P.D.E.A.'S COLLEGE OF ENGINEERING



CERTIFICATE

This is to certify that the project titled

"TACTICAL SAFETY SPYING ROBOT"

Has been completed by

- 1) Mr. KALBHOR VINAYAK SANTOSH (B150260820)
- 2) Mr. CHAUDHARI AADESH JIVAN (B150260806)
- 3) Mr. PATIL ROHAN RAJENDRA (B150260832)
- 4) Mr. POTDAR DINESH VIJAY (B150260838)

under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of "SAVITRIBAI PHULE PUNE UNIVERSITY".

Date: 31.05.2022

Place: Manjari Bk Pune

Prof.R.Y.Pawar

Guide (Internal examiner)

Prof. S.A.Patil

Head of the Department

External Examiner

Prof. R.V.Patil

Principal

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



CERTIFICATE

This is to certify that

Mr. Sumedh Kharat B150260824 Mr. Kumar Thorat B150260853 Mr. Shreekrishna Nagargoje B150260828 Mr. Akshay Kachane B150260823

Have been successfully completed the project stage-II entitled "SOUND ENERGY IN TO ELETRCIAL ENERGY" under my supervision, in the partial fulfillment of Bachelor of Mechanical Engineering, of Savitribai Phule Pune University, Pune.

Date:

Place: Pune

Guide / Dr. S. A. Patil

Head of Department

Dr. S. A. Patil

Internal Examiner

Principal

DR. R. V. Patil

Pune District Education Association is

External Examinenege of Engineering to

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



CERTIFICATE

This is to certify that

Mr.Chikane Vaibhav Vilas

B150260809

Mr.Shelke Sanket Nandkishor

B150260848

Mr.Bhujbal Nikhil Dattatraya

B150260805

Mr.Jadhav Yogesh Madhukar

B150260818

Have successfully completed the project successfully entitled "Design and Fabrication of Bladeless Windmill for Power Generation" under my supervision, in the partial fulfillment of Bachelor of Engineering-Mechanical Engineering, of Savitribai Phule Pune University.

Date:

Place:

Guide

Dr. S.A.PATIL

Head of Department

Dr. S.A.PATIL

External Examiner

Principal

Dr. R.V.Patil

Principal une District f. dat. at. at. a. sociation ollege of Englishment Marian . Av.

Plane - 4 Powar

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



CERTIFICATE

This is to certify that

B150260807 MR. GITARAM CHAUDHARI

B150260837 MR. AJINKYA PHARATE

B150260843 MR. KRUSHNAKANT SATAV

B150260845 MR. UTTRESHWAR SAWANT

Have successfully completed the project stage-II entitled "INTELLIGENT BRAKING SYSYEM" under my supervision, in the partial fulfillment of Bachelor Mechanical Engineering, of Savitribai Phule Pune University, Pune.

Date:

Place:

Dr. S. A. Patil

Head of Department

Dr. S. A. Patil

DR. R. V. Patil

External Examiner

Pune - 412307

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



CERTIFICATE

This is to certify those

Mr. Pramod Tupare	B150260855
Mr. Hrutik Harale	B150260815
Mr. Rushikesh Gole	B150260813
Mr. Sachin Ghuge	B150260812
Mr. Kiran Sonawane	B150260851

Have successfully completed the project stage-II entitled "Development of Resin Levelling and Settling Mechanism for Additive Manufacturing" under my supervision, in the partial fulfillment of Bachelor Mechanical Engineering, of Savitribai Phule Pune University, Pune.

Date: \8/06/2022

Place: Pune

Guide Prof. B. K. Suryatal

Head of Department Dr. S. A. Patil Internal Examiner

Principal DR. R. V. Patil

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

External Examiner

Pune - 412307

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



CERTIFICATE

This is to certify that

Mr. Suraj G. Dhere B150260811

Mr. Roshan R. Patil B150260833

Mr.Amol V. Nandram B150260829

Mr. Uday N. Pawar B150260836

Have successfully completed the project stage-II entitled "Design and Manufacturing of Automatic Drainage Cleaner Machine" under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering, of Savitribai Phule Pune University.

Date:

Place: Pune.

Prof. A. V. Dumbre

Guide

Head of Department

Internal Examiner

Principal

Pune District Education Association's College of Engineering Margan (Bk.).

External Examiner

Pune District Education Association's

College of Engineering, Manjari (Bk), Pune



CERTIFICATE

This is to certify that

Miss.Mansi.S.Sawant

B150260844

Mr.Swapnil.S.Hilal

B150260817

Mr. Sanket .N. Gadhave

B150260841

Have successfully completed the project stage-II entitled "Design And Manufacturing Of Crop Cutting Machine" under my supervision, in the partial fulfilment of Bachelor Mechanical Engineering, of Savitribai Phule Pune University, Pune.

Date:

Place:

Guide

Prof. A. V. DUMBRE

Head of Department

Dr. S. A. Patil

Internal Examiner

Principal

DR. R. V. Patil

Pune District Language (Bk.), College of Englisherm (Bk.),

Pune - 412201



This is to certify that the project report entitled

"ALCOHOL SENSING ALERT WITH IGNITION LOCKING SYSTEM"

Submitted by

HARSH CHAUDHARI. HEMPUSHPA. AKASH PATIL. PAPPURAJA PRASAD.

Exam Seat No : B150260808 Exam Seat No : B150260816 Exam Seat No : B150260830 Exam Seat No : B150260839

is a bonafide student of this institute and the work has been carried out by them under the supervision of Prof. N. A. Kumbhar 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 (Mechanical Engineering).

(Prof. N. A. Kumbhar)
Project Guide. Department of
Mechanical Engineering

(Dr. S. A. Patil)
Head of Mechanical Department
PDEA College of Engineering.
Manjari

C. Saraha Shiringan in Cont. Shiring Shiringan are served to the Day Plane of Tree. (Dr. R. V. Patil)
Principal
PDEA College of
Engineering, Manjari

Principal Pune District Education Association College of Engineering Manjan dis-Pune - 412307

Pune District Education Association's

College of Engineering, Manjari (Bk), Pune



CERTIFICATE

This is to certify that

Mr.Rupesh Sampat Bhondave

B150260803

Mr. Prathamesh Shivnath Jadhav

B150260819

Mr. Mayur Madhukar Patil

B150260831

Mr. Omkar Rajendra Shinde

B150260849

Have successfully completed the project stage-II entitled "Vehicle Extraction Device" under my supervision, in the partial fulfillment of Bachelor of Mechanical Engineering, of Savitribai Phule Pune University, Pune.

