

Attendance Marking System Using Facial Recognition

Group 18

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1 Problem Statement

The algorithm will be used for recognition of people from a database, and marking their attendance automatically. This will be made possible using realtime video capture, face detection and face recognition ML models. The attendance will be marked in an external Google sheet. This algorithm helps in easier and faster attendance marking. It also helps in avoiding proxy done by some students. Also, in an exam hall only the student registered for the exam will be able to write the exam as his attendance will be marked on the basis of the face recognition.

2 Extensions to Prior Work

We have written code for detection of faces on the realtime video captured from our laptops webcam. This happens in realtime since the final attendance marking system also works in realtime.

We have modelled the basic neural network for our face recognition model.

We have also collected dataset consisting of images of 5 people, with 5 images per person from different angles. This is for training the ML model to recognize people.

3 How do I feel?

We fell very in-the-zone and are actively researching on the project. We are also very excited to do the project.

4 Contributions of members

Part of the project	Group Member	Contribution
Face Detection	Neeraj & Aditya	100% & 100%
Face Recognition	Abhishek & Neeraj	100% & 100%
Dataset Collection	Aditya & Abhishek	100% & 100%

5 Link to updated schedule spreadsheet

[LINK](#)