

PROBLEM STATEMENT

(ATTENDANCE MONITORING SYSTEM USING AI)

In offline mode we can monitor the students easily. But in online mode we cannot assure that students are attentive and listen to the teachers' words even though they have joined the meeting. To monitor the students in online class, we need an alternative solution.

Abstract

In this pandemic, everything has been changed into online mode. E-learning has emerged and helped students to learn and contribute towards their academics in an easier way. Online platforms like Google meet, Zoom, Microsoft teams have been used by many of the students and their universities. Though it helped a lot for students. But students of the schools and universities have been instructed to turn off their camera and microphone during the online classes. There are some drawbacks that reduce the quality of education on online platforms. In offline mode we can monitor the students easily. But in online mode we cannot assure that students are attentive and listening to the teachers' words even though they have joined the meeting.

The solution for the problem can be obtained by introducing a new software that takes automatic attendance through the camera several times and by recognition of the student face to the registered face. One of the advantages is that students must be present throughout the class otherwise the respective student will be marked as absent. There will not be any specific time for the attendance and the camera will be turned on at random intervals of time. So, the student will be more attentive in the class. The faces of the student will be pre registered in the school's database and while this attendance progresses the AI records the student face and machine compares the face of the student to his/her registered face in the database. If both the faces match then it marks the attendance as present. If the student

is not present over the class, then the AI also notifies the respective teacher and also the parents of the student.

BLOCK DIAGRAM

