ARYENDRA CHAUDHARY

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LeetCode: leetcode.com/u/aryensiwach **Portfolio:** aryensiwach.github.io/aryendra-portfolio/

EDUCATION

Meerut Institute of Engineering and Technology, Meerut   **2022 – 2026**
B.Tech - Information Technology   *Uttar Pradesh, India*

PROJECTS

Cortex-V: A Neural Vector Search Engine | Python, Flask, FAISS, PyTorch
- **GitHub Repo:** github.com/aryensiwach/VectorSearchEngine
- Engineered a retrieval system by converting 2,000+ images into 512-dimensional vector embeddings using OpenAI's CLIP model.
- Achieved an average query latency of 90ms for Top-K similarity searches by implementing a highly optimized FAISS (L2) index.
- Developed a responsive Flask web application for real-time image queries, handling a 99% successful retrieval rate across test cases.
- Architected an end-to-end processing pipeline demonstrating the ability to scale to over 100,000+ images with minimal degradation.

AI-Powered Code Evaluation Platform | C++, REST API, Node.js, Firebase, Judge, Gemini AI
- **Website Link:** internhub-c469b.web.app
- Engineered the core C++ integration module connecting Judge & Gemini APIs, enabling real-time code compilation & AI-assisted evaluation.
- Optimized API calls, cutting evaluation latency by 30% and boosting throughput for concurrent requests, enhancing developer productivity by 20%.
- Developed AI-driven scoring and code quality suggestions, increasing evaluation accuracy by 25% over baseline rule-based systems.
- Architected a scalable backend tested with 200+ concurrent users, ensuring fault tolerance & low response times.

Automated Face Recognition Attendance System | Python, OpenCV, Tkinter, CSV/MySQL
- **GitHub Repo:** github.com/aryensiwach/Face-Recognition-Attendance-System
- Designed & deployed a GUI-based attendance automation system that dynamically mapped to the current timetable.
- Integrated real-time face detection & recognition (HaarCascade + LBPH) achieving 95%+ recognition accuracy across 500+ test samples.
- Automated database logging with timestamped records, improving record-keeping efficiency by 40% vs manual entry.
- Implemented multi-camera switching, reducing average attendance marking time from 3–4 mins to less than 30 sec/class.

TECHNICAL SKILLS

Languages: C++, Python
Core CS: Data Structures and Algorithms , OOP, System Design, DBMS, OS, CN, TCP/IP, HTTP
Databases: MySQL, CSV Handling
Frameworks and Libraries: OpenCV, Tkinter, NumPy, Pandas, PyTorch, FAISS
Developer Tools: Git, GitHub, Firebase, REST APIs, Visual Studio Code

ACHIEVEMENTS

- Solved 400+ coding problems across LeetCode, HackerRank, and Coding Ninjas — focused on DSA and problem-solving.
- Achieved LeetCode 100 Days Badge and Specialist Badge from Coding Ninjas.
- Hackathon Participation: Code Clash 2.0 and Adobe India Hackathon.

CERTIFICATIONS

- C++ Programming – Infosys Springboard (May 2025)
- Problem Solving (Basic and Intermediate) – HackerRank