBurgmann pvt.ltd under my supervision, in the partial fulfilment of Bachelor  
of Engineering-Mechanical Engineering, of Savitribai Phule Pune University, Pune.

Date:

  
Prof. R.Y. PAWAR

Guide

  
Prof. N.A. KUMBHAR

Internal Guide

  
External Examiner

  
Dr. S.A. Patil

Head Of Department

  
Dr. R.V. Patil

Principal

Pune District Education Association's  
College of Engineering, Manjari (Bk),  
Pune - 412307.

Pune District Education Association's  
**College of Engineering, Manjari (Bk), Pune**



## CERTIFICATE

This is to certify that

Mr. Abid Hussain Bhat	B190260801
Mr. Ganesh Amol Bhanage	B190260803
Mr. Gaurav Jaysingh Chauhan	B190260805

has successfully completed the project stage-II entitled "Solar Harvest Grass Master Harnessing Sunlight To Cultivate a Greener Future" under my supervision, in the partial fulfillment of Bachelor of Engineering-Mechanical Engineering, of Savitribai Phule Pune University, Pune.

Date: 31/05/24

Place: Manjari

  
Guide

  
External Examiner

Prof. A.V. Dumbre

  
31/5/24

Head of Department

Dr. S. A. Patil

  
Principal

Dr. R.V. Patil

Principal

Pune District Education Association's  
College of Engineering, Manjari (Bk.),  
Phone: 412307.