

**Dr. D.Y. Patil Pratishthan's College Of Engineering,  
Salokhenagar, Kolhapur**



## **C E R T I F I C A T E**

This is to certify, that **Vaibhav Ganesh Patil, Sangram Madhukar Mane, Akshay Anil Mane, Mayuresh Amar Patil, Jayant Sanjay Jagtap** has satisfactorily completed the project work Entitled "**Event Management Website For Shaahi Creations**" in partial fulfillment for award of Bachelors of Engineering Degree in Computer Science and Engineering by Shivaji University, Kolhapur.

*P. R. Arlimatti*

**Guide**

**Dr S. R. Arlimatti**

**Principal**

*J. B. Patil*

**Head**

**Dept. of CSE**

*Atul*  
20/6/23

**External Examiner**

## ABSTRACT

The online event management system is a web-based platform designed to streamline and enhance the process of planning, organizing, and executing events. This project aims to address the limitations of traditional manual event management systems by providing an efficient and user-friendly online solution. The system allows clients to easily schedule, book, and organize various types of events, such as social events, weddings, receptions, and corporate functions.

The proposed system offers several key features and functionalities. Clients can access the system from anywhere and at any time, eliminating the need for physical visits to event management offices. They can browse through a list of event types and choose from readymade packages or customize their own event requirements. The system facilitates online booking and payment, reducing inconvenience and the need for cash transactions.

For event organizers, the system provides a centralized platform for managing event-related information. It allows them to efficiently handle tasks such as event planning, scheduling, and coordination. The system also offers features for maintaining customer details, managing services, and generating reports.

The implementation of this online event management system is based on .NET Framework using technologies like C#, HTML, JavaScript, and ASP.NET. The front-end is designed with HTML, CSS, and JavaScript, providing a visually appealing and user-friendly interface. The back-end utilizes a MySQL database for data storage and retrieval.

offers a convenient and streamlined solution for both clients and event organizers, ultimately enhancing the event experience for all stakeholders involve

Dr. D.Y. Patil Pratishthan's College Of Engineering,  
Salokhenagar, Kolhapur



## CERTIFICATE

This is to certify, Ms. Shreya Prakash Patil, Ms. Pallavi Madhukar Suryavanshi,  
Ms. Pratiksha Prakash Suryavanshi, Ms. Sanjivani Bhikaji Bhadvankar,  
Ms. Gouri Hambirrao Kadam that has satisfactorily completed the project work  
Entitled "DIGITAL VOTING SYSTEM BASED ON BLOCKCHAIN  
TECHNOLOGY" in partial fulfillment for award of Bachelors of Engineering  
Degree in Computer Science and Engineering by Shivaji University, Kolhapur.


Guide

  
Prof. S.V. Patil

  
Principal

  
Head

Dept. of CSE

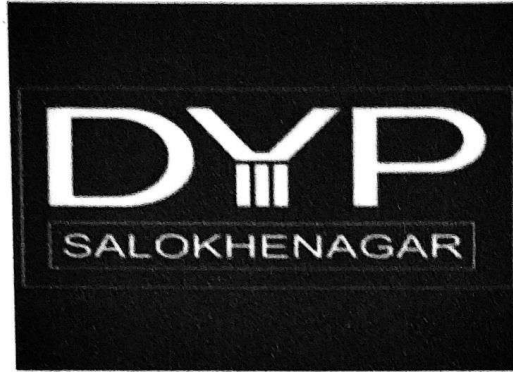
  
9/6/23.  
External Examiner

## ABSTRACT

It is very challenging to build a secure voting system that offers fairness and privacy of current voting schemes. In this implementation paper, we evaluate an application of block chain as a service to implement distributed electronic voting systems. Our objective is to provide a decentralized architecture to run and support a voting scheme that is open, fair, and independently verifiable. Our proposed solution implements the protocol which achieves fundamental e-voting properties as well as offer a degree of decentralization and allow for the voter to change/update their vote and the experimental result shows that our proposed solution is beneficial for the existing and upcoming voting system.

E-voting is a voting software solution based on security. There were many ways voting practiced over years which had raising hands for voting, using ballot papers. This system overcomes the above problems by using block chain technology. "Block chain is used to create secure and scalable distributed systems that show several edges over centralized system.

