
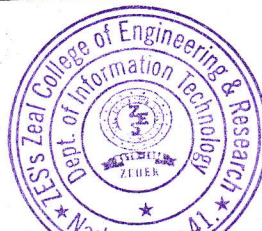
	<b>ZEAL EDUCATION SOCIETY'S</b>	
	<b>ZEAL COLLEGE OF ENGINEERING AND RESEARCH</b>	
	<b>NARHE   PUNE -41   INDIA</b>	
Record No.: ZCOER-ACAD/R/25A	Revision: 00	Date: 01/04/2021

Department: Information Technology  
Class: BE

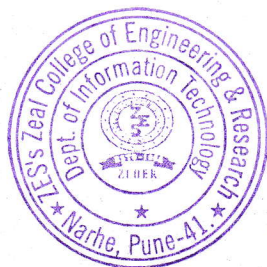
Semester: I / II  
Div: A

Academic Year: 2021 -22  
Date:

Roll No	Name of Student	Name of the guide	Topic
B511025	GAWADE PRAGATI BHANUDAS	Prof. Jayesh Sarwade (9860834782)	Unused Medicine Donation System Using MongoDB and Data Science
B511066	SAPKAL RUTUJA PANDURANG		
B511064	RATHOD BHISHALI BALU		
B511044	KULKARNI SHREYAS SHRIDHAR		
B511003	SAVARGAONKAR ATHARVA SUJEET	Prof. Pooja Ingole (9604746691)	COVID-19: Face Mask Detector with OpenCV, Keras/TensorFlow, and Deep Learning
B511039	KADAM ISHA BHARAT		
B511060	PAWAR ANUSHKA CHANDRAKANT		
B511053	NAGPURE SAHIL SANJEEV		
B511057	SUYASH YOGESH PARADKAR	Prof. Rahul Bhole (7498622026)	Implementation of recommendation system for selecting best career using fuzzy approach
B511023	GANATRA KOMAL RAJNIKANT		
B511074	TEKADE SHREYA NANDKISHOR		
B511067	SARWADE SALONI SATISH		
B511022	GAIKWAD AKASH ARVIND	Prof. Jayesh Sarwade (9860834782)	Implementing Augment Reality in Education
B511062	RAHANE SASHA RAMNATH		
B511040	KADAM SHAMBHAVI SURENDRA		
B511049	MATE ROHIT SURENDRA		
B511007	BHARNE PRACHI RAJENDRA	Prof. Poonam Chavan (8169440067)	Banking Locker System
B511038	JOSHI TEJAL PRASHANT		
B511069	SHAH MANSI RAHUL		
B511013	CHAUDHARY SIDDHANT HARBIRKUMAR		
B511055	OMBASE ABHIJEET SURESH	Prof. Vidya Kantale(7028914129)	Finger Print Authentication (Access) on Web Services
B511052	NAGANE SAHIL SUNIL		
B511042	KHARADE SURAJ SATISH		
B511009	BHONDWE NISHA RAJU		
B511075	THOOL ABHINAV PRAVIN	Prof. Ankita Patil (7559177837)	Stock Market Prediction Using LSTM
B511029	GHEWARE SAURABH SUNIL		
B511063	RAJPURE ABHAY KAILAS		
B511050	MOOLYA ABHISHEK DODDANNA		
B511028	SHWETA KIRANKUMAR GHATGE	Prof. Jyotsana Nanajkar(9822910610)	Helmet and Number Plate Detection Using Python and OpenCV
B511041	KARANDE KUSUM SANJAY		
B511015	DEO SAMRUDDHI SUHAS		
B511016	DESHMUKH SAKSHI SUNIL		

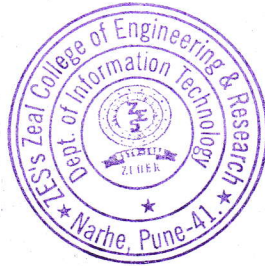



Roll No	Name of Student	Name of the guide	Topic
B511033	JADHAV TEJAS RUPESH	Prof Swapnaja Ubale (7620111845)	Detecting Password brute force attack and protecting cloud data with AES Encryption Algorithm
B511019	DHAPADE PANKAJ PRABHU		
B511070	SHETE SHUBHAM DNYANDEV		
B511046	MANDAVKAR SAURABH NANDKUMAR		
B511061	PRABHUNE ATHARVA PRASHANT	Prof Swapnaja Ubale (7620111845)	Data anonymization Using AES Algorithm and Fernet
B511008	BHASME TEJAS SANDEEP		
B511005	BARTAKKE OMKAR CHANDRAKANT		
B511043	KHOT ANANT MANIK		
B511014	CHRISTINA GRACE NANDIGAM	Prof Rahul Bhole (7498622026)	Crime Detection Using Neural Network
B511037	JOSHI NAYANA GANESH		
B511011	BICHUKALE SWARANJALI VILAS		
B511030	GOMARE VINISHA GOVIND		
B511071	SHINDE ADITYA ASHOK	Dr.Yogesh B. Gurav (9763553560)	Plant Disease Detection Using Leaf Images Using Deep Learning
B511065	RAYKAR TEJAS RAVINDRA		
B511059	PATIL PRAFULLA PITAMBAR		
B511045	MALI HARSHVARDHAN SANJAY		
B511027	GHARGE MAYURI SUBHASH	Prof. Poonam Chavan (8169440067)	IoT based Smart Crop-Filed Monitoring And Automation Irrigation system
B511048	MARNE MRUNAL ANIL		
B511010	BHUJBAL SHUBHAM SATISH		
B511031	ITNARE SARVESH NARHARI		
B511054	Tejas Nand Patil	Prof.Pooja Ingole (9604746691)	Deep learning for early detection of breast cancer using histopathological images
B511058	PATIL AKSHAY DNYANESHWAR		
B511056	PANDHARE ADITYA ARUN		
B511079	ZORE SATISH DHONDIBA		
B511017	DEVKAR PRAGATI BABAN	Prof. Vidya Kantale(7028914129)	Traffic Single Management System
B511004	AWATE POOJA EKNATH		
B511073	TAMBE SNEHAL DATTATRAY		
B511035	JANKAR SWARAJ SWARUPKUMAR		
B511077	WAGHMARE ANUJA TANAJI	Prof. Ankita Patil (7559177837)	Smart Parking System using IoT
B511002	AHIRRAO VAISHNAVI ATUL		
B511001	ABHANG GAYATRI SUNIL		
B511078	WANI VAIBHAV MOTI		
B511076	VISHWANATH VAISHNAV	Prof. Ankita Patil (7559177837)	Detection of Phishing Website Using GML
B511018	DHANDE SHWETA WAMANRAO		
B511012	BOKARE RUTUJA UDHAV		
B511006	BHANDARE PAVITRA PURANDAR		



Roll No	Name of Student	Name of the guide	Topic
B511024	GAUND SIDDHANT RAMDAS	Prof.Sunita Chavan (9765656393)	Sentiment Analysis of Twitter data6
B511051	MULLA ANEES ALTAP		
B511047	MANER TAHIR ISMAIL		
B511032	JADHAV AJINKYA AVINASH		
B511034	JAGDALE PRATIKSHA SUBHASH	Prof. Tejasveeni hampe(9923508802)	Visual Speech recognition
B511026	GAWADE SAATVIK SHIVAJI		
B511036	JINDE ROHAN AMBADAS		
B511020	DHOBLE VAIBHAV RAMCHANDRA		
B511068	SAWANT SAUDNYA PRAVIN	Prof.Sunita Chavan (9765656393)	Depression Detection Using Machine Learning
B511021	DIVEKAR APOORVA SUNIL		
B511072	SINGH RAHUL RAJKUMAR		

