



Automatic Attendance System

An overview of the project details, technology, AI agent, use cases, testing details, project timeline, and conclusion of the Automatic Attendance System.

Team Mates

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Features

- ▶ Online Attendance Tracking
- ▶ Adding Students or Course Calendar
- ▶ Real-Time Monitoring
- ▶ Providing records in PDF to the faculty
- ▶ Notifications & Alerts
- ▶ Access to Faculty to update Attendance

Preliminary Scope of the Project

1 Objectives

Create a seamless attendance-logging process for students, eliminate the need for manual entry, and automatically log every student.

2 Future Scope:

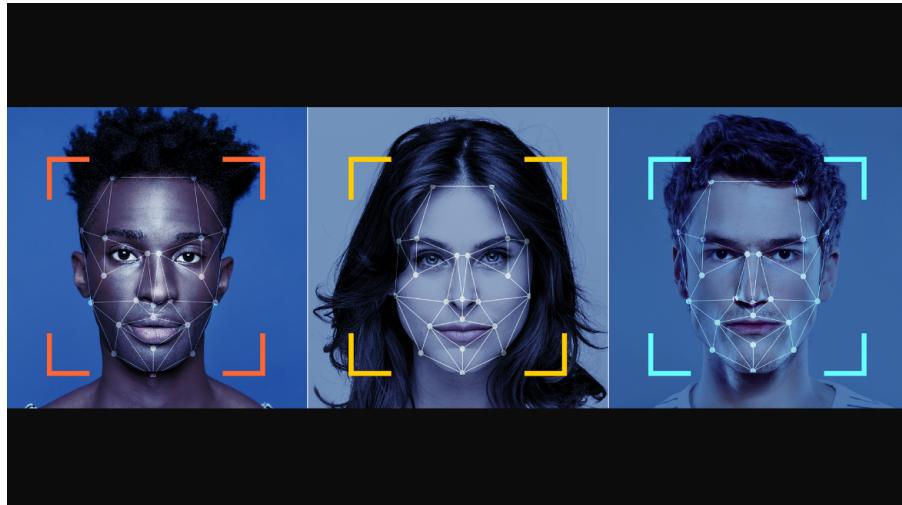
Data Management
Integrating with Existing Systems
Mobile App
Analysis

3 Target User Base



Any University/
College professors,
School teachers,
and business
owners that have
attendance-logging
requirements.

Technology to Be Used



Facial Recognition

We will use facial recognition technology by using CNN to identify the students by their face and log their attendance.

Technical Approach

1) Data Collection

First, we need to create an image dataset and collect images of all the students in the class and images are extracted from the different sources and combined to form a dataset based on the image labels.

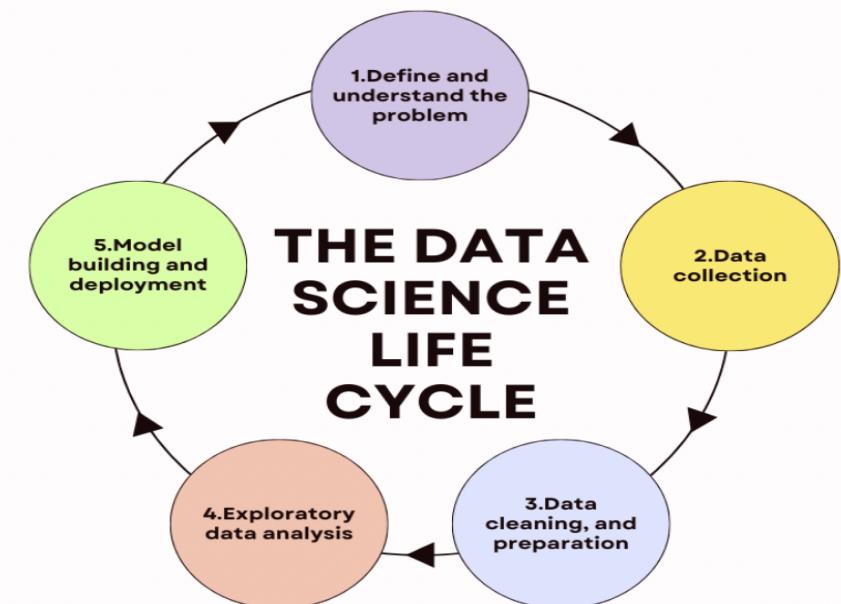
1) Facial Recognition with Advanced CNN models

- Alexnet
- VGG

1) Data Science Life cycle

1) Deployment

- AWS - S3
- Google Cloud Platform



AI Agent Details

Agent Name: Vikram 

AI Agent will be the brain
of the Automatic
Attendance System.

- Cognitive Skills:
- Facial Recognition
 - CNN
 - Machine learning

- Features:
- Real-time attendance tracking
 - Data analysis and reporting

Use Cases for Project Evaluation

1

University/College

The system will be evaluated by the faculty of a university/college on the speed, accuracy, and effectiveness of the automatic attendance system in a large classroom.



Schools

The system will be evaluated by schoolteachers on how the technology helps streamline attendance reports, reduce errors, and save time.

3

Businesses

The system will be evaluated by a client's business to test how accurately and quickly the system logs employee attendance and tracks productivity.

Testing Procedures

Scenario 1 🎭🎭

Testing the facial recognition technology with students or employees with and without masks.

Scenario 3 🎭🎭

Test if the student is sitting in the assigned classroom

Scenario 2 🎭🎭

Testing the effectiveness of AI Agent in tracking attendance over a week.

Scenario 4 🎭🎭

Testing the data reporting system, and the speed and accuracy of attendance reports.

Project Timeline

Project Initiation & Planning	2 Weeks
Development of System Features	1 Months
Testing and Quality Assurance	2 Weeks
Deployment and Launch	2 Weeks



LOGO

THANK YOU