Dr. D. Y. Patil Pratishthan's College of Engineering,  
Salokhenagar, Kolhapur



## CERTIFICATE

This is certify that B. Tech (Computer Science & Engineering) has satisfactorily completed Project work entitled "Vasundhara Seedlings" towards

the partial fulfilment of Bachelor Of Engineering (Computer Science & Engineering) course as per the rules laid down by Shivaji University, Kolhapur, for year 2022-2023. This report represents the Bonafide work

carried out by the student.

Place : Kolhapur

Date : 09 / 06 /2023



Guide

Prof. Shailja Panhanlkar



Principal



HOD

Dept. of CSE

  
9/6/23

External Examiner

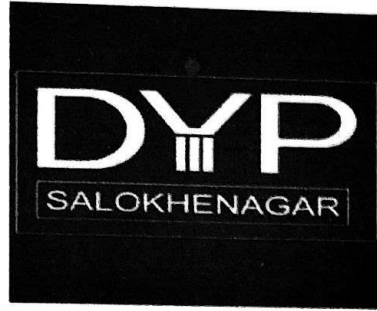
## **Abstract**

### DECLARATION BY STUDENT

Landscape nursery management as well as maintenance of plants has always been neglected and as such, emphasis should be given so that plants will always remain attractive. Basically, landscape nursery management maintenance will focus on the management of human resources, choice of plant species and plant care concerning mulching, staking, weeding, irrigation, fertilization, pruning, pest and diseases control.

Landscape nursery plants inventory, maintenance and management, will be made much easier if all those problems are maintained within one efficient and cost-effective integrated system. Therefore, there is a need to change the strategies in the landscape nursery management system to satisfy the needs of the more technologically advanced market. This project is mainly developed for the admin which is an owner of a nursery. On the basis of their requirements, we create this module for their smart work. In this module admin gets entered in this system by using logging this account with the help of username and password.

**Dr. D. Y. Patil Pratishthan's College of Engineering**  
*Salokhenagar, Kolhapur*



**CERTIFICATE**

This is to certify that, Mr (Devansh, Rushikesh, Tanmay, Muddasir, Tanveer)  
has satisfactorily completed the work entitled  
"DRESS CODE DETECTION"  
in partial fulfilment of award of Bachelors of Engineering Degree in

**COMPUTER SCIENCE & ENGINEERING**  
By Shivaji university, Kolhapur

PROFESSOR  
S.D. BHOPALE  
Dept. of Computer Science and Engineering

  
PRINCIPAL

Dr. Shivaleela R. Arlimatti  
Dept. of Computer Science and Engineering

  
9/6/23  
External Examiner

# DRESS CODE DETECTION

## ABSTRACT

The main idea of the project is to develop a system for an educational institution or for an organization, where there is a need for surveillance of dress code. The idea of the dress code Surveillance is to check whether the students/employees wear the proper uniform. Due to humans being used for checking whether the students wore proper uniforms or not, it is a very time consuming activity and also requires manpower. The system has reduced time consumption and human power. The system is majorly focused on the human objects present in camera. And what type of dress are worn by humans. By using YOLO object detection algorithm, the system is able to detect human objects present in an image.

This system is also able to differentiate between male object and female object from the image with the help of YOLO object detection algorithm, because the dressing style of males and females are quite different. One of the significances in the proposed methodology mainly concerns image processing techniques to detect human objects rather than using AI techniques. The system will be able to reduce the time required to check the uniform of every student, whether they are wearing proper uniform or not.

For getting the accuracy for Dress code surveillance for school and colleges system, the first system has to perform some operations on the data set. First system does the step by step "Data Preprocessing". Data preprocessing is a data mining technique which is used to transform the raw data in a useful and efficient format. Data cleaning is the process of fixing or removing incorrect, corrupted, incorrectly formatted, duplicate, or incomplete data within a data-set. After this step

the system data-set is fully prepared for applying the various machine learning algorithms. Second step is the "Training and Testing dataset's". The Train/Test method is used for measuring the accuracy of applied machine learning models. It is called train and test, because the system splits the dataset's in two parts: training set and testing set. After this step, choose a suitable deep learning model. The system uses Mask-CNN (Regions Convolution Neural Network) for segmentation of particular shape.



