

# GAURAV MEHRA

Chandigarh

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## EDUCATION

Punjab Engineering College , Chandigarh

B.Tech Electronics and Communication Engineering

November 2022 – July 2026

Chandigarh

## PROJECTS

**AI Powered Human Tracking System** | Python — OpenCV — YOLOv8 — Django — MySQL

- Built a real-time AI system using YOLOv8, OpenCV, and Django to detect and track humans from CCTV with 92% accuracy and 200ms latency, enabling alerts, heatmaps, and identity masking.
- Developed a full-stack platform with MySQL and jQuery for live monitoring, role-based access, and historical activity logs via a responsive dashboard.

**Resume Matching System** | Django — LLM — MySQL — React.js — OpenAI GPT

- Developed an AI-based platform using Django, React, and GPT to analyze resumes, detect skill gaps, and match them to job descriptions, improving relevance by 60%.
- Implemented ATS scoring, keyword density metrics, and revision tracking with a responsive UI for resume upload and instant feedback.

**Crisis Navigator** | Node.js — React — MySQL — Dijkstra Algo

- Implemented a real-time emergency response system to allocate ambulances/firetrucks using Dijkstra's algorithm, achieving <2s dispatch latency and reducing simulated response times by 45%.
- Designed RESTful APIs and an admin dashboard to track 100+ active incidents; integrated a Python simulation engine updating statuses every 5s, improving allocation efficiency by 60%.

## INTERNSHIP

**Tech Mahindra**

January 2025 – April 2025

Intern

Pune, Maharashtra

- Led the end-to-end development of an AI-powered surveillance system for real-time human detection, anomaly analysis, and activity logging from CCTV feeds, improving monitoring efficiency by 35%.
- Built automation features like live alerts, heatmaps, and identity masking using YOLOv8 and OpenCV, boosting privacy compliance by 40%.
- Resolved critical authentication and logging bugs in a production AI chatbot, reducing system vulnerabilities by 70% and improving reliability.
- Worked with cross-functional teams in an agile setup to deliver 25% faster model inference and scalable, secure system logging modules.

## TECHNICAL SKILLS

**Languages:** Python, C++, JavaScript, SQL, NoSQL, TypeScript ,

**Developer Tools:** VS Code, Android Studio, DataGrip, Goland, IntelliJ Idea Ultimate , Postman , Google Collab , Workbench, Jupyter Notebook, Anaconda

**Technologies/Frameworks:** Linux, GitHub, ReactJS, NextJS, NodeJS, ExpressJS, Git, MongoDB, Django , Flask , OpenCv , Yolo , Computer Vision , Excel , Tableau , Numpy , Matplotlib, pandas, Tensorflow , Keras

## Achievements

- Solved **400+ DSA problems** across LeetCode (150+), GeeksforGeeks (120+), CodeChef (100+), consistently ranking in top 10–15% in contests.
- HackerRank SQL (Intermediate) Certified** with 90+ percentile, demonstrating strong database skills.
- HackerRank Problem Solving (Intermediate) Certified** after solving 20+ algorithmic challenges.
- Served as **Subhead, Publicity Committee – PECFEST**, leading 15+ volunteers, coordinating with 8+ departments, and engaging 3,000+ students.
- Generative AI – Google Cloud Skills Boost**, gaining practical skills in modern AI workflows.