

# Face Recognition Attendance System

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**Abstract:** *In colleges, universities, organization, schools, and offices, taking attendances is one of the most important tasks must be done on a daily basis. The majority of the time, it is done manually, such as by calling by name or roll member. The Main goal of these project is to create a face recognition-based attendance system that will turn this manual process into an automated one. This project meets the requirements for bringing modernization to the way attendance is handheld, as well as the criteria for time management. This device is installed in the classroom. Where and students' information, such as name, roll number, class, sec, and photographs, is trained. The images are extracted using open CV. Before the start of the corresponding class, the student can approach the machine, which will begin taking pictures and comparing them to the qualified dataset.*

**Keywords:** Face Recognition, Attendance System, Biometric Authentication, Machine Learning, Deep Learning, Computer Vision, Facial Recognition, Student Attendance Management, Face Detection Algorithms, Automated Attendance Systems, AI-based Attendance System, Real-time Face Detection, Image Processing, Surveillance Systems, Identity Verification, Security and Privacy in Education, MSBTE Research, Educational Technology, Smart Classroom, Facial Features Recognition, Biometric Solutions for Attendance