**Dr. D.Y. Patil Pratishthan's College Of Engineering,  
Salokhenagar, Kolhapur**



## **C E R T I F I C A T E**

This is to certify, that **Mr. Pratik Divakar Dahotre, Mr. Shrinath BalasoNimbalkar, Mr. Rugved Prakash Dholepatil, Mr. Siddhesh Arvind Sawanthas** satisfactorily completed the project work Entitled "**Decentralized Video Sharing Platform**" in partial fulfillment for award of Bachelors of Engineering Degree in Computer Science and Engineering by Shivaji University, Kolhapur.

**Guide**

**Prof.S.D.Bhopale**

**Principal**

**Head**

**Dept. of CSE**

  
9/6/23

**External Examiner**

## ABSTRACT

Online Decentralized video-sharing platforms have increased their popularity significantly in recent years. For example, YouTube has grown rapidly and become the most visited website in the world. Video-sharing platforms work by allowing users to provide content, view, subscribe, like, dislike and comment on the platform. They provide cost-saving, remote access, improved learning, stress relief, and available advantages 24 hours per day. This paper aimed to develop a conceptual framework to comprehend the acceptance to use video-sharing platforms and proposed a conceptual framework developed from a prior conceptual framework of React and Js Success model. A structural equation model was applied utilizing confirmatory factor analysis to validate the acceptance model towards an acceptance model for other technological platforms.

**Dr. D.Y. Patil Pratishthan's College Of Engineering,  
Salokhenagar, Kolhapur**



**C E R T I F I C A T E**

This is to certify, that **Ms. Shreeya Vilas Atiwadkar, Ms. Manasi Tukaram Killedar , Ms. Akshata Ashok Shinde , Mr. Rajwardhan Vishwajeet Shinde, Mr. Rugved Hemant Bhosale** has satisfactorily completed the project work Entitled **“INTRUSION DETECTION SYSTEM USING MACHINE LEARNING”** in partial fulfillment for award of Bachelors of Engineering Degree in Computer Science and Engineering by Shivaji University, Kolhapur.

**Guide**

**Prof. Ganesh Rathod**

**Principal**

**Head**

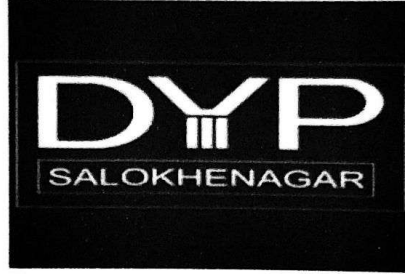
**Dept. of CSE**

**External Examiner**

## Abstract

The success of any Intrusion Detection System (IDS) is a complicated problem due to its nonlinearity and the quantitative or qualitative network traffic data stream with many features. To get rid of this problem, several types of intrusion detection methods have been proposed and shown different levels of accuracy. This is why the choice of the effective and robust method for IDS is very important topic in information security. In this work, we have built two models for the classification purpose. One is based on Support Vector Machines (SVM) and the other is Random Forests (RF). Experimental results show that either classifier is effective. SVM is slightly more accurate, but more expensive in terms of time. RF produces similar accuracy in a much faster manner if given modeling parameters. These classifiers can contribute to an IDS system as one source of analysis and increase its accuracy. In this paper, KDD'99 Dataset is used and find out which one is the best intrusion detector for this dataset. Statistical analysis on KDD'99 dataset found important issues which highly affect the performance of evaluated systems and results in a very poor evaluation of anomaly detection approaches. The most important deficiency in the KDD'99 dataset is the huge number of redundant records. To solve these issues, we have developed a new dataset, KDD99Train+ and KDD99Test+, which does not include any redundant records in the train set as well as in the test set, so the classifiers will not be biased towards more frequent records. The numbers of records in the train and test sets are now reasonable, which make it affordable to run the experiments on the complete set without the need to randomly select a small portion. The findings of this paper will be very useful to use SVM and RF in a more meaningful way in order to maximize the performance rate and minimize the false negative rate.

**Dr. D. Y. Patil Pratishthan's College of Engineering**  
**Shivaji University, Kolhapur**



**CERTIFICATE**

This is to certify that B. Tech (Computer Science & Engineering) has satisfactorily completed Project work entitled “**An Automatic Summary & MCQ Generation Using NLP**” towards the partial fulfillment of Bachelor of Engineering (Computer Science & Engineering) course as per the rules laid down by Shivaji University, Kolhapur, for year 2022 - 2023. This report represents the bonafide work carried out by the students.

