Facetrace Attendance

Priyal Jain, Rajdeep Bhatia, Harjinder Singh Khalsa, Prof. Vivek Kumar Gupta, Prof. Manish Joshi

Department of Computer Science

Medicaps University, Indore, India

en21cs301585@medicaps.ac.in, en21cs301613@medicaps.ac.in, en23cs3t1001@medicaps.ac.in

vivek.gupta@medicaps.ac.in, manish.joshi@medicaps.ac.in

Abstract: *It's a system designed to introduce modernization in attendance management by using facial recognition. Existing attendance systems which include manual registers or RFID cards are highly erroneous, fraud-prone and inefficient. This project offers a contactless, automated, accurate attendance management.*

System created with the use of the Django framework is a scalable and flexible system that integrates cutting-edge facial recognition libraries like OpenCV or similar tools. The system captures a live video stream from a camera, detects them in the real-time work and matches them with the pre-registered database of users. Attendance of the person is automatically recorded in the DB once the match is confirmed.

Source code of the project is modular and well-documented, it can be easily modified and extended by developers. The project presents real practical use of machine learning and AI principles in solving real-life tasks. It demonstrates how machine learning can be used in web technologies to increase the effectiveness and productivity of everyday activities.

Keywords: Face detection, Attendance systems, Haar Cascade Classifier, Local Binary Pattern Histogram.

Copyright to IJARSCT
www.ijarsct.co.in

DOI: 10.48175/IJARSCT-24810

70

ISSN
2581-9429
IJARSCT