Date:

Place:

Guide

Prof. A. D. Gaikwad

Head of Department Dr. S. A. Patil External Examiner

Principal DR. R. V. Patil

Pune District Education Association's College of Engineering Manjan (Sk.), Pune - 412307

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



CERTIFICATE

This is to certify that the following students

Mr. Vaibhav Solunke

B150260850

Mr. Mahesh Banger

B150260802

Mr. Nilesh Tenagle

B150260852

Mr.Ajay More

B150260827

have successfully completed the stage – II of project entitled "DEVELOPMENT OF IN-PIPE ROBOT FOR CLEANING AND INSFECTION TASKS" under my supervision. In the partial fulfillment of Bachelor of Engineering Mechanical engineering, of

Date:

Place:

Prof.S.S.SHIRSATH

Guide

Dr. S. A. PATIL
Head of Department

External Examinar

Dr. R.V. PATIL

Principal

Pune District I district (3k.)

Pune 412307

P.D.E.A.'S COLLEGE OF ENGINEERING.



CERTIFICATE

This is to certify that the stage- II of project titled "ELECTRO-MAGNETIC BRAKING SYSTEM"

Has successfully completed by:

- 1) Mr. DESHMUKH VAIBHAV DHANAJI -(B150260810)
- 2) Mr. KARMARE VISHAL SUNIL

- 4) Mr. YADAV ANIKET PANDURANG. -(B150260856)

Under my supervision. In the partial fulfilment of Bachelor of Engineering in "Mechanical Engineering" of SAVITRIBAI PHULE PUNE UNIVERSITY.

Date:

Place:

Prof. Shrisath S. S.

Guide

Internal Examiner

Dr. S. A. Patil

Head of Department

Dr. R.V. Patil

Principal

Pune District Education Assessments

Pune - 412307

External Examiner



This is to certify that the project report entitles

"WATER REQUIREMENT FORECASTING SYSTEM"

Submitted by

STUDENT NAME

Exam No

OMKAR BOTRE

B150264217

HARSHAL GHAVATE

°B150264225

POOJA HAKE

B150264227

GANESH WAKCHAURE

B150264275

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

Prof. A. A. Bamaniker &

External Examiner

Department of Computer Engineering

Prof. A.A. Bamanikar

Project Coordinator

Principal,

PDEA's College Of Engineering,

R.V Patil

Manjari(Bk.), Pune-412307

Place: Pune

Date: 30/05/2022

PDEA'S COLLEGE OF ENGINEERING MANJARI(BK.), PUNE



This is to certify that the project report entitles

"E-GADGET TO DETECT FOOD FRESHNESS USING IOT AND ML"

Submitted by

ARADHANA SHARMA ULFAT SHAIKH SEJAL BARKADE RUTUJA PATURKAR

Exam No: B150264266 Exam No: B150264265 Exam No: B150264262 Exam No: B150264250

is a bonafide student of this institute and the work has been carried out by her under the supervision of Prof. 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 Guide

Department of Computer Engineering

External Examiner
Department of Computer Engineering

Prof. A. A. Bamanikar Project Coordinator

Dr. R. V. Patil
Principal
PDEA's College of Engineering,
Manjari (Bk.), Pune - 307

Place: Pune

Date: 30/05/2022



This is to certify that the project report entitles

"AN INTERACTIVE WEB BASED GAME"

Submitted by

AYUSH BHAT AJIT TARADE DEVASHISH BAKRE HRISHIKESH CHAVAN

Exam Seat No: B150264210 Exam Seat No: B150264202 Exam Seat No: B150264211 Exam Seat No: B150264219

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

Prof. A.A. Bamanikar
Project Coordinator
Department of Computer Engineering

Prof. A. A. Bomanikov
External Examiner
Department of Computer Engineering

Dr. R. V. Patil Principal,

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

Place: Pune Date:

PDEA's COEM, Department of Computer Engineering 2021-22

SAVITRIBAI PHULE PUNE UNIVERSITY

2021-22



CERTIFICATE

This is to certify that the project report entitles

"COLLEGE MANAGEMENT WEB APPLICATION SYSTEM USING MEAN STACK "

Submitted by

SAKSHI NAIKWADI KETAKI SONONE MAYURESH KOLI

Exam Seat No: 71908377L Exam Seat No: 71908400J Exam Seat No: 71815825D

HARSHAL SONAWANE

Exam Seat No: 71815885H

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 SIR 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 sir)

Project Guide

Department of Computer Engineering

External Examiner
Department Of Computer Engg.

(Prof. A.A Bamanikar) Project Coordinator

Department Of Computer Engg.

Manjari BK

(Dr. R.V. Patil)

Principal,

PDEA's College Of Engg.

Pune-412307

Place: Pune Date:

PDEA's COEM, Department of Computer Engineering 2021-22



This is to certify that the project report entitles

"ONLINE CHILD PREDATOR DETECTION USING ML"

Submitted by

Utkarsha Bhadre Mahesh Bangar Tabbasum Shaikh Sarika Waghmode

This is a bonafide student of this institute and the work has been carried out by her under the supervision of Prof. S. P. Gade 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. P. Gade

Guide

Department of Computer Engineering

External Examiner
Department of Computer Engineering

Prof. A.A. Bamanikar Project Co-ordinator

Department of Computer Engineering

Place: Pune Date: Dr. R. V. Patil Principal,

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



CERTIFICATE

This is to certify that the project report entitles

Human Activity Recognition Using Machine Learning

Submitted by

Karan Khoje Shubham Lokare Tushar Gadekar

is a Bonafide student of this institute and the work has been carried out by him/her under the supervision of Prof. S. P. Gade 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).