Place : **Kolhapur**

Date : 9/6/2023



**Guide**



**HOD**

**Computer Science & Engineering  
Department**



**Principal**

**Dr. D. Y. Patil Pratishthan's  
College of Engineering**

**Seal**



**9/6/23**

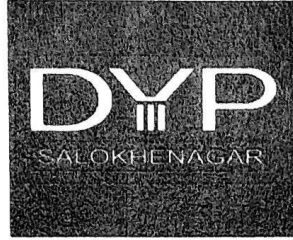
**External Examiner**

## ABSTRACT

Students ask questions to satisfy their never ending questions for getting knowledge. To perform competently assessment of students on their major concepts they learned from the study material. Preparing a set of questions for assessment can be time- consuming for teachers while getting questions from external sources like assessment books or question banks might not be relevant to content studied by students. An example, students ask questions to learn more from their teachers, teachers ask questions to help themselves evaluate the performance of the students, an-dour day-to-day lives involve asking questions in conversations. To perform competently assessment of students on their major concepts they learned from the study material. Automatic Question Answer Generation (AQAG) is the technique for generating a correct set of questions and answers from a paragraph, which can be text. Automatic question-answer generation (AQAG) is very important for many educational institutes but yet challenging problems in NLP. It is defined as the task of generating syntactically correct sound, semantically perfect and relevant questions and answers from several input formats like text, paragraphs. Question-Answer generation can be useful in many domains such as online assessment, e-tutoring sessions, chat bot systems, search engine sand health care for analyzing mental health. AQAG has got great consideration from researchers in a field of data science engineering.

The increasing availability of online information has necessitated intensive research in the area of automatic text stigmatization within the Natural Language Processing (NLP) community. Over the past half a century, the problem has been addressed from many different perspectives, in varying domains and using various paradigms. This survey intends to investigate some of the most relevant approaches both in the areas of single-document and multiple document stigmatization, giving special emphasis to empirical methods and extractive techniques. Some promising approaches that concentrate on specific details of the summarization problem are also discussed. Special attention is devoted to automatic evaluation of summarization systems, as future research on summarization is strongly dependent on progressiveness.

**Dr. D. Y. Patil Pratishthan's College of Engineering  
Shivaji University, Kolhapur**



**CERTIFICATE**

This is to certify that Mr. Shivam Vikram Banne, Mr. Atharv Sanjay Pailwan and Mr. Chirag Avinash Titave has satisfactorily completed Project work entitled "Rock Paper Scissor Game using AI and ML" towards the partial fulfillment of Bachelor of Engineering (Computer Science & Engineering) course as per the rules laid down by Shivaji University, Kolhapur, for year 2022-2023. This report represents the bonafide work carried out by the student.

Place: Kolhapur

Date:        /        /2023

**Prof. R. S. Barwade**  
Guide

**Dr. Shivaleela Aralimatti**  
HOD

**Dr. S. D. Mane**  
Principal

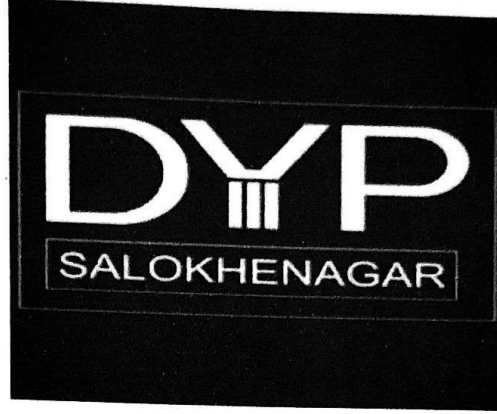
**External Examiner**

## Abstract

In the proposed topic, we will be implementing a rock-paper-scissors game. Rock-paper-scissors is a hand game played between user and computer, in which the user simultaneously forms one of three shapes with an outstretched hand. These shapes are "rock" (a simple fist), "paper" (a flat hand), and "scissors" (first two fingers, forming a V shape). These shapes are recognized by a computer with help of AI and ML algorithms and according to that a user who plays rock will beat a computer who has chosen scissors, but will lose to one who has played paper; a play of paper will lose to a play of scissors. If both user and computer choose the same shape, the game is tied. After three rounds whoever wins the majority wins the game.



