



**BHARATI VIDYAPEETH'S
COLLEGE OF ENGINEERING FOR WOMEN, PUNE**

Pune-Satara Road, Dhankawadi, Taluka – Haweli, Dist.- Pune

Accredited by NAAC, Affiliated to Savitribai Phule Pune University (SPPU)

Approved by DTE. Govt. Of Maharashtra and AICTE, New Delhi

DTE Institute Code-EN6285, Pun Code-PU/PN/Engg. /150/2000

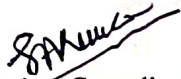
E-mail: -coewpune@bharatividyaapeeth.edu Website: - <http://coewpune.bharatividyaapeeth.edu>


DEPARTMENT OF COMPUTER ENGINEERING

PROJECT LIST Academic Year 2023-24

Sr. No.	Project ID	Names of Student	Project Title	Project Domain	Name of Guide
1	1	Shweta Jadhav	SHOPSTOCK: Smart Inventory Management system using deep learning	Data science	Prof. P.D.Kale
		Ankita Kanawade			
		Tanvi Mahajan			
		Samruddhi Shete			
2	2	Sanah Naik	ECG Report analysis and anomaly detection using Machine Learning	Machine Learning	Prof. V.D.Kulkarni
		Ankita Ochani			
		Sakshi Pratap			
		Suruchi Bibikar			
3	3	Bagwan Julekha	Image forgery detection using Deep Learning	Data Science	Prof. D.D. Pukale
		Jagdale Pranali			
		More Sanjivani			
		Sarmokdam Renuka			
4	4	Rajlaxmi Manepatil	Web based application for flood hazard mapping using satellite data	ML and Web Development.	Prof.Dr. S.P.Kadam
		Ahilya Bandgar			
		Chanchal Bundeale			
		Tanmayii Chavan			
5	5	Bhakti Patil	Prediction analysis of prosthodontics using deep learning techniques	Machine Learning and Web Development	Prof. K.S.Warke
		Wagisha Raj			
		Sanchita Ola			
		Shraddha Tandel			
6	6	Divya Ravindra Ingale	Face detection and recognition for criminal identification system	Machine Learning	Prof. K.D.Yesugade
		Shruti Dipak Karad			
		Shravani Ravindra Mahabadi			
		Apurva Sanjay Pongade			
7	7	Pranjal Suryvanshree	Real time weather monitoring Information system	web development & machine learning	Prof.Dr. S.P.Kadam
		Vaishnavi Pasalkar			
		Tannvi Sanekar			
		Aditi Patil			
8	8	Sandhya Bhakare	Lane and Speed Breaker Warning System for Vehicles	Machine Learning	Prof. K.S.Sawant
		Puja Bharane			
		Prachi Borse			
		Anuja Naphade			
9	9	Wagh Mrunalini Dattatray	AI generated and Human audio detection	Machine Learning	Prof. K.S.Warke
		Dandgavale Ketki Mahesh			
		Mundhe Anjali Vasantrao			
		Choughule Siddhi Raju			

10	10	Vaishnavi Shinde	Depression analysis using Social Media post	Cloud computing & Artificial intelligence	Prof. Dr. S.A.Pawar
		Divya Rane			
		Akanksha Ranpise			
		Ridhima Bhat			
11	11	Divya Gaikwad	Car Loan Web Application using Cryptography	Artificial intelligence	Prof. A.P.Kadam
		Sejal Gholap			
		Amruta Hedgire			
		Sakshi Jagtap			
12	12	Khushi Gangrade	WeatherNOVA:Deep Learning powered image Retrieval for weather analysis	Augmented Reality	Prof. D.D. Pukale
		Purva Nagrale			
		Siddhi pasalkar			
		Sakshi Purvant			
13	13	Sejal Bora	Identifying security threats and legitimate status	Machine Learning	Prof. K.S.Sawant
		Mahak chawla			
		Prajakta khairnar			
		Shravani Thakare			
14	14	Drishti Shah	Optimal plant disease classification based on vision transformer algorithm	Machine Learning	Prof.S.A. Karande
		Aqsa Shaikh			
		Madhvi Sharma			
		Sanjana Upase			
15	15	Vrushali Bhagwat	A system to identify threats on social media conversation and to predict preliminary legal actions	Machine learning and app/web development	Prof. V.D.Kulkarni
		Anjana Patil			
		Shubhangi Kumari			
		Suneha deep Kour			
16	16	Arati Nalawade	Image caption generator using Deep Learning	Web development & ML	Prof. S.A. Karande
		Prajakta Rupanavar			
		Pooja Salave			
		Aishwarya Badgujar			
17	17	Aditi Ahire	Diet recommendation system using machine learning	Machine Learning And Web development	Prof. P.D.Kale
		Pratisha Bhise			
		Kundan Binnar			
		Sakshi Datir			
18	18	Shubhangi Divate	Vision based empty shelf space detection in retail application with Telegram notification to staff	Artificial intelligence of Application Development	Prof.Dr. S.A.Pawar
		Vaishnavi Parab			
		Sakshi Sonavane			
		Shruti Thakur			
19	19	Mayuri Mane	Deep Learning Techniques for detection of myopic disorders	Artificial intelligence	Prof. K.D.Yesugade
		Sanika Sasane			
		Neha Wadkar			
		Shreya Yadav			
20	20		Blockchain - Powered certificate authentication : A Decentralized approach with IPFS integration.	Cyber Security and Ethical Hacking	Prof. A.P.Kadam
		Madura Dixit			
		Anisha Kothare			
		Shevali Sarwade			


Project Co-ordinator
Prof.S.A. Karande


HOD
HEAD
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.