Guide

Department of Computer Engineering

External Examiner Department of Computer Engineering

Prof. A. A. Bamanikar

Project Co-ordinator

Department of Computer Engineering

Dr. R. V. Patil

Principal,

PDEA's College of Engineering.

Manjari (Bk.), Pune - 307

Place: Pune



CERTIFICATE

This is to certify that the project report entitles

Data Security of Dynamic and Robust Role Based Access Control from Multiple Authorities in Cloud Environment

Submitted by

Vikas Nagrale Mayur Yalij Ashutosh Kumar

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 there quirement 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

Prof. M. C.Hingane....

External Examiner

Department of Computer Engineering

Prof. A.A. Bamanikar

Project Co-ordinator

Department of Computer Engineering

Dr. R. V. Patil

Principal,

PDEA's College of Engineering,

Manjari (Bk.), Pune - 307

Place:

Date:



This is to certify that the project report entitles

DIGITAL CERTIFICATE SYSTEM FOR VERIFICATION OF EDUCATIONAL CERTIFICATES USING BLOCKCHAIN

Submitted by

1. SANGRAM RANANAWARE	B150264254
2. KETAN MORE	B150264244
3. NAJIM ATTAR	B150264207
4. KAJAL KUMARI	B150264233

this a Bonafide student of this institute and the work has been carried out by him/her under the supervision of Prof. 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. M.P. Bozawake

Guide

Department of Computer Engineering

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

Place:

Date:

External Examiner
Department of Computer
Engineering

Pr. R. V. Patil Principal, PDEA's College of Engineering, Manjari (Bk.), Pune-307



CERTIFICATE

This is to certify that the project report entitles

"SMART E-HEALTH SYSTEM: Machine learning based e-health system using for diseases prediction"

Submitted by
Vishal Awate
Nisha Bankar
Monika Biradar
Ankush Gadge

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

Prof. A.A. Bamanikar Project Co-ordinator

Department of Computer Engineering

External Examiner
Department of Computer Engineering

Dr. R. V. Patil

Principal,

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

Place: PDEA's COEM

Date: 30/05/2022

PDEA's COEM, Department of Computer Engineering 2021-22



CERTIFICATE

This is to certify that the project report entitles

Driver Drowsiness Detection Using Machine Learning

Submitted by KAMBLEKSHITIJA SAKSHIPATIL SHETHAISHWARYA POTDARSIDDHI

This a bonafide student of this institute and the work has been carried out by him/herunder the supervision of Prof. Swati Gade and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of Bachelorof Engineering (Computer Engineering).

Prof. 8.P.Gade

Guide

Department of Computer Engineering

External Examiner

Department of Computer Engineering

rof. A.A. Bamanikar roject Co-ordinator

Department of Computer Engineering

Dr. R. V. Patil

Principal,

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

Place: Pune

PDRA'S COLLEGE OF ENGINEERING MANIARLISK I DLINE



CERTIFICATE

This is to certify that the project report entitles

ERP Application For Education Institute

Submitted by

Ravisha Bansode Samruddhi Javalkar Usha Guvala Mansi Shivarkar

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. S.V.Phulari Project Guide

Department of Computer Engineering

External Examiner Department of Computer Engineering

Principal,

PDEA's College of Engineering.

Manjari (Bk.), Pune - 307

Prof. A.A. Bamanikar Project Co-ordinator

Department of Computer Engineering

Place: Pune Date: 28/05/2022



This is to certify that the project report entitles

ACADEMIA: WEB PLATFORM FOR E-LEARNING

Submitted by

- 1. Abhishek Lavale
- 2. Prajwal Gadekar
- 3. Kishor Naykodi
- 4. Abhishek Raut

- Exam Seat no.: B150264201
- Exam Seat no.: B150264221
- Exam Seat no.: B150264248
- Exam Seat no.: B150264255

is a bonafide student of this institute and the work has been carried out by him/her under the supervision of **Prof. S.V. Phulari** 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. Phulari

Guide

Department of Computer Engineering

Prof. A.A. Bamanikar

Project Co-ordinator

Department of Computer Engineering

External Examiner

Department of Computer Engineering

Dr. R. V. Patil

Principal,

PDEA's College of Engineering,

Manjari (Bk.), Pune - 412307

Place: Pune

20165120



This is to certify that the Project Entitled

Online VetMeds

Submitted by

Shaikh Abuosama Attar Faiz Desale Vaibhav

is a bonafide work carried out by students under the supervision of Prof. ****** and it is submitted towards the partial fulfillment of the requirement of Bachelor of Engineering (Computer Engineering).

Prof. N.V.Gawali Internal Guide Dept. of Computer Engg.

Prof. A. A. Bamanikar Project Co-ordinator Dept. of Computer Engg.

Dr. R. V. Patil Principal, PDEA's College of Engineering, Manjari (Bk.), Pune - 307

Place: Pune

Date 30 05 2022



This is to certify that the project report entitles

"Face Detection"

Submitted by

SAIE S. VADKE NATASHA A. JANGALE PALLAVI B. SABALE

Seat No: B120264272 Seat No: B120264230 Seat No: B120264258

is a bonafide student of this institute and the work has been carried out by him/her under the supervision of Prof. S. V. Phulari 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. Phulari)

Project Guide

Department of Computer Engineering

External Examiner
Department Of Computer Engineering

(Prof. A. A. Bamanikar)

Project Co- ordinator

Department of Computer Engineering

(Dr. R. V. Patil)

Principal,

PDEA's College of Engineering Manjari (Bk)

Pune-412307

Place: Pune

Date: 30/05/2022



This is to certify that the project report entitles

"MULTI-IMAGES STEGANOGRAPHY USING DEEP NEURAL NETWORK"

Submitted by

STUDENT NAME	Exam No:
1.TRUPTI SHAHAJI CHANDANSHIVE	B150264218
2.GAYATRI ULHAS KADAM	B150264232
3.KAJAL VILAS SHINDE	B150264268
4. PURVA IGNATHI JADHAV	B150264228

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

Prof. N. V. Gawali **External Examiner** Department of Computer Engineering

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

Dr. R. V. Patil Principal, PDEA's College of Engineering, Manjari (Bk.), Pune - 307

Place: Pune

Date: 3015/2022

PDEA'S COLLEGE OF ENGINEERING MANJARI (BK.), PUNE



This is to certify that the project report entitles

"BRAIN MACHINE INTERFACE / AUDIO SIGNAL PROCESSING"

Submitted by

AJINKYA SASNE ASHUTOSH BANAIT APURVA RAUT VISHAL RAUT

Exam No: B150264261 Exam No: B150264204 Exam No: B150264256 Exam No: F150264257

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. 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 Guide

Department of Computer Engineering

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

External Examiner
Department of Computer Engineering

Dr. R. V. Patil

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

Place: Pune

Date:

WATER LEVEL MONITORING SYSTEM



CERTIFICATE

This is to certify that the project report entitles

"WATER LEVEL MONITORING SYSTEM"

Submitted by

STUDENT NAME

EXAM SEAT NO.