Dr. D.Y. Patil Pratishthan's College of Engineering,  
Salokhenagar, Kolhapur.



## CERTIFICATE

This is to certify that *Miss. Pranita Rajendra Ghodke, Miss. Sakshi Sachin Patil, Miss. Namrata Santosh Sapate, Miss. Priyanka Anandrao Wadkar* has satisfactorily completed the project work entitled "*Smart Traffic Signal Control Using IOT*" in partial fulfilment for award of Bachelors of Technology Degree in *Computer Science and Engineering* by Shivaji University, Kolhapur.

Mrs. S. S. Ghewari  
(Guide)

Dr. S. R. Arlimatti  
(H.O.D)

Dr. S. D. Mane  
(Principal)

(External Examiner)

## ABSTRACT

The fundamental of this project is to change the timing delay between the traffic light systems automatically according to the number vehicles passing through the lane.

In Today's world Traffic congestion is a severe problem in most of the cities. Nowadays fixed time based system is used in traffic signaling system which may provide incompetent if one lane is operational than the others. It will diminish productivity of the individuals and a lot of work hour is wasted in this system. Sometimes higher traffic congestion at one side of the lane needs longer green signal as compared to fixed time based systems, as a result propose here a mechanism in which the time period of green signal and red signal is assigned based on the density of the traffic present at that time.

To optimize this problem we have to design an automatic traffic control system. This can be achieved by using PIR (proximity Infrared sensors). Once the density is calculated, the luminous period of green signal is assigned with the help of the microcontroller (Arduino). The sensors which are placed on each sides of the road at a particular distance which will detect the numbers of the vehicle passing that lane and sends the information to the microcontroller based on the information it will decide which lane is to be free or when to revolutionize over the signal lights. In further sections, have to elaborate the procedure of this structure


SHIVAJI UNIVERSITY, KOLHAPUR  
Dr. D. Y. Patil Pratishthan's College of Engineering  
Salokhenagar, Kolhapur 2022-2023


DEPARTMENT OF COMPUTER SCIENCE &  
ENGINEERING





**CERTIFICATE**

This is to certify, that Samruddhi, Amey, Rushikesh, Shreya, Divya, Pratiksha has satisfactorily completed the project work Entitled "AI BASED WORKOUT ASSISTANT" in partial fulfillment for award of Bachelors of Engineering Degree in Computer Science and Engineering by Shivaji University, Kolhapur..

  
PROFESSOR  
S.D. BHOPALE  
Dept. of Computer Science and engineering

  
PRINCIPAL  
Dr. Suresh D. Mane

  
Dr. Shyaleela R. Arlimatti  
Dept. of Computer Science and  
engineering

  
10/6/23  
External Examiner

## ABSTRACT

Nowadays virtual assistant is playing a very important role in our daily activities and has become an inseparable part of our lives. As per the Clutch survey report that was published in 2019, almost 27 performing their day-to-day activities. AI is an emerging field that we aim to explore through this project of AI-based workout assistants. In our work, we introduce Fitcercise, an application that detects the user's exercise pose counts the specified exercise repetitions and provides personalized, detailed recommendations on how the user can improve their form. The application uses the MediaPipe to detect a person's pose, and afterwards analyses the geometry of the pose from the dataset and real-time video and counts the repetitions of the particular exercise.


Keywords - AI, Virtual assistant, CNN, workout assistant, Pose estimation. BlazePose, OpenCV.


**Dr. D. Y. Patil Pratishthan's College of Engineering**  
**Salokhenagar, Kolhapur**



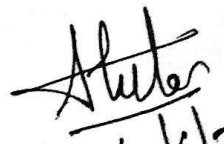
**CERTIFICATE**

This is to certify, that Mr .Shantanu Ranjit Kalekar, Mr. Prathamesh Pravin Kamate, Mr. Sanket Sambhaji More, Mr. Bhushan Ramesh Nalawade, Mr. Sawai Babulal Sutar has satisfactorily completed the project work Entitled “**Dr. Agri**” in partial fulfilment for award of Bachelors of Engineering Degree in Computer Science and Engineering by Shivaji University, Kolhapur.