  
Project Coordinator



  
Head of Department  
HOD  
Dept. of Information Tech. Engg  
ZES's Zeal College  
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Narhe, Pune - 411 041





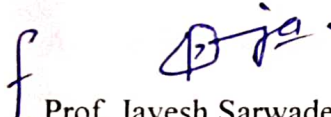
This is to certify that the project entitled “UNUSED MEDICINE DONATION SYSTEM USING MONGODB”


SUBMITTED BY


Shreyas S Kulkarni	72005130E
Pragati B Gawade	71915949M
Bhishali B Rathod	72005133K
Rutuja P Sapkal	71916162C


is a bonafide work carried out by them under the supervision of Prof. 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).

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

  
Prof. Jayesh Sarwade  
Internal Guide  
Department Of Information Technology

  
Prof. Rahul Bhole  
Head Of Department  
Department Of Information Technology

  
External Examiner  
Date: \_\_\_\_\_

  
Dr.A.M.Kate  
Principal  
Zeal College Of Engg. and Research

Date: 30/5/22  
Place: Narhe, Pune





## CERTIFICATE

This is to certify that the project report entitled “COVID 19: FACEMASK DETECTOR WITH OPEN CV, TENSOR FLOW, AND DEEP LEARNING”

Submitted by

ATHARVA SAVARGAONKAR	B150538567
ANUSHKA PAWAR	B150538556
SAHIL NAGPURE	B150538549
ISHA KADAM	B150538536

Is a bonafide work carried out by them under the supervision of Prof. Pooja S. Ingole, 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).

This Project Report has been earlier submitted to any other Institute or University for the award of any degree or diploma.

Prof. Pooja S. Ingole

Internal Guide

Department of Information Technology

Prof. Rahul Bhole

Head Of Department

Department of Information Technology

Dr. A. M. Kate

Principal

Zeal College of Engineering and Research

Date: 30/05/22

Place: Pune



## CERTIFICATE

This is to certify that the project report entitled

**“REAL TIME MAINTAINING OF SOCIAL DISTANCE IN COVID 19 ENVIRONMENT USING OPENCV, DEEP LEARNING AND COMPUTER VISION”**

submitted by

**SUYASH YOGESH PARADKAR (71916202F)**

**KOMAL RAJNIKANT GANATRA (71915946G)**

**SHREYA NANDKISHOR TEKADE (72005136D)**

**SALONI SATISH SARWADE (71916164K)**

is a bonafide work carried out by them under the supervision of **Prof. Rahul H. Bhole** 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 Engineering).

(Prof. Rahul H. Bhole)

Guide

Department of Information  
Technology Engineering

(Prof. Rahul H. Bhole)

Head

Department of Information  
Technology Engineering

(Dr. Ajit M. Kate)

Principal

Zeal College of Engineering & Research, Pune-41

Place : Pune

Date :30/05/2022



## CERTIFICATE

This is to certify that the project report entitled  
"FUNLEARNAR: AN AUGMENTED REALITY IN EDUCATION"

Submitted by

SASHA RAHANE

PRN NO: 71916132M

ROHIT MATE

PRN NO: 71831597K

SHAMBHAVI KADAM

PRN NO: 71915995E

AKASH GAIKWAD

PRN NO: 71915941F

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

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

f 

**Prof. Jayesh Sarwade**

Project guide

Department of Information Technology



**Prof. Rahul Bhole**

Head of Department

Department of Information Technology



External Examiner

Date: 30/05/2022



**Dr. A. M. Kate**

Principal

Zeal College of Engineering & Research

Place: Pune

Date: 30/05/2022





## CERTIFICATE

This is to certify that the project report entitled

### Banking Locker System

### Is Satisfactorily Completed By

Prachi Rajendra Bharme	B150538507
Siddhant Harbirkumar Chaudhary	B150538513
Tejal Prashant Joshi	B150538535
Mansi Rahul Shah	B150538568

is a bonafide student of this institute and the work has been carried out by him/her under the supervision of **Prof. Punam Chavan** 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).

**Prof. Punam Chavan**

Guide

**Prof. Rahul Bhole**

HOD

**Dr. Ajit M. Kate**

Principal.

Date:- 30/05/2022

Place:- Pune

## Certificate

This is to certify that the project report entitled


### Fingerprint Authentication on Web Services


#### Submitted by


Abhijeet Suresh Ombase	B150538551
Sahil Sunil Nagane	B150538548
Suraj Satish Kharade	B150538539
Nisha Raju Bhondwe	B150538509


is a Bonafide work carried out by them under the supervision of **Prof. Vidya Kantale** 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)

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

  
f **Prof. Vidya Kantale**  
Project Guide

  
**Prof. Rahul Bhole**  
HOD

  
External Examiner

  
**Dr. Ajit Kate**  
Principal

Date: 30 May 2022

Place: Pune



## CERTIFICATE

This is to certify that the project report entitled

**Stock Market Prediction Using LSTM**

Submitted by

GHEWARE SAURABH SUNIL	B150538526
MOOLYA ABHISHEK DODDANNA	B150538547
RAJPURE ABHAY KAILAS	B150538559
THOOL ABHINAV PRAVIN	B150538575

is a bonafide student of this institute and the work has been carried out by him/her under the supervision of **Prof. Ankita 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 (Information Technology)

**Prof. Ankita Patil**

Guide

**External Examiner**

Date :-

**Prof. Rahul Bhole**

**Dr. Ajit M. Kate**

Principal





## CERTIFICATE

This is to certify that the project report entitles

**“AUTOMATIC HELMET & NUMBER PLATE DETECTION SYSTEM”**

### Submitted By

SAKSHI DESHMUKH	B150538563
SHWETA GHATGE	B150538571
KUSUM KARANDE	B150538538
SAMRUDDHI DEO	B150538515

are bonafide students of this institute and the work has been carried out by them under the supervision of **Prof. Mrs Jyotsna Nanajkar** 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 (IT ENGINEERING).