CERTIFICATE

This is to certify that the project report entitles

"OBJECT DETECTION FOR INVENTORY STOCK COUNTING USING YOLO"

Submitted by

STUDENT NAME:

MISS. SHWETA GORAKSHA JADHAV

MISS. ANKITA KAILAS KANAWADE

MISS. TANVI PRAMOD MAHAJAN

MISS. SAMRUDHI PRASHANT SHETE

EXAM NO:

B190344222

B190344225

B190344232

B190344262

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

(Computer Engineering).

(Prof. P. D. Kale)

Guide

Department of Computer Engineering

HEAD
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

(Prof. D. D. Pukale)

STUDENT NAME Head,

Department of Computer Engineering

(Dr. S. R. Patil)

I/C Principal,

Bharati Vidyapeeth's College of Engineering for Women

Place: Pune

Date: 24/11/2023

प्रभारी प्राचार्य
भारती विद्यापीठाचे
महिला अभियांत्रिकी महाविद्यालय
पुणे-सातारा रोड, पुणे-४११ ०४३



CERTIFICATE

This is to certify that the Project Entitled

ECG ANALYZER USING MACHINE LEARNING

Submitted by

SANAH NAIK

EXAM SEAT NO: B190344238

ANKITA OCHANI

EXAM SEAT NO: B190344240

SAKSHI PRATAP

EXAM SEAT NO: B190344254

SURUCHI BIBIKAR

EXAM SEAT NO: B190344267

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

Guide

Dept. Comp Eng.

(Prof. B.D. Pukale)

HOD

HEAD

Dept. Comp Eng.
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

(Dr. S.R. Patil)

I/C Principal,

Bharati Vidyapeeth's College of Engineering for Women

प्रभारी प्राचार्य

भारती विद्यापीठाचे

महिला अभियांत्रिकी महाविद्यालय
पुणे-सातारा रोड, पुणे-४११ ०४३

Place:

Date:



CERTIFICATE

This is to certify that the project report entitles
“IMAGE FORGERY DETECTION USING DEEP LEARNING”

Submitted by

BAGWAN JULEKHA MUJIM

EXAM SEAT NO: - B190344204

JAGADALE PRANALI MAHADEO

EXAM SEAT NO: - B190344223

MORE SANJIVANI SHIVAJI

EXAM SEAT NO: - B190344236

SARMOKDAM RENUKA UDAY

EXAM SEAT NO: - B190344257

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

(Prof. D.D. Pukale)

Guide

Department of Computer Engineering

(Prof. D.D. Pukale)

Head,

Department of Computer Engineering
B.V.'s College of Engineering
for Women, Pune-411043

(Prof. Dr. S.R. Patil)

I/C Principal,

Bharati Vidyapeeth's College of Engineering for Women

Place: Pune

Date

20th Nov 2023

प्रभारी प्राचार्य
भारती विद्यापीठाचे
महिला अभियांत्रिकी महाविद्यालय
पुणे-सातारा रोड, पुणे-४११ ०४३



CERTIFICATE

This is to certify that the project report entitles

“ WEB BASED TOOL FOR FLOOD HAZARD MAPPING ”

Submitted by

STUDENT NAME:

BANDGAR AHILYA PANDURANG

BUNDELE CHANCHAL PRABHAKAR

CHAVAN TANMAYI PRASHANT

MANEPATIL RAJLAXMI UDAY

EXAM NO :

B190344205

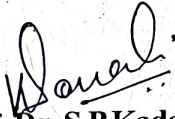
B190344212

B190344213

B190344235

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

Guide

Department of Computer Engineering


(Prof. D.D. Pukale)

Head,

Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043,



(Dr. S.R. Patil)

I/C Principal,

Bharati Vidyapeeth's College of Engineering for Women

Place : Pune

Date :

प्रधानी प्राचार्य
भारती विद्यापीठाचे
महिला अभियांत्रिकी महाविद्यालय
पुणे-सातारा रोड, पुणे-४११ ०४३



CERTIFICATE

This is to certify that the Project Entitled

PREDICTION ANALYSIS OF PROSTHODONTICS USING

DEEP LEARNING

Submitted by

PATIL BHAKTI

EXAM SEAT NO: B190344245

WAGISHA RAJ

EXAM SEAT NO: B190344248


SANCHITA OLA

EXAM SEAT NO: B190344256


SHRADDHA TANDEL

EXAM SEAT NO: B190344269


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

Guide
Dept. Comp Eng.


(Prof. D.D. Pukale)

Head
HEAD
Dept. Comp Eng.
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.


(Dr. S.R. Patil)

I/C Principal,

Bharati Vidyapeeth's College of Engineering for Women

प्रभारी प्राचार्य
भारती विद्यापीठाचे
महिला अभियांत्रिकी महाविद्यालय
पुणे-सातारा रोड, पुणे-४११ ०४३

Place: Pune

Date: 22/11/23



CERTIFICATE

This is to certify that the Project Entitled

FACE DETECTION AND RECOGNITION FOR CRIMINAL

IDENTIFICATION SYSTEM

Submitted by

DIVYA INGALE

EXAM SEAT NO: B190344221

APURVA PONGADE

EXAM SEAT NO: B190344246

SHRUTI KARAD

EXAM SEAT NO: B190344226

SHRAVANI MAHABARE

EXAM SEAT NO: B190344231

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

Guide

Dept. Comp Eng.