  
**Mrs. AMRUTA A. CHITARI**  
(ASSISTANT PROFESSOR)

  
**DR. SHIVALEELA R. ARLIMATTI**  
(HEAD OF DEPARTMENT)

  
**PRINCIPAL**

  
20/6/23.  
**EXTERNAL EXAMINER**

## Abstract

Computerization in the area of agriculture sees an excellent success in several farming perspectives, which includes detection of one-of-a-kind plant diseases. The focal factor of relatively plenty each and every kingdom has moved closer to the mechanization of agriculture to reap exactness and precision and to serve the persistently increasing request of food. Among the extensive difficulties in agriculture, plant disorder detection is a crucial component influencing the end result of cultivating. Quality of vegetables, natural products, greens and grains is influenced through plant disease, and hefty misfortune underway and consequently financial loses are watched, so there is a prerequisite of rapid and plausible plant ailment detection and assessment strategies. This paper investigates the manners via which laptop gaining knowledge of fashions can be utilized to enhance the cycle of plant sickness detection in starting phases to enhance grain safety and manageability of the agro-biological system.

**Dr. D. Y. Patil Pratishthan's College of Engineering**

**Salokhenagar, Kolhapur**



## CERTIFICATE

This is to certify, Ms. Rajnandini Pratap Patil, Ms. Pooja Subhash Bangar, Ms. Saraswati Ashok Davari, Ms. Dipa Anil Saptal, Ms. Dhanashri Dattatray Shinde that has satisfactorily completed the project work Entitled “**E-Attendance System Using QR Code and OTP**” in partial fulfillment for award of Bachelors of Engineering Degree in Computer Science and Engineering by Shivaji University, Kolhapur.

V.S. Shinde  
(Professor)

PRINCIPAL

Dr. Shivaleela R. Arlimatti  
(HEAD OF DEPARTMENT)

  
10/6/23

EXTERNAL EXAMINER

## ABSTRACT

In this technology smartphones play a significant role in our day to day life. Nowadays smartphones can solve most of the problem very quickly and easily. It has made life of every person simple and easier with different social app, commercial app, problem solving app, app for education and marketing etc. Followed by the technology the paper proposed a system that will handle a problem for recording the attendance. The proposed system is a couple of two applications, one for generating the QR Code by entering the student details and second application for taking the attendance and generating the attendance in CSV or XLS format.

The teacher will need to scan the QR code of the particular student in order to confirm their attendance. The paper discusses how the system verifies student identity to eliminate false registrations. The system deals with the management and evaluation of attendance of all students. The student QR code will be provided to professor for taking their attendance.

The professor handling the subjects is responsible to mark the attendance for all students of the group or class. The attendance will be marked as 0 and 1, 0 for absent and 1 for present in the database of the particular student row in the table. The student attendance reports will be generated in CSV and XLS sheet for further use. Keywords: QR, attendance, system, professor, student.



**DR. D. Y. PATIL PRATISHTHAN'S COLLEGE OF ENGINEERING  
SALOKHENAGAR, KOLHAPUR.**



**CERTIFICATE**

This is to certify that Miss. Shifa Nasir Khan, Miss. Shivani Vijay Koli, Miss. Dhawalshree Ashok Mengane, Miss. Sandhya Sanjay Rane have satisfactorily completed the project work entitled “**Desktop AI Assistant to manipulate Word Editor**” in partial fulfilment of Bachelor’s of Engineering Degree in Computer Science & Engineering under DR. D. Y. Patil Pratishthan’s College of Engineering Salokhenagar Kolhapur affiliated to Shivaji University, Kolhapur, for the academic year 2022-23.

**PROJECT GUIDE**

Mrs. S. S. Ghewari

**Principal**

**HEAD OF THE DEPARTMENT**

Dr. S. R. Arlimatti

**External Examiner**

Artificial Intelligence (AI) is evolving the way desktop assistant tasks are performed. AI-powered desktop assistants are becoming increasingly capable of understanding natural language, recognizing objects, and responding to user commands. AI-powered desktop assistants can be used to automate mundane tasks such as scheduling meetings, sending emails, and searching for information. AI-powered desktop assistants can also be used to provide personalized recommendations, such as suggesting new products or services to users. Additionally, AI-powered desktop assistants can be used to provide more accurate and timely customer service, as they are able to quickly process customer inquiries and provide accurate responses. AI-powered desktop assistants are also being used to improve the user experience by providing more intuitive and natural user interfaces. As AI technology continues to evolve, desktop assistant tasks will become increasingly automated and efficient.