**Prof. Jyotsna Nanajkar**

Internal Guide  
Dept. of IT Engineering

External Examiner

**Prof. Rahul Bhole**

Head Of Department  
Dept. IT Engineering

**Dr. A M Kate**  
Principal  
ZCOER, Pune

Place : Pune

Date : 30/05/2022



## CERTIFICATE

This is to certify that the project phase-II report entitled

**Detecting Password Brute Force Attack And Protecting The Cloud Data With  
AES Encryption Algorithm**

Submitted by

Pankaj Dhapade	B150538518
Tejas Jadhav	B150538530
Shubham Shete	B150538569
Saurabh Mandavkar	B150538543

is a bonafide student of this institute and the work has been carried out by him/her under the supervision of **Prof. Dr. Swapnaja Ubale** 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)

  
**Dr. Swapnaja Ubale**

Guide

  
**External Examiner**

Date

  
**Prof. Rahul Bhole**

HOD

  
**Dr. A.M. Kate**

Principal



## CERTIFICATE

This is to certify that the project phase-II report entitled

### Data Anonymization Using AES Algorithm and Fernet

Submitted by

Atharva Prabhune	B150538557
Tejas Bhasme	B150538508
Omkar Bartakke	B150538505
Anant Khot	B150538540

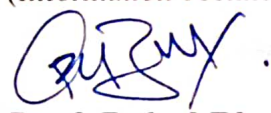
is a bonafide student of this institute and the work has been carried out by him/her under the supervision of **Prof. Dr. Swapnaja Ubale** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of Bachelor of Engineering (Information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

  
**Dr. Swapnaja Ubale**

Guide

  
**External Examiner**

Date 30/05/2022

  
**Prof. Rahul Bhole**

HOD

  
**Dr. A.M. Kate**

Principal





## CERTIFICATE

This is to certify that the project report entitled

### CRIME DETECTION USING NEURAL NETWORKS

Submitted by

Swaranjali V. Bichukale	B150538511
Christina G. Nandigam	B150538514
Vinisha G. Gomare	B150538527
Nayana G. Joshi	B150538534

is a bonafide work carried out by them under the supervision of Prof. R. H. Bhole 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).

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

Prof. R. H. Bhole  
Internal Guide  
Department of Information Technology

Prof. R. H. Bhole  
Head of Department  
Department of Information Technology

External Examiner

Dr. A. M. Kate  
Principal  
Zeal College of Engineering & Research

Place:

Date:



## CERTIFICATE

This is to certify that the project report entitled " Plant Disease Detection using leaf images using Deep learning"

### SUBMITTED BY

**Aditya Shinde**

**B150538570**

**Tejas Raykar**

**B150538561**

**Prafulla Patil**

**B150538555**

**Harshvardhan Mali**

**B150538542**

is a bonafide work carried out by them under the supervision of Dr. Yogesh B. Gurav 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).

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

Dr Yogesh B. Gurav

Internal Guide

Department Of Information Technology

Prof. Rahul Bhole

Head Of Department

Department Of Information Technology

External Examiner

Date: 30/5/2022

Dr.A.M.Kate

Principal

Zeal College Of Engg. and Research

Date: 30/5/2022

Place: Pune



## CERTIFICATE

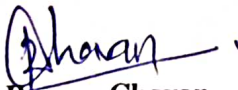
This is to certify that the project report entitled


### IoT Based Smart Crop Field Monitoring And Automation Irrigation System


#### Is Satisfactorily Completed By

Shubham Bhujbal	B150538510
Mayuri Gharge	B150538525
Sarvesh Itnare	B150538528
Mrunal Marne	B150538545

is a bonafide student of this institute and the work has been carried out by him/her under the supervision of **Prof. Punam Chavan** 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).

  
**Prof. Punam Chavan**  
Guide

  
**Prof. Rahul Bhole**  
HOD

  
External Examiner

  
**Dr. Ajit M. Kate**  
Principal.

Date:- 01/06/2022

Place:- Pune





## CERTIFICATE

This is to certify that the project report entitled " Deep Learning for Early Detection of Breast Cancer using Histopathological Images"

### SUBMITTED BY

Aditya Pandhare

B150538552

Tejas Nandpatil

B150538550

Akshay Patil

B150538554

Satish Zore

B150538579

is a bonafide work carried out by them under the supervision of Prof. Pooja S. Ingole 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).

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

Prof. Pooja S. Ingole  
Internal Guide  
Department Of Information Technology

Prof. Rahul Bhole  
Head Of Department  
Department Of Information Technology

External Examiner  
Date: 30/05/2022

Dr.A.M.Kate  
Principal  
Zeal College Of Engg. and Research

Date: 30/05/2022  
Place: Pune.



This is to certify that the project entitled "Traffic Signal Management System"

SUBMITTED BY

Devkar Pragati Baban

B511017

Awate Pooja Eknath

B511004

Jankar Swaraj Swarupkumar


B511035


Tambe Snehal Dattatray

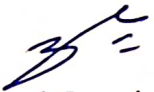
B511073


is a bonafide work carried out by them under the supervision of Prof. Vidhya dhoke 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).

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

  
Prof. Vidhya Dhoke  
Internal Guide  
Department Of Information Technology

  
Prof. Rahul Bhole  
Head Of Department  
Department Of Information Technology

  
External Examiner  
Date:

  
Dr.A.M.Kate  
Principal  
Zeal College Of Engg. and Research

Date: 30/5/2022  
Place: Pune



## CERTIFICATE

This is to certify that the project report entitled “SMART PARKING SYSTEM USING IOT”

### SUBMITTED BY

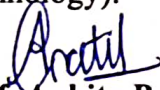
Gayatri Abhang B150538501

Vaishnavi Ahirrao B150538502

Anuja Waghmare B150538577

Vaibhav Wani B150538578

is a bonafide work carried out by them under the supervision of Prof. Ankita Patil 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).

  
Prof. Ankita Patil

Internal Guide


Department Of Information Technology



Prof. Rahul Bhole

Head Of Department

Department Of Information Technology

  
External Examiner

Date: Place:



Dr. A.M. Kate  
Principal

Zeal College Of Engg. and Research





## CERTIFICATE

This is to certify that the project report entitled

**“DETECTION OF PHISHING WEBSITES USING ML”**

**Submitted By**

**VAISHNAV VISHWANATH  
SHWETA DHANDE  
BOKARE RUTUJA  
BHANDARE PAVITRA**

**EXAM SEAT NO: B150538576  
EXAM SEAT NO: B150538517  
EXAM SEATNO: B150538512  
EXAM SEAT NO: B150538506**

is a bonafide student of this institute and the work has been carried out by him under the supervision of **Prof. Ankita 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 (IT ENGINEERING).

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

**Prof. Ankita Patil**  
Internal Guide  
Dept. of IT Engineering

**Prof. Rahul Bhole**  
Head of Department  
Dept. IT Engineering

External Examiner

**Dr. A M Kate**  
Principal  
ZCOER, Pune

Place:

Date:



## CERTIFICATE

This is to certify that the project report entitled "Sentiment Analysis Based on Twitter"

### SUBMITTED BY

Ajinkya Jadhav-B150538529

Tahir Maner-B150538544

Siddhant Gaund-B150538523

Anees Mulla-B150538503

is a bonafide work carried out by them under the supervision of Prof. Sunita Chavan 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).

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Prof. Sunita Chavan

Internal Guide

Department Of Information Technology

Prof. Rahul Bhole

Head of Department

Department of Information Technology

External Examiner

Dr. A. M. Kate

Principal

Zeal College of Engineering and Research

Date: 30/05/2022

Place: Pune



## CERTIFICATE

This is to certify that the project phase-II report entitled

### Visual Speech Recognition

Submitted by

Vaibhav Dhoble	B150538519
Pratiksha Jagdale	B150538531
Rohan Jinde	B150538533
Saatvik Gawade	B150538562

is a bonafide student of this institute and the work has been carried out by him/her under the supervision of **Prof. Tejaswini Girish Hampe** 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)

**Prof. Tejaswini Girish Hampe**

Guide

**Prof. Rahul Bhole**

HOD

**Dr. Ajit M. Kate**

Principal.