(Prof. D.B. Pukale)

Head

Dept. Comp Eng.
HEAD
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

(Dr. S.R. Patil)

I/C Principal,

Bharati Vidyapeeth's College of Engineering for Women

प्रभारी प्राचार्य

भारती विद्यापीठाचे

महिला अभियांत्रिकी महाविद्यालय

पुणे-सातारा रोड, पुणे-४११ ०४३

Place:

Date:



CERTIFICATE

Department of Computer Engineering

This is to certify that,

Aditi Patil

Tannvi Sanekar

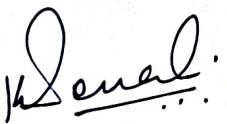
Pranjal Suryavanshi


Vashnavi Pasalkar

have successfully completed this project report entitled “**Real Time Weather Monitoring Information System**” under my guidance in **partial fulfilment** of the requirements for the **degree of Bachelor of Engineering** in the Department of Computer Engineering of Savitribai Phule Pune University during the academic year 202324.


Date:

Place: Pune


Prof. Dr. Sonali Kadam
Guide


Prof. Dr. S. R. Patil
Principal

प्रभारी प्राचार्य
भारती विद्यापीठ


Prof. D.D. Patil
Head of the Department
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

This project report is examined by ~~महिला अध्यापिका~~ Savitribai Phule Pune University, Pune requirements at Bharati Vidyapeeth's ~~पुणे-411043~~ ~~पुणे-411043~~ for Women, Pune 43 on

Internal Examiner

External Examiner

CERTIFICATE




This is to certify that the project report entitles

“LANE AND SPEED BREAKER WARNING SYSTEM FOR VEHICLES”


Submitted by

ANUJA NAPHADE	B190344202
SANDHYA BHAKARE	B190344207
PRACHI BORSE	B190344211
PUJA BHARANE	B190344247

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

Department of Computer Engineering


Prof. D. D. Pukale
Head

Department of Computer Engineering
BV's College of Engineering
for Women, Pune-411043.


Dr. S. R. Patil
I/C Principal,

Bharati Vidyapeeth's College of Engineering for Women

Place: Pune

Date:

प्रभारी प्राचार्य
भारती विद्यापीठाचे
महिला अभियांत्रिकी महाविद्यालय
पुणे-सातारा रोड, पुणे-४११ ०४३



CERTIFICATE

This is to certify that the Project Report Entitles

AI GENERATED AND MANIPULATED AUDIO DETECTION

Submitted by

MISS. SIDDHI RAJU CHOUGHULE (72147972D)
MISS. KETKI MAHESH DANDGAVALA (72147975J)
MISS. ANJALI VASANTRAO MUNDHE (72148059E)
MISS. MRUNALINI DATTATRAY WAGH (72148151F)

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

Department of Computer Engineering

Prof. D. D. Pukale
H. O. D.

Department of Computer Engineering
HEAD
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

Prof. Dr. S. R. Patil
I/C Principal,

Bharati Vidyapeeth's College of Engineering for Women

Place: Pune

Date: 23/11/2023

प्रभारी प्राचार्य
भास्ती विद्यापीठाचे
महिला अभियांत्रिकी महाविद्यालय
पुणे-सातारा रोड, पुणे-४११ ०४३



CERTIFICATE

This is to certify that the Project Entitled

Depression Analysis Through Social Media Submitted by

MISS. RANE DIVYA SURENDRA

B190344249

MISS. AKANKSHA DNYANESHWAR RANPISE

B190344250


MISS. RIDHIMA BHAT

B190344251

MISS. VAISHNAVI BALASAHEB SHINDE


B190344263

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

Guide

Dept. Comp Eng.


(Prof. D.D. Pukale)

HOD

Dept. Comp Eng.

HEAD

Computer Engg. Department
B's College of Engineering
for Women, Pune-411043.


(Dr. S.R. Patil)

I/C Principal,

Bharati Vidyapeeth's College of Engineering for Women

प्रभारी प्राचार्य
भारती विद्यापीठाचे
महिला अभियांत्रिकी महाविद्यालय
पुणे-सातारा रोड, पुणे-४११ ०४३

Place: Pune

Date: 23/11/2023



CERTIFICATE

This is to certify that the Project Entitled

"DEVELOPMENT OF CAR LOAN WEB APPLICATION USING CRYPTOGRAPHY"

Submitted by

DIVYA GAIKWAD

EXAM SEAT NO: B190344218

SEJAL GHOLAP

EXAM SEAT NO: B190344219

AMRUTA HEDGIRE

EXAM SEAT NO: B190344220

SAKSHI JAGTAP

EXAM SEAT NO: B190344224

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


(Prof. A. P. Kadam)

Guide

Dept. Comp Eng.


(Prof. D. D. Pukale)

Head

HEAD

Computer Engineering Department
BV's College of Engineering,
for Women, Pune-411043,


(Dr. S. R. Patil)

I/C Principal,

Bharati Vidyapeeth's College of Engineering for Women,

Place: BVCOEW, Pune

Date: 22/11/23

प्रभारी प्राचार्य
भारती विद्यापीठाचे
महिला अभियांत्रिकी महाविद्यालय
पुणे-सातारा रोड, पुणे-४११ ०४३



CERTIFICATE

This is to certify that the project report entitled

“WeatherNova: Deep Learning-powered Image Retrieval for Weather Analysis”

Submitted by

KHUSHI GANGRADE (4232)

PURVA NAGRALE (4240)

SIDDHI PASALKAR (4246)

SAKSHI PURVANT (4251)

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

(Prof. D.D. Pukale)

