

ABSTRACT

Attendances of every student are being maintained by every school, college and university. Empirical evidences have shown that there is a significant correlation between students' attendances and their academic performances. There was also claimstated that the students who have poor attendance records will generally link to poor retention. Therefore, faculty has to maintain proper record for the attendance. The manual attendance record system is not efficient. Because, it requires more time to arrange records and to calculate the average attendance of each student. Hence there isa requirement of a system that will solve the problem of student record arrangement and student average attendance calculation.

This project is used for making the attendance as smarter using recent technology and recognition in machine learning algorithms to build a system that will detect and recognize frontal faces of students in a classroom. In this project, we are not only identifying and recognizing the trained faces but also it will check whether the given photo of face is *spoofing* or live photo. If the face is identified as spoofing, it will not register the attendance for that student even this face is already trained and authorized. If the face is identified, it will cover the face by box and display the student name as caption; otherwise it displays string "unknown" as caption. After end of attendance duration time, if student are presented in front of the camera, it will recognize the students as authorized but attendance will not be entered for those students on the day of attendance. And also detect unknown Student in the Class room and gives us Alert message and sound. At end of the day, student's attendance of the present day will be back up into the master file to maintain and which will be referred in future.