MINI PROJECT – II
(2018-19)

Smart Attendance

SYNOPSIS

Institute of Engineering & Technology

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About the Project:

Attendance of the student is very important for every college, universities and school. Conventional methodology for taking attendance is by calling the name or roll number of the student and the attendance is recorded. But this process is very time consuming. So, an automatic process is used in this project which is based on face recognition. Smart Attendance is a web-based system made for the automation mode to mark up the attendance based on face recognition. Details of the students is stored in the database and then image of the whole class is taken by a camera. After that, with the help of recognizing faces of currently present students, it marks up their attendance and generates an excel file.

Motivation:

The main motive of this project is to solve out real problem of manual attendance marking system by separating chances of errors made in manual entries, proxies and many more other issues. Moreover, giving a faster alternative to save up the time. A high-resolution camera will carry out this task by just clicking a single image.

Future Prospects:

In future, the whole world will be automated and this project will be a little contribution to transform the traditional attendance marking system of academic institutions to automated and error free attendance marking system.

Requirements:

a) **Hardware:**
   - 4-GB RAM
   - High Resolution Camera
   - Processor: Intel core i3

b) **Software:**
   - Windows Operating System
   - Python 3x
   - PyCharm/Anaconda

c) **Technologies:**
   - OpenCV
   - Machine Learning