Guide

Department of Computer Engineering

(Prof. D.D. Pukale)

Head,

Department of Computer Engineering

Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

(Prof. Dr. S.R. Patil)

I/C Principal,

Bharati Vidyapeeth's College of Engineering for Women

अभारी प्राचार्य

भारती विद्यापीठ

BVCOEW, Department of Computer Engineering-2023-24

पुणे-सातारा रोड, पुणे-४११ ०४३



CERTIFICATE

This is to certify that the Project Entitled

IDENTIFICATION OF SECURITY THREATS AND LEGITIMATE STATUS

Submitted by

SEJAL BORA

EXAM SEAT NO: B190344210

MAHAK CHAWLA

EXAM SEAT NO: B190344233

PRAJAKTA KHAIRNAR

EXAM SEAT NO: B190344227

SHRAVANI THAKARE

EXAM SEAT NO: B190344271

is a bonafide student of this institute and the work has been carried out by her under the supervision of Prof. K.S. Sawant 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. K.S. Sawant)
Guide
Dept. Comp Eng.

HEAD
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

(Prof. D.D. Pukale)
Head
Dept. Comp Eng.

(Dr. S.R. Patil)

I/C Principal,

Bharati Vidyapeeth's College of Engineering for Women

Place: **Pune**

Date: **22/11/23**

प्रभारी प्राध्यापक
भारती विद्यापीठाचे
महिला अभियांत्रिकी महाविद्यालय
पुणे-सातारा रोड, पुणे-४११ ०४३




CERTIFICATE


This is to certify that the project report entitles
PLANT DISEASE CLASSIFICATION BASED ON VISION TRANSFORMER

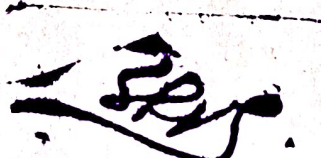
Submitted by

AQSA SHAIKH	EXAM SEAT NO: B190344261
SANJANA UPASE	EXAM SEAT NO: B190344273
MADHVI SHARMA	EXAM SEAT NO: B190344230
DRISHTI SHAH	EXAM SEAT NO: B190344260

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. S.A. Karande** 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.A. Karande)
Guide
Dept. Comp Eng.


(Prof. D.D. Pukale)
Head
Dept. Comp Eng.
HEAD
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.


(Dr. S.R. Patil)

I/C Principal,

Bharati Vidyapeeth's College of Engineering for Women

VC PRINCIPAL

Bharati Vidyapeeth's
College of Engineering for Women
Pune-Satara Road, Pune-411043

Place:

Date:



CERTIFICATE

This is to certify that the Project Entitled

A System to Identify Threats on Social Media Conversations and Providing Preliminary Legal Actions

Submitted by

VRUSHALI BHAGWAT

EXAM SEAT NO: B190344206

ANJANA PATIL

EXAM SEAT NO: B190344244

SHUBHANGI KUMARI

EXAM SEAT NO: B190344264

SUNEHA DEEP KAUR

EXAM SEAT NO: B190344266

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

Guide

Dept. Comp Eng.

(Prof. D.D. Pukale)

HOD

HEAD

Dept. Comp Engg
Computer Engg Department
BV's College of Engineering
for Women, Pune-411043.

(Dr. S.R. Patil)

I/C Principal,

Bharati Vidyapeeth's College of Engineering for Women

प्रभारी प्राचार्य

भारती विद्यापीठ

बहिला अभियांत्रिकी महाविद्यालय

पुणे-समता रोड, पुणे-४११ ०४३

Place:

Date:



CERTIFICATE

This is to certify that the project report entitles

'Image caption generator using Deep Learning'.

Submitted by

ARATI NALAVADE

EXAM SEAT NO: B190344239

PRAJAKTA RUPANAVAR

EXAM SEAT NO: B190344252

POOJA SALAVE

EXAM SEAT NO: B190344255

AISHWARYA BADGUJAR

EXAM SEAT NO: B190344204

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. S.A. Karande** 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. Shital Karande)

Guide,

Department of Computer Engineering


(Prof. D.D. Pukale)

Head,

Department of Computer Engineering
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043


(Dr. S.R. Pathi)

I/C Principal,

Bharati Vidyapeeth's College of Engineering for Women

Place: Pune

Date: 23-11-2023

प्रभारी प्राचार्य
भारती विद्यापीठाचे
महिला अभियांत्रिकी महाविद्यालय
पुणे-सातारा रोड, पुणे-४११ ०४३



CERTIFICATE

This is to certify that the project report entitles

“ DIET RECOMMENDATION SYSTEM ”

Submitted by

STUDENT NAME:

Exam No :

AHIRE ADITI RAJESH

B190344201

BHISE PRATIKSHA RAJENDRA

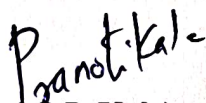
B190344208

BINNAR KUNDAN UTTAM

B190344209


DATIR SAKSHI VINAYAK

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

Guide

Department of Computer Engineering


(Prof. D.D.Pukale)

Head

Department of Computer Engineering
BV's College of Engineering
for Women, Pune-411043.


