

# HARSH JAIN

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## EDUCATION

### Vellore Institute of Technology

Bachelor of Technology in Computer Science and Engineering, CGPA: 8.77

Bhopal, India

Nov 2022 – Present

## TECHNICAL SKILLS

**Languages:** Python, Java(DSA), JavaScript (ES6), SQL

**AI/ML:** Matplotlib, PyTorch, Scikit-learn, numpy, Pandas, MediaPipe, opencv

**Web/Backend:** React.js, Gemini API, REST APIs, Spring Boot

**Cloud & DevOps:** Amazon Web Services (EC2, S3, Lambda, DynamoDB, CloudFront), Docker, Git, GitHub, CI/CD

## PROJECTS

### Hand Recognition System | MediaPipe, OpenCV, NumPy

Jan 2025

- Built a real-time hand gesture recognition system in Python
- Utilized MediaPipe for high-fidelity hand tracking and landmark detection
- Applied OpenCV for image processing and rendering results on the video feed

### AI ChatBot Application | Spring Boot, WebClient, React, Gemini API

Oct 2025

- Developed a conversational AI chatbot using the Gemini API
- Implemented a Python backend (Flask) to handle API requests and manage conversation state
- Designed a simple web interface to interact with the bot

### Exploratory Data Analysis | Pandas, Kaggle

Aug 2024

- Performed in-depth data analysis on school and classroom datasets. data preprocessing techniques like value imputation, Z-Score standardization, and data visualization
- Used Pandas for data cleaning, Demonstrates unsupervised learning algorithms for clustering (K-Means) and association rule mining (Apriori)
- data preprocessing techniques like value imputation, Z-Score standardization, and data visualization

## 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)

## EXPERIENCE

### Python Developer Intern

Oct 2025 – present

Infosys

Remote

- Contributed to the development and maintenance of scalable backend services and RESTful APIs using Python. Gained hands-on experience across the entire SDLC, including CI/CD pipelines, code reviews, debugging, and production deployments.

## Co-CURRICULAR ACTIVITIES

**Amazon ML Challenge 2025:** Achieved a Top 150 rank among thousands of participants.

**PEARS Global Hackathon 2025:** Ranked in the Top 8 among 400+ international teams

**Hacktoberfest 2025:** open source contribution "Implement interactive custom cursor for enhanced UI engagement"

**Industry Conclave 2024:** Placed as a Top 10 Finalist out of 500+ university-wide projects

**India Space Lab Examination:** Secured All India Rank (AIR) 452 and selected for internship

**Competitive Programming:** strong grasp of CS fundamentals and contest rating LeetCode (1469) and Codeforces (630)

## RESEARCH & PUBLICATIONS

**5th International Conference on Scientific Research & Innovation Khazar University, Baku, Azerbaijan:**

**Healthcare Data Management Using Blockchain Technology**, presented research on blockchain-based solutions for secure healthcare data management, proposed architecture combining IPFS for storage and Ethereum smart contracts for access control

## EXTRA-CURRICULAR & LEADERSHIP

**Team Leader, CyberWarriors Club, VIT Bhopal:** Led over 4 cybersecurity events and workshops across 3 semesters, engaging more than 500 students and boosting club participation by 40%