

AI Processors and Architecture Project

**Attendance
Management System
using Face Recognition**



Team Members

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Problem Statement-

1. The teachers need to hire student attendance sheet Excel to collect and file student attendance is lost.
2. Loss of instructional time production to search students on the attendance sheet.
3. Statistical information is not easily to be derived.
4. Attendance records are not communicated efficiently.

Objectives-

1. Spots the presence of attending students and providing the timing of the attendance marked.
2. Capable of storing maximum records and no need of manual attendance
3. Only students are responsible for marking attendance of their own.

Literature Survey-

In this literature survey, we hosted a google form and shared it with our friends to know their opinion on this project.

It's a best way to reduce proxy

This is a good idea

I believe Face recognition is the best method for attendance in this modern growing world

I would surely prefer face recognition

Face recognition system will be time saving option

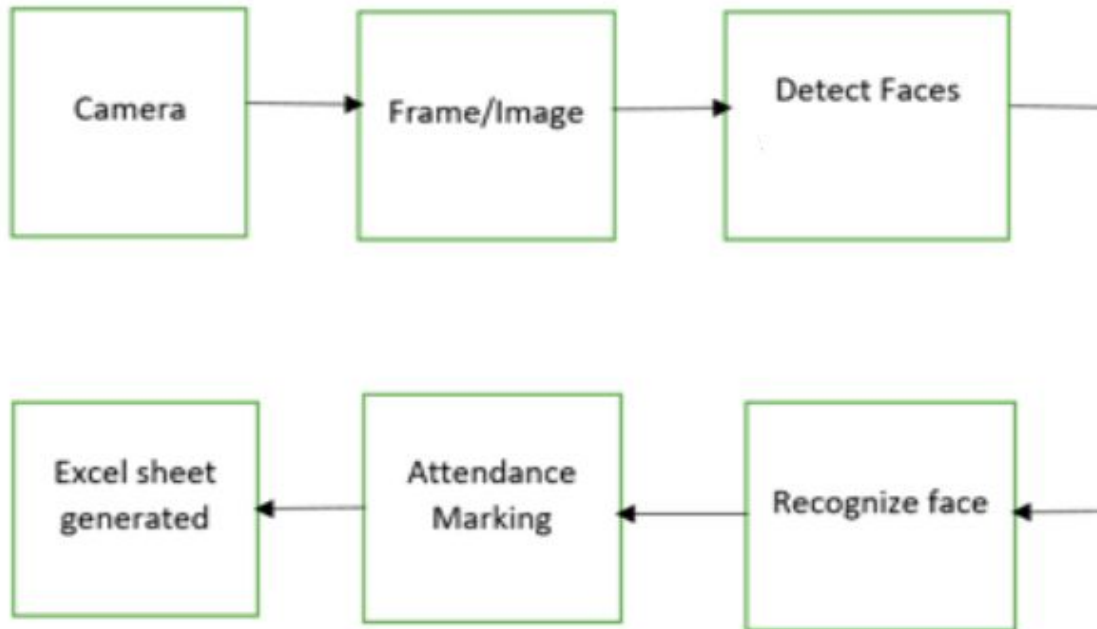
It can also be used in office and other companies also

Face recognition system or traditional method should be prefer

Great work go ahead.

Great Idea , should implement further

Methodology



Algorithm/Flow of Project

1. We are importing the required libraries.
2. Functions that return today's date and specific time
3. Initializing VideoCapture object to access WebCam.
4. Creating folders and directories.
5. Extracting the face and its features from an image.
6. Identifying the face using ML model.
7. Training the model according to the faces available in the faces folder.
8. Marking the attendance and storing it in a csv file according to dates.

Challenges faced

1. Plenty errors in loading open-cv and installing it.
2. Understand the versions and accordingly install in our system.
3. Had issues in dealing with recognition of similar face features.
4. When there are more than one person in frame then it was difficult to recognize each individual.

Conclusion-

The evolving technology has led to the introduction of the automated attendance system that provides much better results. An automated attendance system using face recognition is easy to install and use. With just a few clicks, you will get all the details related to attendance. Thus, considering all these advancements we have made a project- attendance management system using face recognition.

References-

1. Machine Learning - Face Recognition
2. 2018 7th International Conference on Computer and Communication Engineering (ICCCCE)
3. Class Attendance Management System using Facial Recognition- Research Gate
4. Face Recognition Attendance System for Students- UK Essays
5. AUTOMATIC STUDENT ATTENDANCE SYSTEM USING FACE RECOGNITION PROJECT
6. REFERENCE NO.:39S_BE_1465

Thank You!