(Dr. S.R.Patil)

I/C Principal,

Bharati Vidyapeeth's College of Engineering for Women

Place : Pune

Date :

प्रभारी प्राचार्य
भारती विद्यापीठाचे
महिला अभियांत्रिकी महाविद्यालय
पुणे-सातारा रोड, पुणे-४११ ०४३



CERTIFICATE

This is to certify that the Project Report Entitles
**VISION BASED EMPTY SHELF SPACE DETECTION IN RETAIL APPLICATION
WITH TELEGRAM NOTIFICATION TO STAFF**

Submitted by


MISS. DIVATE SHUBHANGI SHAHISRAM (B190344216)

MISS. PARAB VAISHNAVI VIVEKANAND (B190344241)

MISS. SONAWANE SAKSHI AVINASH (B190344265)

MISS. THAKUR SHRUTI CHANDRASHEKHAR (B190344272)

is a bonafide student of this institute and the work has been carried out by him/her under the supervision of Prof. Dr. S. A. Pawar 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. S. A. Pawar.

Guide

Department of Computer Engineering


Prof. D. D. Pukale

H. O. D.

Department of Computer Engineering

HEAD

Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.


Prof. Dr. S. R. Patil

I/C Principal,

Bharati Vidyapeeth's College of Engineering for Women

I/C PRINCIPAL

Bharati Vidyapeeth's

College of Engineering for Women

Pune-Satara Road, Pune-411043

Place: Pune

Date: **22 / 11 / 2023**



CERTIFICATE

This is to certify that the Project Report Entitles

AUTOMATIC DETECTION OF PATHOLOGICAL MYOPIA AND HIGH MYOPIA ON FUNDUS IMAGES

Submitted by

MISS.MANE MAYURI DHANAJI (72148046C)

MISS.SASANE SANIKA SATISH (72148115K)

MISS.WADKAR NEHA LAXMAN (72148150H)

MISS.YADAV SHREYA BAJIRAO (72148154L)

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

Prof. K. D. Yesugade
Internal Guide
Dept. of Computer Engg.

Prof. D.D. Pukale
H.O.D **HEAD**
Dept. of Computer Engg. Department
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

Dr. S.R. Patil
I/C Principal,

Bharati Vidyapeeth's College of Engineering for Women

Place : Pune

Date :

प्रभारी प्राचार्य
भारती विद्यापीठचे
महिला अभियांत्रिकी महाविद्यालय
पुणे-सातारा रोड, पुणे-४११ ०४३



CERTIFICATE

This is to certify that the Project Entitled

Decentralized Blockchain based Result Generation and Verification System

MISS. MADURA SANJAY DIXIT (72147988L)

MISS. ANISHA AJAY KOTHARE (72148032C)

MISS. SHEVALI VILAS SARWADE (72148114M)

is a bonafide student of this institute and the work has been carried out by her under the supervision of Prof. A.P.Kadam 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) Project.


Prof. A.P.Kadam

Guide

Dept. Comp Eng.

HEAD
Computer Engg. Department
BV's College of Engineering
for Prof. D.D.Pukale
Pune-411043.

HOD

Dept. Comp Eng.


Dr. S.R.Patil

I/C Principal,

Bharati Vidyapeeth's College of Engineering for Women

प्रभारी प्राचार्य

भारती विद्यापीठाचे

महिला अभियांत्रिकी महाविद्यालय
पुणे-सातारा रोड, पुणे-४११ ०४३

Place: Pune

Date: 23/11/23



CERTIFICATE

This is to certify that the Project Report Entitles

DEEP LEARNING TECHNIQUES FOR DETECTION OF MYOPIC DISORDERS

Submitted by

MISS.MANE MAYURI DHANAJI

EXAM SEAT NO: B190344234

MISS.SASANE SANIKA SATISH

EXAM SEAT NO: B190344259

MISS.WADKAR NEHA LAXMAN

EXAM SEAT NO: B190344274

MISS.YADAV SHREYA BAJIRAO

EXAM SEAT NO: B190344275

is a bonafide work carried out by Students under the supervision of Prof. K. D. Yesugade and it is submitted towards the partial fulfillment of the requirement of Bachelor of Engineering (Computer Engineering) Project.

Prof. K. D. Yesugade
Internal Guide
Dept. of Computer Engg.

Prof. D.D. Pukale
H.O.D
Dept. of Computer Engg.

Prof. Dr. P. V. Jadhav
Principal,

Bharati Vidyapeeth's College of Engineering for Women, Pune

Place : Pune

Date :

PRINCIPAL
Bharati Vidyapeeth's
College of Engineering for Women
Pune-Satara Road, Pune-411043.

HEAD
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.



CERTIFICATE

This is to certify that the Project Entitled
**Blockchain-Powered Certificate Authentication: A Decentralized Approach with
IPFS Integration.**
Submitted by

MADURA DIXIT

EXAM SEAT NO: B190344217

ANISHA KOTHARE

EXAM SEAT NO: B190344229

SHEVALI SARWADE

EXAM SEAT NO: B190344258

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

(Prof. A.P. Kadam)

Guide

Dept. Comp Eng.

(Prof. D.D. Pukale)

H.O.D.

Dept. Comp Eng.

(Prof. Dr. P. V. Jadhav)

Principal,

HEAD
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

Bharati Vidyapeeth's College of Engineering for Women, Pune.

PRINCIPAL

Bharati Vidyapeeth's
College of Engineering for Women
Pune-Satara Road, Pune-411043.

