Dept. of Computer Science and Engineering (Data Science)

Adichunchanagiri Institute of Technology, Chikkamagaluru

Mini Project Synopsis

TITLE:- Attendence Face Recognition System

Problem Statement :- To design and implement a system that can Collect and store facial data that raises significant privacy issues. Users may be uncomfortable with their images being used without explicit consent. The system may struggle with accuracy, especially in varying lighting conditions, different angles, or when individuals change their appearance (e.g., hairstyles, glasses).The system may not work well in all environments (e.g., crowded places, with masks), limiting its usability.

Description :- The project involves developing Attendance Facial Recognition System is a cutting-edge project designed to automate the attendance tracking process using advanced facial recognition technology. This system aims to provide a fast, accurate, and user-friendly method for recording attendance in educational institutions or workplaces.

Expected Outcomes :- The project will result in a Automating attendance tracking significantly reduces the time required to mark attendance, allowing for quicker class **.**Users do not need to sign in or provide ID cards, as the system automatically identifies them.The system can be scaled for various environments, including schools, universities, and workplaces, making it versatile.

Technologies and Tools: -

Languages: Python , JavaScript **.**
Libraries: Open CV **,** A powerful library for computer vision tasks, including facial detection and recognition.
Optional:

- MySQL: For storing attendance records and user data.
- MongoDB: A NoSQL database option for flexibility with data storage.
- HTML/CSS: For front-end development if creating a web application.
- Git: For version control and collaboration on the project.

Team Members:-

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Signature of the Guide with date **Signature of the Coordinator with date**