## CERTIFICATE

This is to certify that the project report entitles  
“ **Depression Detection Using Machine Learning** ”


### SUBMITTED BY

**Rahul Singh**  
**Apoorva Divekar**  
**Saudyna Sawant**

**B511072**  
**B511021**  
**B511068**


is a bonafide work carried out by them under the supervision of **Prof. Sunita Chavan** 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).

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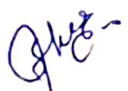
  
Prof. Sunita Chavan

Guide

Department of Information Technology

  
Prof. Rahul Bhole  
Head of Department

Department of Information Technology

  
External Examiner

Date:

Place:



Dr.A.M.Kate

Principal

Zeal College Of Engineering and  
Research



**A  
PROJECT REPORT  
ON**

**“Unused Medicine Donation System Using MongoDB”**

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”**

**BY**

Shreyas S Kulkarni

72005130E

Pragati B Gawade

71915949M

Bhishali B Rathod

72005133K

Rutuja P Sapkal

71916162C

**UNDER THE GUIDANCE OF**  
Prof. Jayesh Sarwade



**Department Of Information Technology  
Zeal Education Society's  
ZEAL COLLEGE OF ENGINEERING & RESEARCH  
Narhe, Pune- 411041  
2021-2022**





## CERTIFICATE

This is to certify that the project report entitled “COVID 19: FACEMASK DETECTOR WITH OPEN CV, TENSOR FLOW, AND DEEP LEARNING”

Submitted by

ATHARVA SAVARGAONKAR	B150538567
ANUSHKA PAWAR	B150538556
SAHIL NAGPURE	B150538549
ISHA KADAM	B150538536

Is a bonafide work carried out by them under the supervision of Prof. Pooja S. Ingole, 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).

This Project Report has been earlier submitted to any other Institute or University for the award of any degree or diploma.

Prof. Pooja S. Ingole

Internal Guide

Department of Information Technology

Prof. Rahul Bhole

Head Of Department

Department of Information Technology

Dr. A. M. Kate

Principal

Zeal College of Engineering and Research

Date: 30/05/22

Place: Pune





## CERTIFICATE

This is to certify that the project report entitled

**“REAL TIME MAINTAINING OF SOCIAL DISTANCE IN COVID 19 ENVIRONMENT USING OPENCV, DEEP LEARNING AND COMPUTER VISION”**

submitted by

**SUYASH YOGESH PARADKAR (71916202F)**  
**KOMAL RAJNIKANT GANATRA (71915946G)**  
**SHREYA NANDKISHOR TEKADE (72005136D)**  
**SALONI SATISH SARWADE (71916164K)**

is a bonafide work carried out by them under the supervision of **Prof. Rahul H. Bhole** 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 Engineering).

**(Prof. Rahul H. Bhole)**

Guide

Department of Information  
Technology Engineering

**(Prof. Rahul H. Bhole)**

Head

Department of Information  
Technology Engineering

**(Dr. Ajit M. Kate)**

Principal

Zeal College of Engineering & Research, Pune-41

Place : Pune

Date :30/05/2022





## CERTIFICATE

This is to certify that the project report entitled  
**“FUNLEARNAR: AN AUGMENTED REALITY IN EDUCATION”**

Submitted by

SASHA RAHANE

PRN NO: 71916132M

ROHIT MATE

PRN NO: 71831597K

SHAMBHAVI KADAM

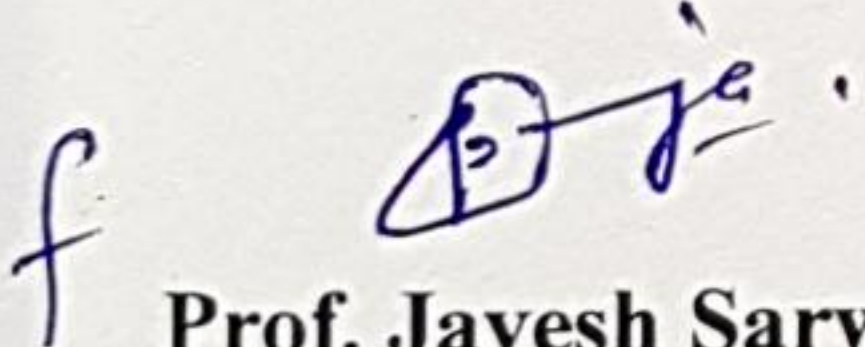
PRN NO: 71915995E

AKASH GAIKWAD

PRN NO: 71915941F

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

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

  
**Prof. Jayesh Sarwade**

Project guide

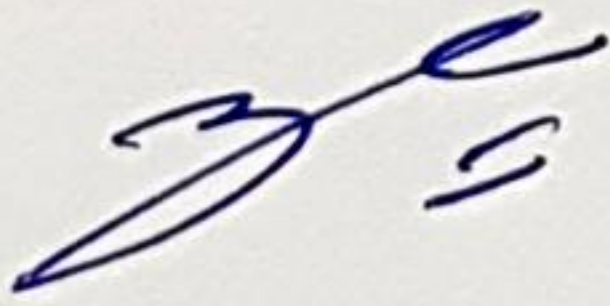
Department of Information Technology



**Prof. Rahul Bhole**

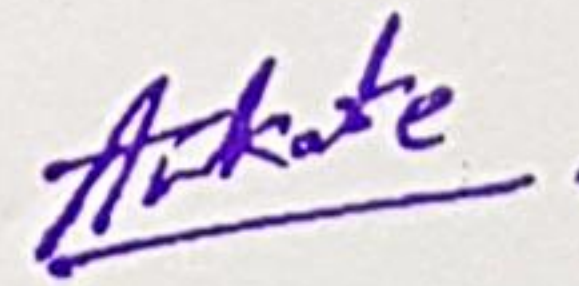
Head of Department

Department of Information Technology



External Examiner

Date: 30/05/2022



**Dr. A. M. Kate**

Principal

Zeal College of Engineering & Research

Place: Pune

Date: 30/05/2022





## CERTIFICATE

This is to certify that the project report entitled

### Banking Locker System

### Is Satisfactorily Completed By

Prachi Rajendra Bharne	B150538507
Siddhant Harbirkumar Chaudhary	B150538513
Tejal Prashant Joshi	B150538535
Mansi Rahul Shah	B150538568

is a bonafide student of this institute and the work has been carried out by him/her under the supervision of **Prof. Punam Chavan** 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).

**Prof. Punam Chavan**

Guide

**Prof. Rahul Bhole**

HOD

**Dr. Ajit M. Kate**

Principal.