Place: Pune

Date: 1/6/24



CERTIFICATE

This is to certify that the Project Report Entitles
**VISION BASED EMPTY SHELF SPACE DETECTION IN RETAIL
APPLICATION WITH TELEGRAM NOTIFICATION TO STAFF**


Submitted by

MISS. DIVATE SHUBHANGI SHAHISRAM	Exam No.: B190344216
MISS. PARAB VAISHNAVI VIVEKANAND	Exam No.: B190344241
MISS. SONAWANE SAKSHI AVINASH	Exam No.: B190344265
MISS. THAKUR SHRUTI CHANDRASHEKHAR	Exam No.: B190344272


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


Prof. Dr. S. A. Pawar
Guide

Department of Computer Engineering


Prof. Dr. P. V. Pukale
Head,

Department of Computer Engineering


Prof. Dr. P. V. Jadhav
Principal,

Bharati Vidyapeeth's College of Engineering for Women

Place: Pune

Date:

PRINCIPAL
Bharati Vidyapeeth's
College of Engineering for Women
Pune-Satara Road, Pune-411043.

HEAD
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.



CERTIFICATE

This is to certify that the project report entitles

" DIET RECOMMENDATION SYSTEM USING MACHINE LEARNING "

Submitted by

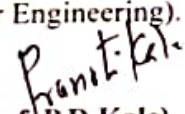
STUDENT NAME:

AHIRE ADITI RAJESH
BHISE PRATIKSHA RAJENDRA
BINNAR KUNDAN UTTAM
DATIR SAKSHI VINAYAK

Exam No :

B190344201
B190344208
B190344209
B190344292

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


Guide

Department of Computer Engineering


(Prof. D.B.Pukale)

Head,

Department of Computer Engineering


(Prof Dr. P. V. Jadhav)
Principal,

Bharati Vidyapeeth's College of Engineering for Women

PRINCIPAL

Bharati Vidyapeeth's
College of Engineering for Women
Pune-Satara Road, Pune-411043.

Place : Pune

Date : 1/6/2024

HEAD
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.



CERTIFICATE


This is to certify that the project report entitles

"Image Caption Generator Using Deep Learning"

Submitted by

STUDENT NAME	Exam No:
Aishwarya Badgujar	B190344203
Arati Nalavade	B190344239
Prajakta Rupanavar	B190344252
Pooja Salave	B190344255


is a bonafide student of this institute and the work has been carried out by him/her under the supervision of **Prof. Shital A. Karande** 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 Computer Engineering**


Prof. Shital A. Karande
Guide

Department of Computer Engineering


Prof. D.B. Pukale
Head


Department of Computer Engineering


Prof. Dr. P. V. Jadhav
Principal,

Bharati Vidyapeeth's College of Engineering for Women

PRINCIPAL

Bharati Vidyapeeth's
College of Engineering for Women
Pune-Satara Road, Pune-411043.

 **HEAD**
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

Place: Pune

Date: 01-06-2024

BVCOEW, Department of Computer Engineering



CERTIFICATE

This is to certify that the Project Entitled

A SYSTEM TO IDENTIFY THREATS ON SOCIAL MEDIA CONVERSATIONS AND PROVIDING PRELIMINARY LEGAL ACTIONS

Submitted by

VRUSHALI BHAGWAT

EXAM SEAT NO: B190344206

ANJANA PATIL

EXAM SEAT NO: B190344244

SHUBHANGI KUMARI

EXAM SEAT NO: B190344264

SUNEHA DEEP KOUR

EXAM SEAT NO: B190344266

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

Guide

Dept. Comp Eng.

(Prof. D.B. Pukale)

HOD

Dept. Comp Eng.

(Dr. P.V. Jadhav)

Principal,

Bharati Vidyapeeth's College of Engineering for Women

PRINCIPAL

Bharati Vidyapeeth's
College of Engineering for Women
Pune-Satara Road, Pune-411043.

HEAD
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

Place: Pune

Date: 01/06/24



CERTIFICATE


This is to certify that the project report entitles

PLANT DISEASE CLASSIFICATION BASED ON VISION TRANSFORMER


Submitted by

MADHVI SHARMA	EXAM SEAT NO: B190344230
DRISHITI SHAH	EXAM SEAT NO: B190344260
AQSA SHAIKH	EXAM SEAT NO: B190344261
SANJANA UPASE	EXAM SEAT NO: B190344273


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

Department Computer Engineering


Prof. D.D. Pukale
Head


Department Computer Engineering


Prof. Dr. P. V. Jadhav
Principal

Bharati Vidyapeeth's College of Engineering for Women

PRINCIPAL

Bharati Vidyapeeth's
College of Engineering for Women
Pune-Satara Road, Pune-411043.

 **HEAD**
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

Place: Pune

Date: 01-06-2024



CERTIFICATE

This is to certify that the Project Entitled
**IDENTIFICATION OF SECURITY THREATS AND
LEGITIMATE STATUS**

Submitted by

SEJAL BORA

EXAM SEAT NO: B190344210

MAHAK CHAWLA

EXAM SEAT NO: B190344233

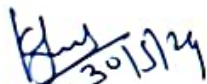
PRAJAKTA KHAIRNAR


EXAM SEAT NO: B190344227

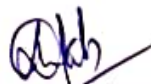
SHRAVANI THAKARE

EXAM SEAT NO: B190344271

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


(Prof. K.S. Sawant)
Guide
Dept. Comp Eng.


(Prof. Dr. P. V. Jadhav)
Principal,


(Prof. D.D. Pukale)
Head
Dept. Comp
Eng.

HEAD
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

Place: pune

Bharati Vidyapeeth's College of Engineering for Women

Date: 01/06/24

PRINCIPAL
Bharati Vidyapeeth's
College of Engineering for Women
Pune-Satara Road, Pune-411043.



