

Saloni Chaurasia

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Education

VIT Bhopal University, Bhopal, India

2022 – 2026

B.Tech in Computer Science and Engineering (AI & ML), CGPA: 8.64

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**.

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 Multi-Modal Sensor Data:** Developed a system integrating VOC sensors, soil, and temperature data with machine learning to detect plant stress and diseases at early stages.
 - **Sensor-Image Fusion with CNNs:** Combined diverse sensor data with image datasets and employed Convolutional Neural Networks (CNNs) for highly accurate disease classification.
 - **Optimized Models & Real-Time Dashboard:** Performed ****hyperparameter tuning and data augmentation for model optimization, and built a real-time dashboard**** for continuous analysis and monitoring.
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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