Date:- 30/05/2022

Place:- Pune



## Certificate

This is to certify that the project report entitled


### **Fingerprint Authentication on Web Services**


#### **Submitted by**


Abhijeet Suresh Ombase	B150538551
Sahil Sunil Nagane	B150538548
Suraj Satish Kharade	B150538539
Nisha Raju Bhondwe	B150538509

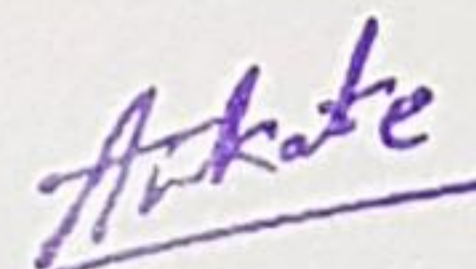
is a Bonafide work carried out by them under the supervision of **Prof. Vidya Kantale** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University for the award of the **Degree of Bachelor of Engineering**(Information Technology)

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

  
f **Prof. Vidya Kantale**  
Project Guide

  
**Prof. Rahul Bhole**  
HOD

  
External Examiner

  
**Dr. Ajit Kate**  
Principal

Date: 30 May 2022

Place: Pune





## CERTIFICATE

This is to certify that the project report entitled

**Stock Market Prediction Using LSTM**

Submitted by

GHEWARE SAURABH SUNIL

B150538526

MOOLYA ABHISHEK DODDANNA

B150538547

RAJPURE ABHAY KAILAS

B150538559

THOOL ABHINAV PRAVIN

B150538575

is a bonafide student of this institute and the work has been carried out by him/her under the supervision of **Prof. Ankita 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 (Information Technology)

**Prof. Ankita Patil**

Guide

**External Examiner**

Date :-

**Prof. Rahul Bhole**

HOD

**Dr. Ajit M. Kate**

Principal





## CERTIFICATE

This is to certify that the project report entitles

**“AUTOMATIC HELMET & NUMBER PLATE DETECTION SYSTEM”**

### Submitted By

SAKSHI DESHMUKH

B150538563

SHWETA GHATGE

B150538571

KUSUM KARANDE

B150538538

SAMRUDDHI DEO

B150538515

are bonafide students of this institute and the work has been carried out by them under the supervision of **Prof. Mrs Jyotsna Nanajkar** 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 (IT ENGINEERING).

**Prof. Jyotsna Nanajkar**

Internal Guide  
Dept. of IT Engineering

**External Examiner**

**Prof. Rahul Bhole**

Head Of Department  
Dept. IT Engineering

**Dr. A M Kate**  
Principal  
ZCOER, Pune

Place : Pune

Date : 30/05/2022





## CERTIFICATE

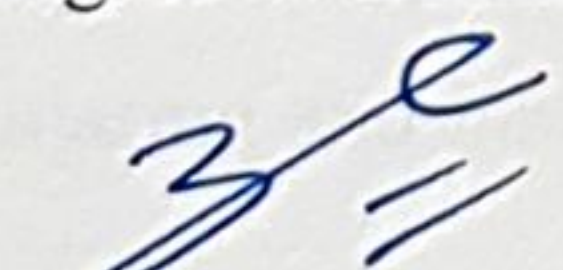
This is to certify that the project phase-II report entitled

**Detecting Password Brute Force Attack And Protecting The Cloud Data With  
AES Encryption Algorithm**

Submitted by

Pankaj Dhapade	B150538518
Tejas Jadhav	B150538530
Shubham Shete	B150538569
Saurabh Mandavkar	B150538543

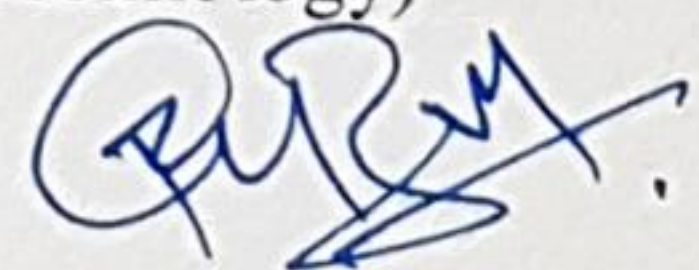
is a bonafide student of this institute and the work has been carried out by him/her under the supervision of **Prof. Dr. Swapnaja Ubale** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of Bachelor of Engineering (Information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

  
**Dr. Swapnaja Ubale**

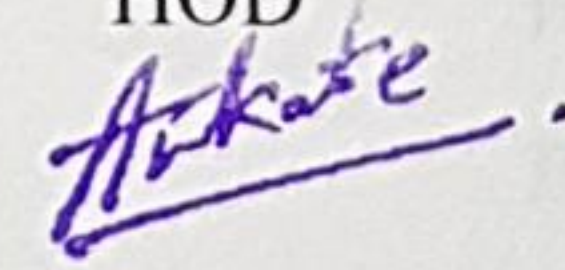
Guide

  
**External Examiner**

Date

  
**Prof. Rahul Bhole**

HOD

  
**Dr. A.M. Kate**

Principal





## CERTIFICATE

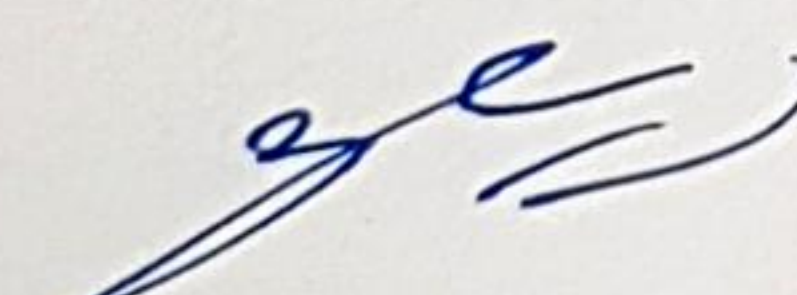
This is to certify that the project phase-II report entitled

### **Data Anonymization Using AES Algorithm and Fernet**

Submitted by

Atharva Prabhune	B150538557
Tejas Bhasme	B150538508
Omkar Bartakke	B150538505
Anant Khot	B150538540

is a bonafide student of this institute and the work has been carried out by him/her under the supervision of **Prof. Dr. Swapnaja Ubale** 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)

  
**Dr. Swapnaja Ubale**

Guide

  
**External Examiner**

Date 30/05/2022

  
**Prof. Rahul Bhole**

HOD

  
**Dr. A.M. Kate**

Principal





## CERTIFICATE

This is to certify that the project report entitled

### CRIME DETECTION USING NEURAL NETWORKS

Submitted by

Swaranjali V. Bichukale	B150538511
Christina G. Nandigam	B150538514
Vinisha G. Gomare	B150538527
Nayana G. Joshi	B150538534

is a bonafide work carried out by them under the supervision of Prof. R. H. Bhole 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).