CERTIFICATE

This is to certify that the Project Entitled

**WEATHERNOVA: DEEP LEARNING-POWERED IMAGE RETRIEVAL
FOR WEATHER ANALYSIS
Submitted by**

KHUSHI GANGRADE

EXAM SEAT NO: B190344228

SIDDHI PASALKAR

EXAM SEAT NO: B190344242

PURVA NAGRALE

EXAM SEAT NO: B190344237

SAKSHI PURVANT

EXAM SEAT NO: B190344253

are bonafide students of this institute and the work has been carried out by them under the supervision of Prof. D.D. Pukale 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. D.D. Pukale)

Guide

Dept. Comp Eng.

(Prof. D.D. Pukale)

HOD

Dept. Comp Eng.

(Dr. P.V. Jadhav)

Principal,

HEAD
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

Bharati Vidyapeeth's College of Engineering for Women

PRINCIPAL

Bharati Vidyapeeth's
College of Engineering for Women
Pune-Satara Road, Pune-411043.

Place: Pune

Date: 1/6/24



CERTIFICATE

This is to certify that the project report entitles

"DEVELOPMENT OF CAR LOAN WEB APPLICATION USING CRYPTOGRAPHY"

Submitted by

DIVYA GAIKWAD	B190344218
SEJAL GHOLAP	B190344219
AMRUTA HEDGIRE	B190344220
SAKSHI JAGTAP	B190344224

is a Bonafide students of this institute and the work has been carried out by her under the supervision of **Prof. A. P. Kadam** and it is approved for the fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering (Computer Engineering)**.

Prof. A. P. Kadam

Guide

Department of Computer Engineering

Prof. D. D. Pukale

Head

Department of Computer Engineering

Prof. Dr. R. V. Jadhav

Principal

Bharati Vidyapeeth's College of Engineering for Women

HEAD

Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

Place: Pune

Date:

PRINCIPAL

Bharati Vidyapeeth's
College of Engineering for Women
Pune-Satara Road, Pune-411043.



CERTIFICATE

This is to certify that the Project Entitled

Depression Analysis Through Social Media Posts

Submitted by

DIVYA RANE

EXAM SEAT NO: B190344249

AKANKSHA RANPISE

EXAM SEAT NO: B190344250

RIDHIMA BHAT

EXAM SEAT NO: B190344251

VAISHNAVI SHINDE

EXAM SEAT NO: B190344263

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

(Prof. J.D. Jadhav)

Guide

Dept. Comp Engg.

(Prof. D.D. Pukale)

HOD

Dept. Comp Engg.

(Dr. P.V. Jadhav)

Principal,

HEAD
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

Bharati Vidyapeeth's College of Engineering for Women

Place: **Pune.**

Date: **31-05-2024.**

PRINCIPAL
Bharati Vidyapeeth's
College of Engineering for Women
Pune-Satara Road, Pune-411043.



CERTIFICATE

This is to certify that the project report entitles.

"AI GENERATED AND HUMAN AUDIO DETECTION"

Submitted by

SIDDHI CHOUGHULE	Exam No: B190344214
KETKI DANDGAVAL	Exam No: B190344215
ANJALI MUNDHE	Exam No: B190344314

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

Prof. K. S. Warke
Guide,
Dpt. of Computer Engineering

Prof. D. D. Pukale
Head of
Dpt. of Computer Engineering

Prof. Dr. P. V. Jadhav
Principal,
BVCOEW, Pune.

HEAD
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

Place: Pune
Date: 01/06/24

PRINCIPAL
Bharati Vidyapeeth's
College of Engineering for Women
Pune-Satara Road, Pune-411043.



CERTIFICATE

This is to certify that the project report entitles

"LANE AND SPEED BREAKER WARNING SYSTEM FOR VEHICLES"

Submitted by

ANUJA NAPHADE	B190344202
SANDHYA BHAKARE	B190344207
PRACHI BORSE	B190344211
PUJA BHARANE	B190344247

is a bonafide students of this institute and the work has been carried out by her under the supervision of Prof. K. S. Sawant and it is approved for the fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of Bachelor of Engineering (Computer Engineering).

Prof. K. S. Sawant
Guide

Department of Computer Engineering

Prof. D. D. Pukale
Head

Department of Computer Engineering

Dr. P. V. Jadhav
Principal

HEAD
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

Bharati Vidyapeeth's College of Engineering for Women

PRINCIPAL

Bharati Vidyapeeth's
College of Engineering for Women
Pune-Satara Road, Pune-411043.

Place: Pune

Date: 01/06/2024



CERTIFICATE

This is to certify that the project report entitles

" REAL TIME WEATHER INFORMATION SYSTEM "

Submitted by

STUDENT NAME:

VAISHNAVI PASALKAR

PRANJAL SURYAVANSHEE

TANNVI SANEKAR

ADITI PATIL

EXAM NO:

B190344243

B190344268

B190344270

B190344276

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

Guide

Department of Computer Engineering

(Prof. D.D. Pukale)

Head,

Department of Computer Engineering

(Dr. Pradeep V. Jadhav)

Principal,

Bharati Vidyapeeth's College of Engineering for Women

HEAD
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

Place : Pune

Date : 11/6/24

PRINCIPAL

Bharati Vidyapeeth's
College of Engineering for Women
Pune-Satara Road, Pune-411043.



CERTIFICATE

This is to certify that the Project Entitled
**FACE DETECTION AND RECOGNITION FOR CRIMINAL
IDENTIFICATION SYSTEM**

Submitted by

DIVYA INGALE

EXAM SEAT NO: B190344221

SHRUTI KARAD

EXAM SEAT NO: B190344226

SHRAVANI MAHABARE

EXAM SEAT NO: B190344231

APURVA PONGADE

EXAM SEAT NO: B190344246

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

(Prof. K.D. Yesugade)

Guide

Dept. Comp Eng.