KALE SWAPNIL PATIL SHIVANI

B15026434 B150264249

PAWAR VIKRANT VHANKADE RAJESH

B150264251 B150264273

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. Bamanikor

Guide

Department of Computer

Engineering

Prof.N.D. Songwanc

External Examiner

Department of Computer

Engineering

Prof. A.A. Bamanikar

Project Co-ordinator

Dr. R. V. Patil. Principal,

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

Place: Pune

Date: 30/05/2022



This is to certify that the project report entitles

"CHAT BOT SONG RECOMMENDATION SYSTEM" Submitted by

Mansi Borawake Ankita Khandhalkar Shivam Sakore Pratik Jagdale Exam No: B150264216 Exam No: B150264238 Exam No: B150264259 Exam No: B150264229

is a bonafide student of this institute and the work has been carried out by him her under the supervision 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 RV.Patil

Department of Computer Engineering

Prof. A.A.Bamanikar Project Cordinator Peol N. v Gazali

Dr. R. V. Patil

Principal,

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

Place: Pune Date: 30/05/2022



This is to certify that the project report entitled

" COLLEGE WEBSITE USING MERN STACK"

Submitted by,

AMBI DEVYANI.
GENTYAL VAISHALI.
KANPURNE GAURI.
MUDALIAR VAISHANVI.

Exam Seat No: B150264203. Exam Seat No: B150264224. Exam Seat No: B150264237. Exam Seat No: B150264245.

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) Project Guide.

Department of Computer

Engineering

(Dr. R. V. Patil)

Principal,

PDEA's College of

Engineering.

Pune - 412307.

Place: Pune

Date:



This is to certify that the project report entitles

FARMERS AGRICULTURAL PORTAL

Submitted by

Harshal Awate PRN no:71908326F
Jay Katre PRN no:71908359B
Hritik Rasal PRN no:71908389D
Akshaya Mahadik PRN no:71908371M

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. A. A. Bamonikar

Guide

Department of Computer Engineering

External Examiner

Prof. N. V. Gawali

Department of Computer Engineering

Prof. A.A. Bamanikar

Project Co-ordinator

Department of Computer Engineering

Dr. R. V. Patil

Principal,

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

Place: Pune

Date: 30/05/2022

A PROJECT REPORT

On

"EV CHARGING STATION WITH COIN BASED PAYMENT SYSTEM WITH SOLAR POWER"

SUBMITTED TO THE



SAVTRIBAI PHULE PUNE UNIVERSITY

In partial fulfillment for the award of the Degree of

"Bachelor of Engineering"

in

Electronic and Telecommunication

Submitted By

YOGESH BABAN TAWARE
NITESH BHARAT KALE
NEHA RAMESH JADHAV
UTTAM BALIRAM CHAUHAN

Under the guidance of

Prof. R. M. SAHU



Department of Electronic and Telecommunication PDEA's College of Engineering, Manjari (Bk.)

Pune - 412307.

2021-22



This is to certify that the project report entitled "EV Charging Station with Coin Based Payment System with solar power" being submitted by

YOGESH BABAN TAWARE	B150263004
NITESH BHARAT KALE	B150263003
NEHA RAMESH JADHAV	B150263002
UTTAM BALIRAM CHAHUHAN	B150263001

is a record of bonafide work carried out by them under the supervision and guidance of Prof. R. M. SAHU in partial fulfillment of the requirement for BE (Electronic and Telecommunication)-2015 Course of Savitribai Phule Pune University, Pune in the academic year 2021-2022.

Date:30/05/2022

Place:Manjari (Bk.), Pune

Prof. R.M. Sahu

Guide

Dr. R. V. Patil

Pune District Ed.

This Project stage 2 report has been examined by us as per the Savifribai Phule Pune University.

Pune requirements at PDEA's College of Engineering, Manjari (Bk.) Pune - 412 307 en. (Bk.)...

Internal Examiner

External Examiner

A PROJECT REPORT

On

"Developing Reliable Service System for Charity Donation"

SUBMITTED TO THE



SAVITRIBAI PHULE PUNE UNIVERSITY

IN THE PARTIAL FULFILLMENT FOR THE AWARD OF THE DEGREE OF

"BACHELOR OF ENGINEERING"

in

INFORMATION TECHNOLOGY

by

SWAPNALI SALUNKHE VISHAKHA MODI SAKSHI PAWAR

72012654B 71908374F 71908384C

Under the guidance of

Prof. R. M. KAWALE



Department of Information Technology

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

Pune - 412307.

2021-2022



This is to certify that the project entitled "Developing Reliable Service System of Charity Donation" being submitted by

SWAPNALI D SALUNKHE

72012654B

VISHAKHA MODI

71908374F

SAKSHI PAWAR

71908384C

Is a record of bonafide work 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 (Information Technology)

Date: 30/05/2022

Place: Manjari (Bk.), Pune

Guide

Prof. N. R. Jain Head of the Department

Principal

This Project 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 Examinar

External Examiner

A Project Report

ON

"Phishing Websites Detection Using Deep Learning framework"

SUBMITTED TO THE



SAVTRIBAI PHULE PUNE UNIVERSITY

In partial fulfillment for the award of the Degree of

"Bachelor of Engineering"

ir

Information Technology
Submitted By

RUTUJA RAMESH MASHERE B150268515

AMITA DHANANJAY CHORGHE B150268507

VAISHNAVI PRADEEP NARKHEDE B150268518

SAURAV VIJAY SONAWANE B150268528

Under The Guidance of

Prof. A.B.Gadewar



Department of Information Technology
PDEA's College of Engineering, Manjari (Bk.)