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

Prof. R. H. Bhole  
Internal Guide  
Department of Information Technology

External Examiner

Prof. R. H. Bhole  
Head of Department  
Department of Information Technology

Dr. A. M. Kate  
Principal  
Zeal College of Engineering & Research

Place:

Date:





## CERTIFICATE

This is to certify that the project report entitled " **Plant Disease Detection using leaf images using Deep learning**"

### SUBMITTED BY

**Aditya Shinde**

**B150538570**

**Tejas Raykar**

**B150538561**

**Prafulla Patil**

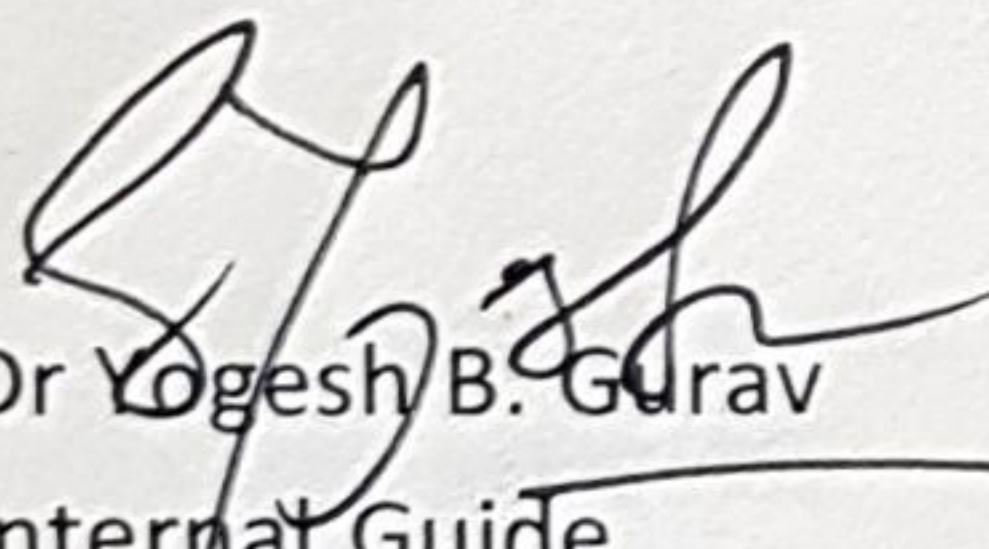
**B150538555**

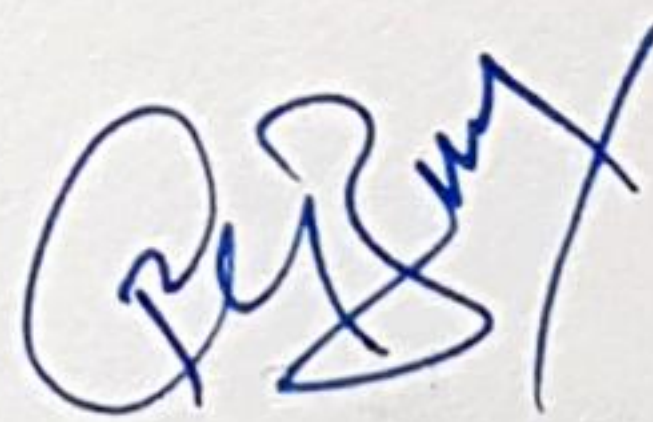
**Harshvardhan Mali**

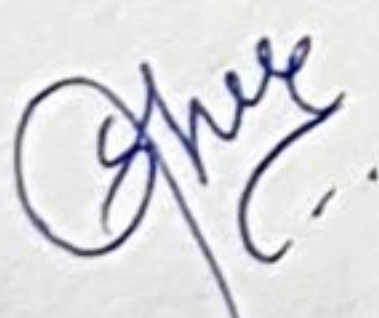
**B150538542**

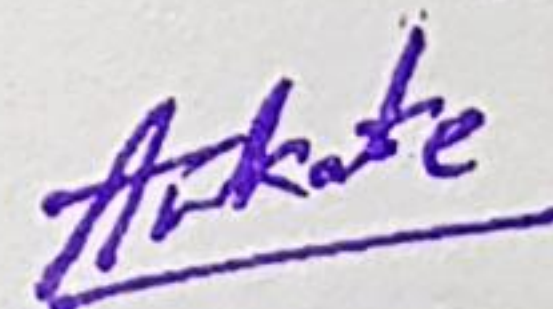
is a bonafide work carried out by them under the supervision of Dr. Yogesh B. Gurav and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University for the award of the Degree of Bachelor of Engineering (Information Technology).

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

  
Dr. Yogesh B. Gurav  
Internal Guide  
Department Of Information Technology

  
Prof. Rahul Bhole  
Head Of Department  
Department Of Information, Technology

  
External Examiner  
Date: 30/5/2022

  
Dr. A.M. Kate  
Principal  
Zeal College Of Engg. and Research

Date: 30/5/2022  
Place: Pune





## CERTIFICATE

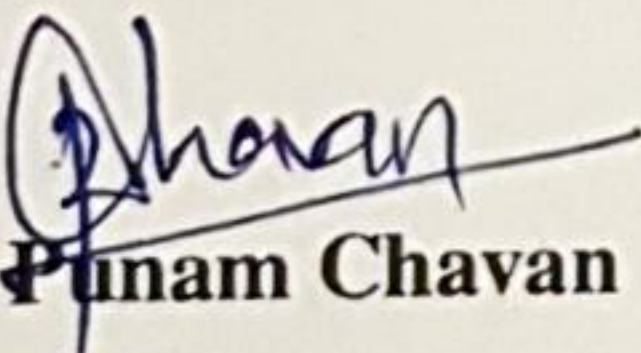
This is to certify that the project report entitled

### **IoT Based Smart Crop Field Monitoring And Automation Irrigation System**

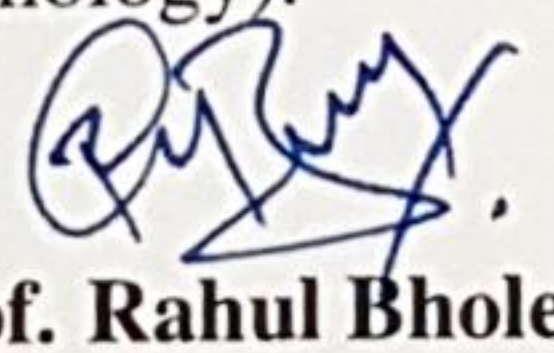
#### **Is Satisfactorily Completed By**

Shubham Bhujbal	B150538510
Mayuri Gharge	B150538525
Sarvesh Itnare	B150538528
Mrunal Marne	B150538545

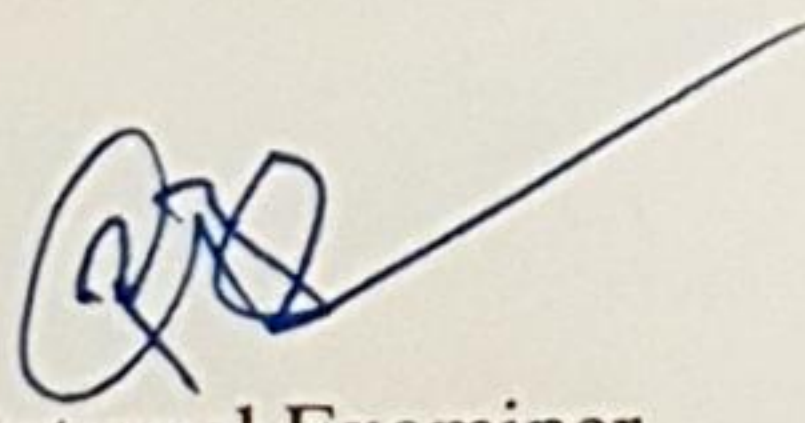
is a bonafide student of this institute and the work has been carried out by him/her under the supervision of **Prof. Punam Chavan** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of Bachelor of Engineering (Information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

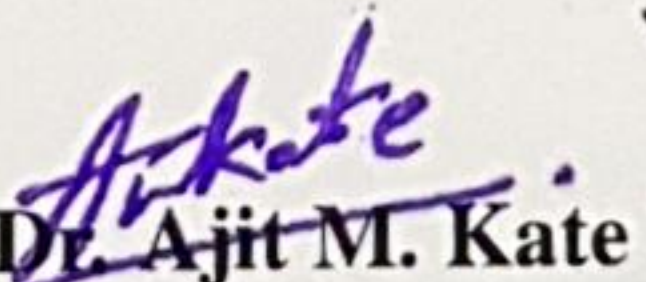
  
**Prof. Punam Chavan**

Guide

  
**Prof. Rahul Bhole**

HOD

  
External Examiner

  
**Dr. Ajit M. Kate**

Principal.