(Prof. D.D. Pukale)

H.O.D.

Dept. Comp Eng.

(Prof. Dr. P. V. Jadhav)

Principal,

HEAD
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

Bharati Vidyapeeth's College of Engineering for Women, Pune.

PRINCIPAL

Bharati Vidyapeeth's
College of Engineering for Women
Pune-Satara Road, Pune-411043.

Place: Pune

Date: 1/6/24



CERTIFICATE

This is to certify that the Project Entitled
**PREDICTION ANALYSIS OF PROSTHODONTICS USING
DEEP LEARNING**
Submitted by

PATIL BHAkti

EXAM SEAT NO: B190344245

WAGISHA RAJ

EXAM SEAT NO: B190344248

SANCHITA OLA

EXAM SEAT NO: B190344256

SHRADDHA TANDEL

EXAM SEAT NO: B190344269

is a Bonafide student of this institute and the work has been carried out by her under the supervision of Prof. K.S. Warke 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. K. S. Warke)

Guide
Dept. Comp Eng.


(Prof. D. B. Pukale)

Head
Dept. Comp Eng.


(Prof. Dr. P.V. Jadhav)
Principal,

HEAD
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

Bharati Vidyapeeth's College of Engineering for Women

Place: PUNE

Date: 01/06/24

PRINCIPAL
Bharati Vidyapeeth's
College of Engineering for Women
Pune-Satara Road, Pune-411043.



CERTIFICATE

This is to certify that the project report entitles

" WEB BASED TOOL FOR FLOOD HAZARD MAPPING "

Submitted by

STUDENT NAME:

BANDGAR AHILYA PANDURANG

BUNDELE CHANCHAL PRABHAKAR

CHAVAN TANMAYI PRASHANT

MANEPATIL RAJLAXMI UDAY

EXAM NO :

B190344205

B190344212

B190344213

B190344235

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

Guide

Department of Computer Engineering

(Prof. D.D. Pukale)

Head,

Department of Computer Engineering

(Dr. Pradeep V. Jadhav)
Principal,

Bharati Vidyapeeth's College of Engineering for Women

HEAD
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

Place : Pune

Date : 1/6/24

PRINCIPAL
Bharati Vidyapeeth's
College of Engineering for Women
Pune-Satara Road, Pune-411043.



CERTIFICATE

This is to certify that the Project Entitled

ECG ANALYZER USING MACHINE LEARNING

Submitted by

SANAH NAIK

EXAM SEAT NO: B190344238

ANKITA OCHANI

EXAM SEAT NO: B190344240

SAKSHI PRATAP

EXAM SEAT NO: B190344254

SURUCHI BIBIKAR

EXAM SEAT NO: B190344267

are bonafide student of this institute and the work has been carried out by them under the supervision of Prof. V.D. Kulkarni 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. V.D. Kulkarni)

Guide

Department of Computer Engineering

(Prof. D.D. Pukale)

HOD

Department of Computer Engineering

(Prof. Dr. P.V. Jadhav)

Principal,

Bharati Vidyapeeth's College of Engineering for Women

PRINCIPAL

Bharati Vidyapeeth's
College of Engineering for Women
Pune-Satara Road, Pune-411043.

HEAD
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

Place: Pune

Date:



CERTIFICATE

This is to certify that the project report entitles

"SHOPSTOCK: SMART INVENTORY MANAGEMENT SYSTEM USING DEEP LEARNING"

Submitted by

STUDENT NAME:

EXAM NO:

MISS. SHWETA GORAKSHA JADHAV

B190344222

MISS. ANKITA KAILAS KANAWADE

B190344225

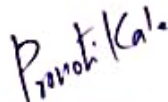
MISS. TANVI PRAMOD MAHAJAN

B190344232

MISS. SAMRUDHI PRASHANT SHETE

B190344262

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


(Prof. P. D. Kale)


Guide

Department of Computer Engineering


(Prof. D. D. Pukale)

Head,

Department of Computer Engineering


(Prof. Dr. P. V. Jadhav)
Principal,

HEAD
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

Bharati Vidyapeeth's College of Engineering for Women

PRINCIPAL

Bharati Vidyapeeth's

College of Engineering for Women
Pune-Satara Road, Pune-411043.

Place: Pune

Date: 01/06/2024



CERTIFICATE

This is to certify that the project report entitles
"IMAGE FORGERY DETECTION USING DEEP LEARNING"

Submitted by

JULEKHA BAGWAN	EXAM SEAT NO: B190344204
PRANALI JAGADALE	EXAM SEAT NO: B190344223
SANJIVANI MORE	EXAM SEAT NO: B190344236
RENUKA SARMOKDAM	EXAM SEAT NO: B190344257

are bonafide students of this institute and the work has been carried out by them under the supervision of **Prof. D. D. Pukale** and it is approved for the partial fulfilment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Engineering** (Computer Engineering).

(Prof. D.D. Pukale)
Guide

Department of Computer Engineering

(Prof. D.D. Pukale)
Head

Department of Computer Engineering

(Prof. Dr. P.V. Patil)
Principal,

Bharati Vidyapeeth's College of Engineering for Women

PRINCIPAL

Bharati Vidyapeeth's
College of Engineering for Women
Pune-Satara Road, Pune-411043.

HEAD
Computer Engg. Department
BV's College of Engineering
for Women, Pune-411043.

Place: Pune

Date: 15 June 2024.