This is to certify that the project report entitles "Phishing Websites Detection Using Deep Learning framework" being Submitted by

RUTUJA RAMESH MASHERE	B150268515
AMITA DHANANJAY CHORGHE	B150268507
VAISHNAVI PRADEEP NARKHEDE	B150268518
SAURAV VIJAY SONAWANE	B150268528

is a record of bonafide work carried out by them under the supervision and guidance of **Prof. A.B.Gadewar** in partial fulfillment of the requirement for **BE** (**Information Technology**)-2015 Course of Savitribai Phule Pune University, Pune in the academic year 2021-2022.

Place:-30/05/2022

Time:- Manjari (Bk.), Pune

Prof. A.B. Gadewar

Guide

Dr. R. V. Patil

Principal

Internal Examinar

A Project Report

on

"HANDWRITTEN DIGITS RECOGNITION USING MACHINE LEARNING"

Submitted to the



Savitribai Phule Pune University
In partial fulfilment for the award of the Degree of

Bachelor of Engineering

in

Information Technology

Ву

Tarun Dubey

EXAM NO.B150268531

Anurag K Singh

EXAM NO.B150268501

Shubham Patil

EXAM NO.B150268521

Under the guidance of

Prof. N.R. Jain



Department of Information Technology
PDEA's College of Engineering, Manjari (Bk.)

Pune - 412307.



This is to certify that project entitled "HANDWRITTEN DIGITS RECOGNITION USING MACHINE LEARNING"

Being submitted by

Tarun Dubey

EXAM NO.B150268531

Shubham Patil

EXAM NO.B150268521

Anurag K Singh

EXAM NO.B150268501

Group: A is a record of bonafide work carried out by him/her under the supervision and guidance of in Prof. N. R. Jain partial fulfilment of the requirement for Bachelor of Engineering (Information Technology)-2015 Course of Savitribai Phule Pune University, Pune in the academic year 2021-2022.

Date: 30 / 05 /2022

Place: Manjari (Bk.), Pune

(Prof. N. R. Jain)

Guide.

Department of Information

Technology

Prof.

Internal Examiner

(Dr. R. V. Patil)

Principal

PDEA's Collage of Engineering,

Manjari (Bk.) Pune

(Prof.

on

"FACE RECOGNITION FOR ATTENDANCE SYSTEM USING DEEP LEARNING AND NEURAL NETWORK"

SUBMITTED TO THE



SAVTRIBAI PHULE PUNE UNIVERSITY

In partial fulfillment for the award of the Degree of

"Bachelor of Engineering"

in

Information Technology

Submitted By

ABHIJEET BALU THOMBARE	B150268532
ABHISHEK AJAY DIWATE	B150268509
PRAMOD DAULAT BORHADE	B150268504
NISHANT SURESH DESHMUKH	B150268519

Under the guidance of

Prof. R. M. Kawale



Department of Information Technology

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

Pune - 412307.



This is to certify that the project report entitled "Face Recognition for Attendance System using Deep Learning and Neural Network" being submitted by

NISHANT SURESH DESHMUKH PRAMOD DAULAT BORHADE ABHISHEK AJAY DIWATE ABHIJEET BALU THOMBARE

B150268532 B150268509 B150268504

B150268519

year 2021-2022. of Prof. R. M. Kawale in partial fulfillment of the requirement for BE (Information Technology)-2015 Course of Savitribai Phule Pune University, Pune in the academic is a record of bonafide work carried out by them under the supervision and guidance

Date:30/05/2022 Place:Manjari (Bk.), Pune

Prof. R. M. Kawale Guide

Dr. R.V. Paril Principal

This Project stage 2 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 . 30. 5 222

Internal Examiner

A PROJECT REPORT ON Designing Disease Prediction Models Using Machine Learning Approach SUBMITTED TO THE



SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE IN THE PARTIAL FULFILLMENT FOR THE AWARD OF THE DEGREE OF

BACHELOR OF ENGINEERING

IN

SUBMITTED BY,

1. Name: Vaishnavi Patole Exam No: B150268535

2. Name: Harshal Chaudhari Exam No:B150268505

3. Name: Lalit Jadhav Exam No: B150268510

UNDER THE GUIDANCE OF

Prof. N. R. Jain



Department Of Information Technology

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

Pune- 412307

This is to certify that the project report entitled

Designing Disease Prediction Models Using Machine Learning Approach

SUBMITTED BY.

1. Name: Vaishnavi Patole Exam No: B150268535

2. Name: Harshal Chaudhari Exam No: B150268505

3. Name: Lalit Jadhav Exam No: B150268510

is a record of bonafide work carried out by them under the supervision of Prof. Shalu Saraswat 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. N. R. Vain

Guide

Dr. R. V.Patil

Principal

Internal Examiner

on

"GRAPE LEAF DISEASE DETECTION USING DEEP LEARNING"

SUBMITTED TO THE



SAVTRIBAI PHULE PUNE UNIVERSITY

In partial fulfillment for the award of the Degree of

"Bachelor of Engineering"

in

Information Technology

Submitted By

SHUBHAM SHRIRAM CHAUDHARI	B150268506
SHWETA JAYSHING SHINARE	B150268529
NAMRATA DHANANJAY LOKHANDE	B150268514
PALLAVI AASARAM MOGARE	B150268517

Under the guidance of

Prof. Dr.D.S. Hirolikar



Department of Information Technology

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

Pune - 412307.



This is to certify that the project report entitled "Grape Leaf Disease Detection Using Deep Learning" being submitted by

SHUBHAM SHRIRAM CHAUDHARI	B150268506
SHWETA JAYSHING SHINARE	B150268529
NAMRATA DHANANJAY LOKHANDE	B150268514
PALLAVI AASARAM MOGARE	B150268517

is a record of bonafide work carried out by them under the supervision and guidance of **Prof.Dr.D.S.Hirolikar** in partial fulfillment of the requirement for **BE** (Information Technology) - **2015** Course of Savitribai Phule Pune University, Pune in the academic year 2021-2022.

