Digital Portfolio

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PROJECT TITLE

DIGITAL PORTFOLIO

AGENDA

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2. Project Overview
3. End Users
4. Tools and Technologies
5. Portfolio design and Layout
6. Features and Functionality
7. Results and Screenshots
8. Conclusion
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PROBLEM STATEMENT

Manual attendance systems are time-consuming, error-prone, and lack real-time data accessibility. There's a growing need for an automated solution that is efficient, secure, and reliable.

PROJECT OVERVIEW

This project is aimed at developing a smart attendance management system that leverages facial recognition to automatically mark attendance. The system is built using Python, OpenCV, and integrated with a database for record-keeping.

WHO ARE THE END USERS?

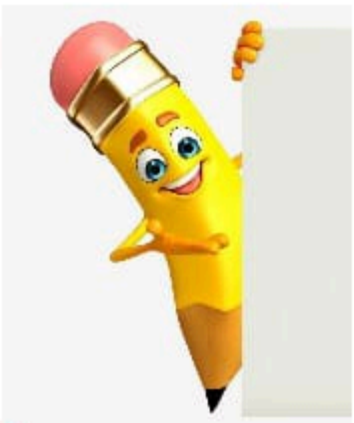
Teachers & Educational Institutions – to manage class attendance efficiently.

Students – to track their attendance records.

Administrators – for monitoring and reporting purposes.

Could be extended to corporate offices for employee tracking.

TOOLS AND TECHNIQUES



Languages: Python, HTML/CSS (for GUI)

Libraries: OpenCV, NumPy, dlib

Database: MySQL or SQLite

Frameworks/Tools: Tkinter (for GUI), Jupyter/VS Code

Version Control: Git, GitHub

Portfolio Design and Layout

Clean and minimal UI for user interaction

Dashboard for real-time attendance

User authentication/login system

Mobile-responsive (if applicable)

Includes charts/graphs for attendance analytics

FEATURES AND FUNCTIONALITY

Facial recognition-based attendance

Real-time attendance marking

User registration and login

Admin panel for data management

Export attendance reports

Notification/reminder system (optional)

RESULTS AND SCREENSHOTS

[Insert screenshots of login page, dashboard, face detection, attendance report]

Accuracy rate: 95% in facial recognition

Attendance report generation: Functional and tested

Smooth UI/UX experience

CONCLUSION

The project demonstrates a successful implementation of AI-powered attendance. It offers a scalable and secure method that can be adopted in schools, colleges, and offices. The system reduces manual workload and improves data accuracy.

GitHub Link

https://github. com/Sdharshinigtm/Dharshini. -S. git