HARSH JAIN

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EDUCATION

Vellore Institute of Technology   Bhopal, India
Bachelor of Technology in Computer Science (EdTech Specialization), CGPA: 8.77   *Nov 2022 – Present*

TECHNICAL SKILLS

Languages: Python, SQL, Java (DSA), JavaScript
Python Frameworks: FastAPI, Pandas, Scikit-learn, OpenCV
AI & GenAI: LLaMA 3.1, Groq API, MediaPipe, Prompt Engineering, Agentic Workflows
Cloud & Tools: AWS (Lambda, EC2), Docker, Git, Linux, Postman

EXPERIENCE

Python Developer Intern   Oct 2025 – Present
Infosys Springboard   *Remote*
- Architected an **AI-driven quiz engine** using **Python** and **FastAPI**, automating the generation of subject-specific assessments.
- Engineered robust API endpoints to handle concurrent user requests and integrated with a React frontend.
- Optimized backend performance by implementing efficient data validation logic and database indexing.

Salesforce Developer Intern   May 2025 – Jul 2025
TheSmartBridge   *Remote*
- Automated enterprise workflows using Salesforce automation tools, reducing manual data entry tasks by **90%**.
- Developed custom logic to streamline customer loyalty tracking and inventory alerts.

PROJECTS

AI Email Productivity Agent | *Python, FastAPI, LLaMA 3.1, Groq*   Nov 2025
- Developed a production-ready AI agent using **Python (FastAPI)** to automate email categorization and drafting.
- Integrated **Groq** inference engine with **LLaMA 3.1** to achieve sub-second response latency for real-time user interaction.
- Containerized the application using **Docker** and deployed it on **Railway**, handling CORS and environment security.

Invoice Quality Control Service | *Python, Regex, Docker, Pydantic*   Dec 2025
- Built a B2B backend service using **Python** to extract structured financial data from complex PDF invoices.
- Engineered robust **Regex heuristics** to handle dynamic vendor formats (e.g., German currency), achieving **95% accuracy**.
- Implemented rigorous data validation using **Pydantic** models to flag anomalies automatically.

Hand Recognition System | *Python, MediaPipe, OpenCV*   Jan 2024
- Developed a real-time computer vision system in **Python** for tracking hand landmarks and gestures.
- Utilized **MediaPipe** for high-fidelity 21-point 3D landmark detection and **OpenCV** for frame processing.
- Optimized inference performance to run smoothly on standard CPU hardware.

CERTIFICATIONS

AI/ML for Geodata Analysis — ISRO (Jun 2024)
AWS Certified Cloud Practitioner — Amazon Web Services (Jan 2025)
Salesforce Certified Agentforce Specialist — Salesforce (Sept 2025)

ACHIEVEMENTS & LEADERSHIP

Global Hackathon Finalist: Ranked **Top 8** (out of 400+ teams) at **PEARS Global Hackathon 2025** for building a distributed system.
Security Research: Acknowledged by **NCIIPC** for reporting critical security vulnerabilities in an Indian government app.
Club Lead: Led **CyberWarriors Club** (500+ students), organizing 4+ workshops and boosting participation by **40%**.
Open Source: Contributed UI enhancements to active repositories during **Hacktoberfest 2025**.