**FACE RECOGNITION WITH ATTENDANCE EVALUATION**

**ABSTRACT :**

* The management of the attendance can be a great burden on the teachers if it is done by hand. To resolve this problem, smart and auto attendance management system is being utilized.
* In human interactions, the face is the most important factor as it contains important information about a person or individual it is used for persons presence or attendance.
* This paper proposes a model for implementing an automated attendance management system for students of a class by making use of face recognition technique, by using Eigenface values algorithm.

**Detailed Implementation of Abstract :**

**Step 1: Finding all the Faces**

Histogram of Oriented Gradients(HOG) method is used in backend for finding faces. In which our image will be broken into small squares of 16\*16pixels.

**Step 2: Posing and Projecting Faces**

As the face to be recognised my not be in the same position as we trained. The dlib library in the backend finds the facial landmarks and warps the image. So that our model will be trained to detect accurately.

**Step 3: Encoding our Faces**

128measurements such as distances b/w nose & eyes, size of lips etc are calculated which can be used for the comparison of faces and giving the accurate result of recognition.