

Saloni Chaurasia

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Education

VIT Bhopal University, Bhopal, India

2022 – 2026

B.Tech in Computer Science and Engineering (AI & ML), CGPA: 8.62

Technical Skills

Programming Languages: Python, C++, MySQL

Libraries & Tools: TensorFlow, OpenCV, Pandas, numpy, FastAPI, Scikit-learn

Concepts: Machine Learning, Deep Learning, EDA, NLP, Data Visualization

Projects

Human Activity Recognition Web App (FastAPI + HTML/JS)

2025

- Developed a web-based activity recognition system using **Random Forest Classifier** trained on *UCI HAR Dataset* for classifying activities like walking, sitting, and laying.
- Built a RESTful API using **FastAPI** and created a dynamic frontend using **HTML/CSS/JavaScript** to visualize predictions based on row input.
- Deployed the complete project on **Render** and hosted the codebase on **GitHub**, making it resume-ready for both AIML and SDE profiles.

VOC Image-Based Plant Disease Detection using ML IoT (Group) (Team Lead)

2025

VOC & Image-Based Plant Disease Detection using ML & IoT (Group) (Team Lead)

2025

ML Integration for VOC & Image-Based Plant Disease Detection (My Contribution)

- Integrated **VOC sensors**, soil and temperature data with **machine learning** to detect plant stress and diseases.
 - Combined **sensor data with image datasets** and used **CNNs** for accurate classification.
 - Optimized models with **hyperparameter tuning** and **data augmentation**, and built a **real-time dashboard** for analysis.
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Extracurricular Activities

- Participated in the **Women to Code Hackathon** by GeeksforGeeks; collaborated on tech-driven solutions to real-world problems. Jan 2025
 - Qualified **Round 1 of Google India Girl Hackathon**, showcasing innovation and problem-solving skills in a national-level coding challenge. Feb 2025
 - Advanced through **Round 1 of the Talent Unstop Challenge**, competing among top students nationwide in aptitude and tech challenges.
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Languages

English: Proficient **Hindi:** Native/Bilingual **Japanese:** Basic