

SWE Project

Problem Title:

Face Recognition based Attendance System

Problem Statement:

Taking and tracking students' attendance manually, losing attendance sheets, dishonesty, wasted time and high error scales are problems facing the lecturers using the existing attendance system. It is a hard process, takes time and causes a lot of paper based work. In order to solve these problems and avoid errors we suggest developing an automated system for deploying an easy and a secure way of marking the attendance of students entering a classroom, by using CV and DL based face recognition techniques.

Solution Overview:

The system captures an image of all students and stores the information of all the permissible persons into the database. The system then stores the image by mapping it into a face coordinate structure. Next time whenever the registered person enters the class, the system will recognize the person (face detection, feature extraction, face recognition and verification) and marks his/her attendance along with time. If a person arrives late than the reporting time, then "absent" will be marked.