We have built a personal AI assistant that can open a word editor and add text to it on command and be a powerful tool for anyone who needs to create documents quickly and efficiently. This AI assistant can be programmed to recognize certain commands, such as "make it bold" or "make it italic," and then automatically format the text accordingly. It can also be programmed to recognize certain keywords and phrases, allowing it to quickly search through a document and find the relevant information. This AI assistant can save users time and energy by quickly formatting documents and searching for relevant information. Additionally, it can be programmed to recognize certain commands related to formatting, such as changing the font size or color, and then automatically apply the changes. This AI assistant can be a great asset to anyone who needs to quickly create documents and format them correctly.

SHIVAJI UNIVERSITY, KOLHAPUR



**Dr. D. Y. Patil Pratishthan's College of Engineering**

*Salokhenagar, Kolhapur*

2022-2023

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**



**CERTIFICATE**

Certified that the Project topic entitled "Attendance System Using Machine Learning" a bonafide work carried out by Abhishek, Sardar, Rajat, Pranav in partial fulfillment for the award of Degree of Bachelor of Engineering in 8<sup>th</sup> Semester of the SHIVAJI UNIVERSITY, KOLHAPUR during the year 2022-2023. It is certified that all corrections/ suggestions indicated for Internal Assessment have been incorporated in the report deposited in the Department Library. The Project report has been approved as it satisfies the Academic requirement in respect of Project work prescribed for BACHELOR OF TECHNOLOGY DEGREE.

Guide

Prof. S. D. Bhopale

Principal

Head

Dept. of CSE

External Examiner

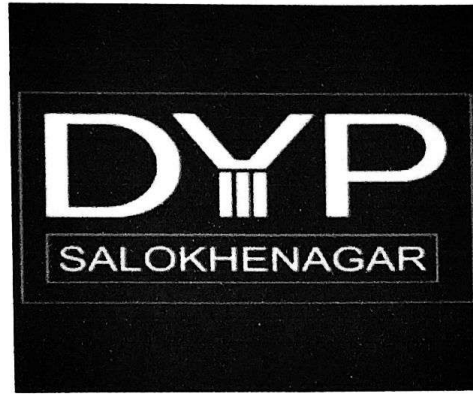
## ABSTRACT

Face detection and face recognition are very important technologies these days, furthermore we noticed that they got have a variety of uses such as cellphones, army uses, and some high-risk information offices.

We decided to make a device that detects and recognize the face as a student attendance system and can be a substitute for the regular paper attendance system and finger print attendance system. The main function in our project is going to be done using OpenCV because, OpenCV is a very helpful programming tool in regards of facial uses and very helpful in other uses.


Our project is based on a main program in OpenCV that detects and recognize faces with giving scores and parameters, furthermore the subsystems are an Excel sheet that is integrated with the program, and a messaging device that is for either a message for absent students or to the student's parents. Components of our project are OpenCV program as the main system and subsystems, Office Excel sheet to include students' names, and a computer (or laptop) to integrate the programs together.

Dr. D.Y. Patil Pratishthan's College of Engineering,  
Salokhenagar, Kolhapur.




## CERTIFICATE

This is to certify that *Sammit Khade, Swapnil Lokhande, Rajvardhan Patil, Swaroop Sanjay Patil* has satisfactorily completed the project work entitled "*College Pulse*" in partial fulfilment for award of Bachelors of Engineering Degree in *Computer Science and Engineering* by Shivaji University, Kolhapur.

  
Miss. V. S. Shinde

(Guide)

  
Dr. S. R. Arlimatti

(H.O.D)



Dr. S. D. Mane

(Principal)

  
10/6/23.

(External Examiner)

## ABSTRACT

The purpose of Campus Application is to automate the existing manual system by the help of computerized equipment's and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with.

College Management System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus, it will help organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information.

The aim is to automate its existing manual system by the help of computerized equipment's and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Basically, the project describes how to manage for good performance and better services for the clients