Date:- 01/06/2022

Place:- Pune





## CERTIFICATE

This is to certify that the project report entitled " **Deep Learning for Early Detection of Breast Cancer using Histopathological Images**"

### SUBMITTED BY

**Aditya Pandhare**

**B150538552**

**Tejas Nandpatil**

**B150538550**

**Akshay Patil**

**B150538554**

**Satish Zore**

**B150538579**

is a bonafide work carried out by them under the supervision of Prof. Pooja S. Ingole 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).

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

Prof. Pooja S. Ingole  
Internal Guide  
Department Of Information Technology

Prof. Rahul Bhole  
Head Of Department  
Department Of Information Technology

External Examiner  
Date: 30/05/2022

Dr.A.M.Kate  
Principal  
Zeal College Of Engg. and Research

Date: 30/05/2022  
Place: Pune.






This is to certify that the project entitled “Traffic Signal Management System”

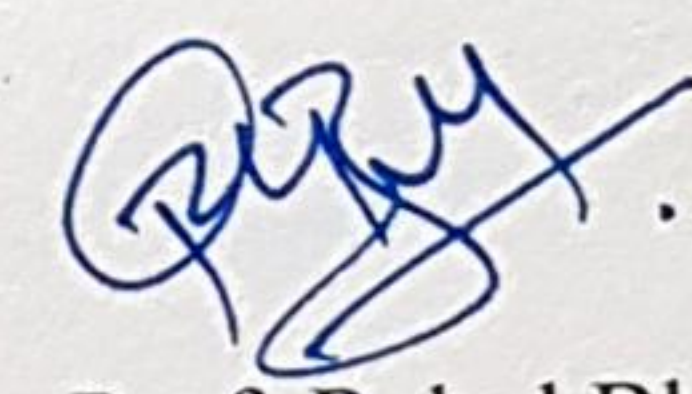
SUBMITTED BY

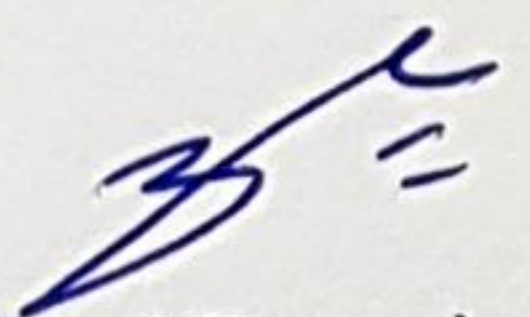
Devkar Pragati Baban	B511017
Awate Pooja Eknath	B511004
Jankar Swaraj Swarupkumar	B511035
Tambe Snehal Dattatray	B511073

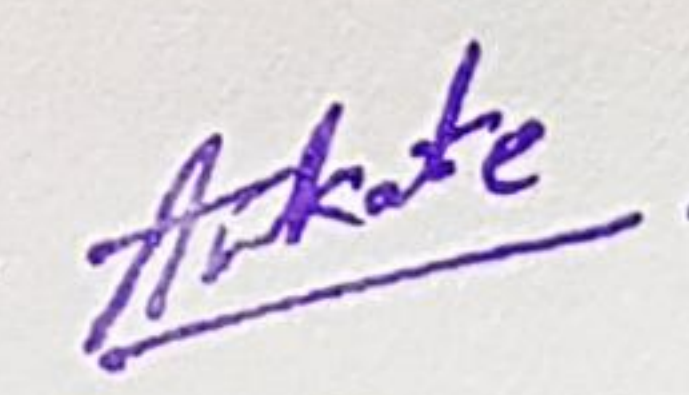
is a bonafide work carried out by them under the supervision of Prof. Vidhya dhoke and it is approved for the partial fulfilment of the requirement of Savitribai Phule Pune University for the award of the Degree of Bachelor of Engineering (Information Technology).

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

  
Prof. Vidhya Dhoke  
Internal Guide  
Department Of Information Technology

  
Prof. Rahul Bhole  
Head Of Department  
Department Of Information Technology

  
External Examiner  
Date:

  
Dr.A.M.Kate  
Principal  
Zeal College Of Engg. and Research

Date: 30/5/2022  
Place: Pune





## CERTIFICATE

This is to certify that the project report entitled "SMART PARKING SYSTEM USING IOT"

### SUBMITTED BY

**Gayatri Abhang B150538501**

**Vaishnavi Ahirrao B150538502**

**Anuja Waghmare B150538577**

**Vaibhav Wani B150538578**

is a bonafide work carried out by them under the supervision of Prof. Ankita Patil 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).

  
**Prof. Ankita Patil**

Internal Guide

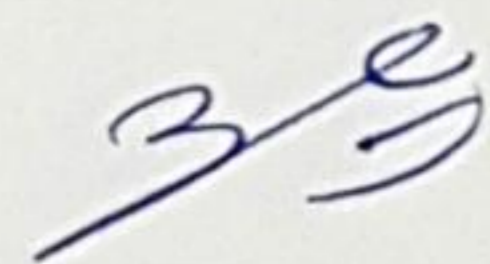
Department Of Information Technology



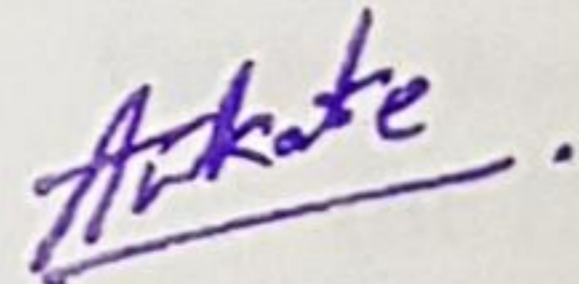
**Prof. Rahul Bhole**

Head Of Department

Department Of Information Technology

  
External Examiner

Date: Place:



**Dr. A.M. Kate**

Principal

Zeal College Of Engg. and Research





## CERTIFICATE

This is to certify that the project report entitled

**“DETECTION OF PHISHING WEBSITES USING ML”**

### Submitted By

**VAISHNAV VISHWANATH  
SHWETA DHANDE  
BOKARE RUTUJA  
BHANDARE PAVITRA**

**EXAM SEAT NO: B150538576  
EXAM SEAT NO: B150538517  
EXAM SEATNO: B150538512  
EXAM SEAT NO: B150538506**

is a bonafide student of this institute and the work has been carried out by him under the supervision of **Prof. Ankita 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 (IT ENGINEERING).