Date:30/05/2022

Place: Manjarj (Bk,), Pune

Prof. Dr.D.S. Hirolikar Guide Dr. R.V. Patil principal

This Project stage 2 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 301 5.1.2

Internal Examiner

on

"A Road Accident Prediction Model using Data Mining Techniques"

SUBMITTED TO THE



SAVTRIBAI PHULE PUNE UNIVERSITY

In partial fulfillment for the award of the Degree of

"Bachelor of Engineering"

in

Information Technology

Submitted By

ANUJA PRASHANT KASABE DIPTI SUNIL SOLANKAR KOMAL BHAUSAHEB PAWAR B150268512 B150268530 B150268522

Under the guidance of

Prof. S. Saraswat



Department of Information Technology

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

Pune - 412307.



Using Data Mining Techniques" being submitted by This is to certify that the project report entitled "A Road Accident Prediction Model

KOMAL BHAUSAHEB PAWAR ANUJA PRASHANT KASABE DIPTI SUNIL SOLANKAR

B150268512 B150268530 B150268522

Prof. S. Saraswat in partial fulfillment of the requirement for BE (Information Technology)-2015 Course of Savitribai Phule Pune University, Pune in the academic year 2021-2022. is a record of bonafide work carried out by them under the supervision and guidance of

Date:30/05/2022 Place:Manjari (Bk.), Pune

Prof. S. Saraswat

External Examiner

This Project stage 2 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 . 30,057/2022.

On

"PUZZLE BASED CAPTCHA FOR AUTHENTICATION OF WEBCHAT APPLICATION"

SUBMITTED TO THE



SAVTRIBAI PHULE PUNE UNIVERSITY

In partial fulfillment for the award of the Degree of

"Bachelor of Engineering"

In

Information Technology

Dy

ADITYA BHOSALE NIKHIL KURUP FAHIM SANDE

Under the guidance of

B150268503 B150268513 B150268526

Prof. A.B.GADEWAR



Department of Information Technology

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

Pune - 412307



This is to certify that the project report entitled "Puzzle based CAPTCHA for authentication of WebChat application" being submitted by

ADITYA BHOSALE
NIKHIL KURUP
EAHIM SANDE

B150268503 B150268513 B150268526

Is a record of bonafide work carried out by him under the supervision and guidance of **Prof. A.B. Gadewar** in partial fulfillment of the requirement for **BE** (Information **Technology)-2015 Course** of Savitribai Phule Pune University, Pune in the academic year 2021-2022.

Date: 30/05/2022

Place: Manjari (Bk.), Pune

Prof. A. B. Gadewar

Guide

Dr R.V. Patil

This Project stage 2 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

On

INTELLIGENT MOVIE RECOMMENDATION SYSTEM USING AI AND ML

SUBMITTED TO THE



SAVITRIBAI PHULE PUNE UNIVERSITY

IN THE PARTIAL FULFILLMENT FOR THE AWARD OF THE DEGREE OF

BACHELOR OF ENGINEERING

in

INFORMATION TECHNOLOGY

by

AJINKYA SATUSE (71908321E)
OMKAR BHALERAO (72012653D)
PAVAN PAWAR (72001665H)
HRITHIK THORAT (72001668B)

Under the guidance of

Prof. Dr. D. S. Hirolikar



Department of Information Technology PDEA's College of Engineering, Manjari (Bk.)

Pune - 412307.



This is to certify that the project entitled "Intelligent Movie Recommendation System Using AI and ML" being submitted by:

Ajinkya Satuse	71908321E
Omkar Bhalerao	72012653I
Pavan Pawar	720016651
Hrithik Thorat	720016681

is a record of bonafide work carried out by them under the supervision of **Prof. Dr. D.** S. Hirolikar 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)-2015 Course of Savitribai Phule Pune University, Pune in the academic year 2021-2022.

Date: 30/05/2022

Place: Manjari (Bk.), Pune

Prof. Dr. D. S. Hirolikar

Guide

Internal Examiner

Dr. R. V. Patil
Principal

External Examiner

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

on

"SMART HEALTH CARD USING CONVOLUTIONAL NEURAL NETWORK"

SUBMITTED TO THE



SAVTRIBAI PHULE PUNE UNIVERSITY

In partial fulfillment for the award of the Degree of

BACHELOR OF ENGINEERING

in

INFORMATION TECHNOLOGY

by

Sourav Hanumant Jagtap Pankaj Deepakrao Padole Prajwal Vijay Dange

B150268511 B150268520 B150268508

Under the guidance of

Prof. Shalu Saraswat



Department of Information Technology

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

Pune - 412307.



This is to certify that the project report entitled "Smart Health Card Using Convolutional Neural Network" being submitted by

Sourav Hanumant Jagtap Pankaj Deepakrao Padole Prajwal Vijay Dange B150268511 B150268520 B150268508

is a record of bonafide work carried out by him under the supervision and guidance of **Prof. Shalu Saraswat** in partial fulfillment of the requirement for **BE** (Information Technology)-2015 Course of Savitribai Phule Pune University, Pune in the academic year 2021-2022.

Date:30/05/2022 Place:Manjari (Bk.), Pune

Prof. Shalu Saraswat

Principal

This Project stage 2 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 .30 105 2022

Internal Examiner

On

"Developing Reliable Service System for Charity Donation"

SUBMITTED TO THE



SAVITRIBAI PHULE PUNE UNIVERSITY

IN THE PARTIAL FULFILLMENT FOR THE AWARD OF THE DEGREE OF

"BACHELOR OF ENGINEERING"

in

INFORMATION TECHNOLOGY

by

SWAPNALI SALUNKHE VISHAKHA MODI SAKSHI PAWAR 72012654B 71908374F 71908384C

Under the guidance of

Prof. R. M. KAWALE



Department of Information Technology

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

Pune - 412307.



This is to certify that the project entitled "Developing Reliable Service System of Charity Donation" being submitted by

SWAPNALI D SALUNKHE

72012654B

VISHAKHA MODI

71908374F

SAKSHI PAWAR

71908384C

Is a record of bonafide work carried out by

Kawale and it is approved for the partial fulfil

Pune University for the award of the Degree

Technology)

nder the supervision of Prof. R. M. the requirement of Savitribai Phule sachelor of Engineering (Information

Date: 30/05/2022

Place: Manjari (Bk.), Pune

Prof. R. M. Kawale Guide Prof. N. R. Jain Head of the Department

Principal

This Project 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 Examinar

A Project Report

ON

"Phishing Websites Detection Using Deep Learning framework"

SUBMITTED TO THE



SAVTRIBAI PHULE PUNE UNIVERSITY

In partial fulfillment for the award of the Degree of

"Bachelor of Engineering"

in

Information Technology
Submitted By

RUTUJA RAMESH MASHERE
AMITA DHANANJAY CHORGHE
VAISHNAVI PRADEEP NARKHEDE
SAURAV VIJAY SONAWANE

B150268515

B150268507

B150268518

B150268528

Under The Guidance of

Prof. A.B.Gadewar



Department of Information Technology PDEA's College of Engineering, Manjari (Bk.)



This is to certify that the project report entitles "Phishing Websites Detection Using Deep Learning framework" being Submitted by

RUTUJA RAMESH MASHERE	B150268515
AMITA DHANANJAY CHORGHE	B150268507
VAISHNAVI PRADEEP NARKHEDE	B150268518
SAURAV VIJAY SONAWANE	B150268528

is a record of bonafide work carried out by them under the supervision and guidance of **Prof. A.B.Gadewar** in partial fulfillment of the requirement for **BE** (**Information Technology**)-2015 Course of Savitribai Phule Pune University, Pune in the academic year 2021-2022.

Place:-30/05/2022

Time:- Manjari (Bk.), Pune

Prof. A.B.Gadewar

Guide

Dr. R. V. Patil

Principal

This Project 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 Examinar

on

"SMART HEALTH CARD USING CONVOLUTIONAL NEURAL NETWORK"

SUBMITTED TO THE



SAVTRIBAI PHULE PUNE UNIVERSITY

In partial fulfillment for the award of the Degree of

BACHELOR OF ENGINEERING

in

INFORMATION TECHNOLOGY

by

Sourav Hanumant Jagtap Pankaj Deepakrao Padole Prajwal Vijay Dange B150268511 B150268520 B150268508

Under the guidance of

Prof. Shalu Saraswat



Department of Information Technology

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

Pune - 412307.



This is to certify that the project report entitled "Smart Health Card Using Convolutional Neural Network" being submitted by

Sourav	Hanumant Jagtap
	Deepakrao Padole
	Vijay Dange

B150268511 B150268520 B150268508

is a record of bonafide work carried out by him under the supervision and guidance of Prof. Shalu Saraswat in partial fulfillment of the requirement for BE (Information Technology)-2015 Course of Savitribai Phule Pune University, Pune in the academic year 2021-2022.

Date:30/05/2022 Place:Manjari (Bk.), Pune

> Prof. Shalu Saraswat Guide

Principal

This Project stage 2 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 30 05 20 22

Internal Examiner

on

"FACE RECOGNITION FOR ATTENDANCE SYSTEM USING DEEP LEARNING AND NEURAL NETWORK"

SUBMITTED TO THE



SAVTRIBAI PHULE PUNE UNIVERSITY

In partial fulfillment for the award of the Degree of

"Bachelor of Engineering"

in

Information Technology

Submitted By

ABHIJEET BALU THOMBARE
ABHISHEK AJAY DIWATE
PRAMOD DAULAT BORHADE
NISHANT SURESH DESHMUKH

B150268532

B150268509

B150268504

B150268519

Under the guid nee of

Prof. R. M. Kawale



Department of Information Technology
PDEA's College of Engineering, Manjari (Bk.)

Pune - 412307.



This is to certify that the project report entitled "Face Recognition for Attendance System using Deep Learning and Neural Network" being submitted by

ABHIJEET BALU THOMBARE	B150268532
ABHISHEK AJAY DIWATE	B150268509
PRAMOD DAULAT BORHADE	B150268504
NISHANT SURESH DESHMUKH	B150268519

is a record of bonafide work carried out by them under the supervision and guidance of **Prof. R. M. Kawale** in partial fulfillment of the requirement for **BE** (**Information Technology**)-2015 Course of Savitribai Phule Pune University, Pune in the academic year 2021-2022.

Date:30/05/2022

Place: Manjari (Bk.), Pune

Prof. R. M. Kawale

Guide

Dr. R. V. Patil

Principal

This Project stage 2 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 . 30 512022

Internal Examiner

A PROJECT REPORT ON Designing Disease Prediction Models Using Machine Learning Approach SUBMITTED TO THE



SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE IN THE PARTIAL FULFILLMENT FOR THE AWARD OF THE DEGREE OF

BACHELOR OF ENGINEERING

IN

INFORMATION TECHNOLOGY SUBMITTED BY,

1. Name: Vaishnavi Patole Exam No: B150268535

2. Name: Harshal Chaudhari Exam No:B150268505

3. Name: Lalit Jadhav Exam No: B150268510

UNDER THE GUIDANCE OF

Prof. N. R. Jain



Department Of Information Technology

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

Pune- 412307

This is to certify that the project report entitled

Designing Disease Prediction Models Using Machine Learning Approach

SUBMITTED BY,

1. Name: Vaishnavi Patole Exam No: B150268535

2. Name: Harshal Chaudhari Exam No: B150268505

3. Name: Lalit Jadhav Exam No: B150268510

is a record of bonafide work carried out by them under the supervision of Prof. Shalu Saraswat 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

1101. 14, 16, 56

Guide

Dr. R. V.Patil

Principal

Internal Examiner

on

"GRAPE LEAF DISEASE DETECTION USING DEEP LEARNING"

SUBMITTED TO THE



SAVTRIBAI PHULE PUNE UNIVERSITY

In partial fulfillment for the award of the Degree of

"Bachelor of Engineering"

in

Information Technology

Submitted By

SHUBHAM SHRIRAM CHAUDHARI	B150268506
SHWETA JAYSHING SHINARE	B150268529
NAMRATA DHANANJAY LOKHANDE	B150268514
PALLAVI AASARAM MOGARE	B150268517

Under the guidance of

Prof. Dr.D.S. Hirolikar



Department of Information Technology

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

Pune - 412307.