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

**Prof. Ankita Patil**  
Internal Guide  
Dept. of IT Engineering

**Prof. Rahul Bhole**  
Head of Department  
Dept. IT Engineering

**Dr. A M Kate**  
Principal  
ZCOER, Pune

External Examiner

Place:

Date:





### CERTIFICATE

This is to certify that the project report entitled "Sentiment Analysis Based on Twitter"

### SUBMITTED BY

Ajinkya Jadhav-B150538529

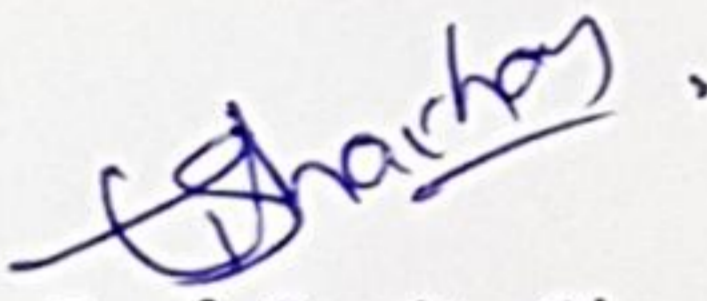
Tahir Maner-B150538544

Siddhant Gaund-B150538523

Anees Mulla-B150538503


is a bonafide work carried out by them under the supervision of Prof. Sunita Chavan 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).

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

  
Prof. Sunita Chavan

Internal Guide

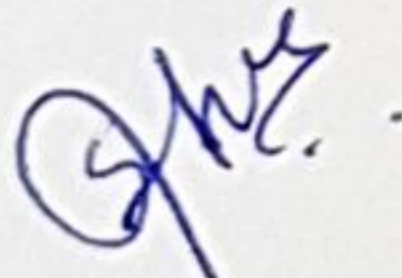
Department Of Information Technology



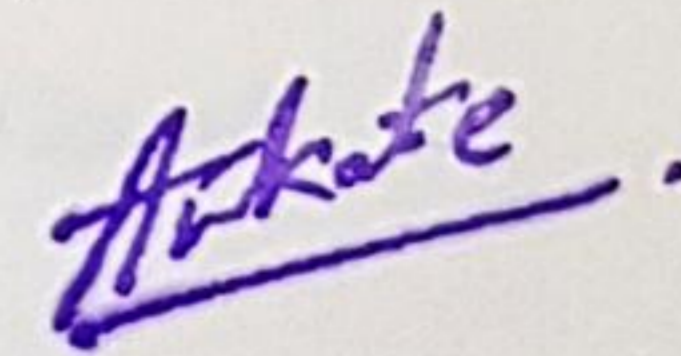
Prof. Rahul Bhole

Head of Department

Department of Information Technology



External Examiner



Dr. A. M. Kate

Principal

Zeal College of Engineering and Research

Date: 30/05/2022

Place: Pune





## CERTIFICATE

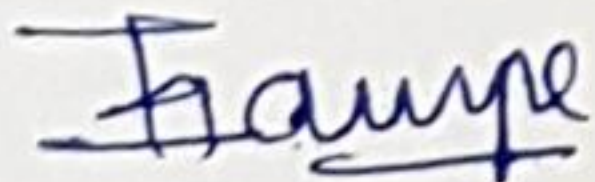
This is to certify that the project phase-II report entitled

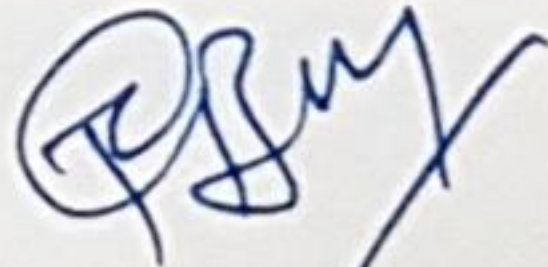
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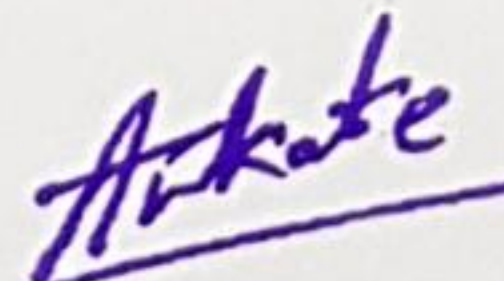
Submitted by

Vaibhav Dhoble	B150538519
Pratiksha Jagdale	B150538531
Rohan Jinde	B150538533
Saatvik Gawade	B150538562

is a bonafide student of this institute and the work has been carried out by him/her under the supervision of **Prof. Tejaswini Girish Hampe** 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)

  
**Prof. Tejaswini Girish Hampe**  
Guide

  
**Prof. Rahul Bhole**  
HOD

  
**Dr. Ajit M. Kate**  
Principal.





## CERTIFICATE

This is to certify that the project report entitles  
" **Depression Detection Using Machine Learning**  
"

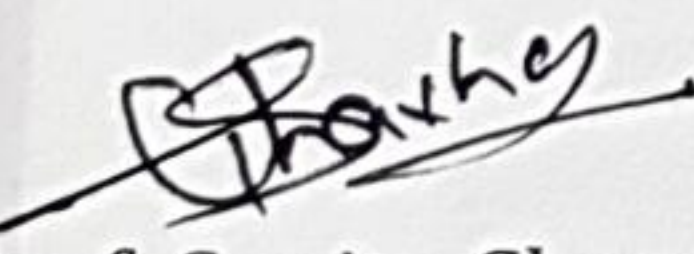
### SUBMITTED BY

**Rahul Singh**  
**Apoorva Divekar**  
**Saudyna Sawant**

**B511072**  
**B511021**  
**B511068**

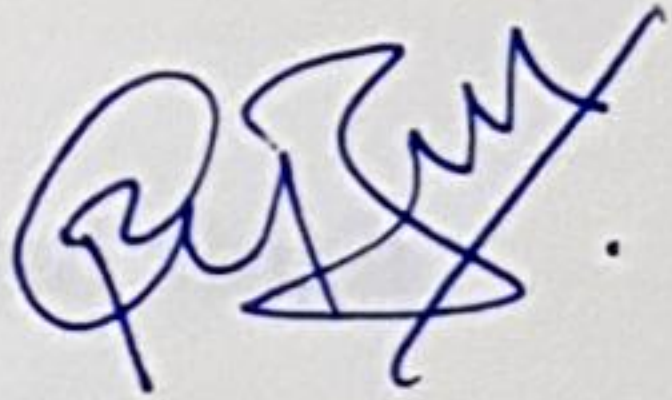
is a bonafide work carried out by them under the supervision of **Prof. Sunita Chavan** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University for the award of the Degree of Bachelor of Engineering (Information Technology).

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Prof. Sunita Chavan

Guide

Department of Information Technology

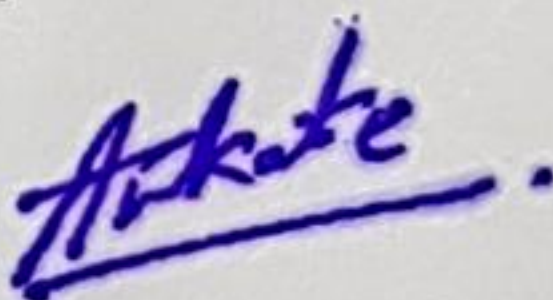
  
Prof. Rahul Bhole  
Head of Department

Department of Information Technology

  
External Examiner

Date:

Place:



Dr.A.M.Kate

Principal

Zeal College Of Engineering and  
Research