This is to certify that the project report entitled "Grape Leaf Disease Detection Using Deep Learning" being submitted by

SHUBHAM SHRIRAM CHAUDHARI	B150268506
SHWETA JAYSHING SHINARE	B150268529
NAMRATA DHANANJAY LOKHANDE	B150268514
PALLAVI AASARAM MOGARE	B150268517

is a record of bonafide work carried out by them under the supervision and guidance of Prof.Dr.D.S.Hirolikar in partial fulfillment of the requirement for BE (Information Technology) -2015 Course of Savitribai Phule Pune University, Pune in the academic year 2021-2022.

Date:30/05/2022

Place: Manjari (Bk.), Pune

Prof. Dr.D.S. Nirolikar

Guide

This Project stage 2 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 30 /. 5.1.2 2

Internal Examiner

"A Road Accident Prediction Model using Data Mining Techniques"

SUBMITTED TO THE



SAVTRIBAI PHULE PUNE UNIVERSITY

In partial fulfillment for the award of the Degree of

"Bachelor of Engineering"

in

Information Technology

Submitted By

ANUJA PRASHANT KASABE DIPTI SUNIL SOLANKAR KOMAL BHAUSAHEB PAWAR B150268512 B150268530 B150268522

Under the guidance of

Prof. S. Saraswat



Department of Information Technology PDEA's College of Engineering, Manjari (Bk.)

Pune - 412307.



This is to certify that the project report entitled "A Road Accident Prediction Model Using Data Mining Techniques" being submitted by

ANUJA PRASHANT KASABE
DIPTI SUNIL SOLANKAR
KOMAL BHAUSAHEB PAWAR

B150268512 B150268530 B150268522

is a record of bonafide work carried out by them under the supervision and guidance of **Prof. S. Saraswat** in partial fulfillment of the requirement for **BE** (Information **Technology)-2015 Course** of Savitribai Phule Pune University, Pune in the academic year 2021-2022.

Date:30/05/2022

Place: Manjari (Bk.), Pune

Prof. S. Saraswat

Guide

Dr. R. V. Patil Principal

This Project stage 2 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 39/05/2022

Internal Examiner

On

"PUZZLE BASED CAPTCHA FOR AUTHENTICATION OF WEBCHAT APPLICATION"

SUBMITTED TO THE



SAVTRIBAI PHULE PUNE UNIVERSITY

In partial fulfillment for the award of the Degree of

"Bachelor of Engineering"

In

Information Technology

Ву

ADITYA BHOSALE NIKHIL KURUP FAHIM SANDE

Under the guidance of

Prof. A.B.GADEWAR

B150268526

B150268503

B150268513

Department of Information Technology

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

Pune - 412307



This is to certify that the project report entitled "Puzzle based CAPTCHA for authentication of WebChat application" being submitted by

ADITYA BHOSALE NIKHIL KURUP FAHIM SANDE

B150268503 B150268513 B150268526

Is a record of bonafide work carried out by him under the supervision and guidance of **Prof. A.B. Gadewar** in partial fulfillment of the requirement for **BE** (Information Technology)-2015 Course of Savitribai Phule Pune University, Pune in the academic year 2021-2022.

Date: 30/05/2022

Place: Manjari (Bk.), Pune

Prof. A. B. Gadewar

Guide

Principal

This Project stage 2 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

On

INTELLIGENT MOVIE RECOMMENDATION SYSTEM USING AI AND ML

SUBMITTED TO THE



SAVITRIBAI PHULE PUNE UNIVERSITY

IN THE PARTIAL FULFILLMENT FOR THE AWARD OF THE DEGREE OF

BACHELOR OF ENGINEERING

INFORMATION TECHNOLOGY

by

(71908321E) AJINKYA SATUSE (72012653D) OMKAR BHALERAO (72001665H) PAVAN PAWAR (72001668B) HRITHIK THORAT

Under the guidance of

Prof. Dr. D. S. Hirolikar



Department of Information Technology PDEA's College of Engineering, Manjari (Bk.)

Pune - 412307.



This is to certify that the project entitled "Intelligent Movie Recommendation System Using AI and ML" being submitted by:

Ajinkya Satuse	
Omkar Bhalerao	
Pavan Pawar	
Hrithik Thorat	

is a record of bonafide work carried out by them under the supervision of **Prof. Dr. D. S. Hirolikar** 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)-2015 Course of Savitribai Phule Pune University, Pune in the academic year 2021-2022.

Date: 30/05/2022

Place: Manjari (Bk.), Pune

Prof. Dr. D. S. Hirolikar

Guide

Internal Examiner

Dr. R. V. Patil-Principal

71908321E 72012653D 72001665H 72001668B

External Examiner

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

A Project Report

on

"HANDWRITTEN DIGITS RECOGNITION USING MACHINE LEARNING"

Submitted to the



Savitribai Phule Pune University
In partial fulfilment for the award of the Degree of

Bachelor of Engineering

in

Information Technology

By

Tarun Dubey

EXAM NO.B150268531

Anurag K Singh

EXAM NO.B150268501

Shubham Patil

EXAM NO.B150268521

Under the guidance of

Prof. N.R. Jain



Department of Information Technology

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

Pune - 412307.



This is to certify that project entitled "HANDWRITTEN DIGITS RECOGNITION USING MACHINE LEARNING"

Being submitted by

Tarun Dubey EXAM NO.B150268531

Shubham Patil EXAM NO.B150268521

Anurag K Singh EXAM NO.B150268501

Group: A is a record of bonafide work carried out by him/her under the supervision and guidance of in Prof. N. R. Jain partial fulfilment of the requirement for Bachelor of Engineering (Information Technology)-2015 Course of Savitribai Phule Pune University, Pune in the academic year 2021-2022.

ate: 30 / 05 /2022

ace: Manjari (Bk.), Pune

(Prof. N. R. Jain)

Guide,

Department of Information

Technology

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Principal

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