

Rudra Gupta

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Education

Yeshwantrao Chavan College of Engineering, Nagpur

2022 – 2026

Bachelor of Technology — Electronics Engineering

CGPA: 8.42

Honor: VLSI Design

St. Paul School, Nagpur

2021 – 2022

Class XII

Percentage: 77%

Skills

Languages Python, Java(Basic), C/C++, HTML, CSS, SQL

Concepts Machine Learning, Deep Learning, Data Structures & Algorithms, OOP

Tools & IDEs VS Code, Arduino IDE, MySQL, Google Colab, Anaconda

Libraries OpenCV, TensorFlow/Keras, Scikit-learn, Tkinter, Flask

Version Control Git, GitHub

Projects

Sign Language Recognition System

2025 – Present

- Developed a real-time hand gesture recognition system using OpenCV and deep learning (CNN + YOLOv8) with prediction smoothing.
- Evaluated 3 color spaces: **RGB achieved 90% accuracy**; Greyscale ~40%; HSV varied with lighting — RGB selected for production.
- Designed a Tkinter GUI with live video feed and sentence generation for end-to-end accessibility use.

Hyperlocal Weather Impact Prediction

2026 🌐 [Live Site](#)

- Built regression-based ML models to forecast weather impact metrics using real-time OpenWeatherMap API data.
- Performed feature engineering on live API feeds (temperature, humidity, wind speed, pressure) for localized predictions.
- Implemented a lightweight interface for real-time query and display of predicted weather impact scores.

Smart Device Recommendation System

2026

- Developed a full-stack web application to simplify electronics buying using a custom Python recommendation engine.
- Engine analyzes technical specifications (RAM, CPU, GPU) and budget constraints for tailored mobile and laptop suggestions.
- Integrated front-end UI with Python backend to deliver ranked, explainable recommendations in real time.

Internships

AIML Intern — Prevoyance IT Solutions Pvt. Ltd.

2026 – Present

- Worked on real-time computer vision projects including sign language recognition and violence detection systems.
- Implemented deep learning models using CNN, YOLOv8, and OpenCV achieving up to **90% live inference accuracy**.
- Assisted in dataset preprocessing, model evaluation, hyperparameter tuning, and GUI integration.

Electronics Intern — Raj Food Machine

2021 – 2022

- Worked on industrial food-processing machines; assisted with sensor integration, motor control, and automation logic.
- Gained hands-on exposure to electronics hardware, control panels, and industrial workflows.

Certification and Extra-Curricular

- Python 3.4.3 Training — Spoken Tutorial Project, **IIT Bombay** (June 2023, Score: 65%)
- Intel **AI For All** — AI Aware & AI Appreciate stages completed (Feb 2026, Digital India / CBSE)
- Vice President of Sponsorship — College Technical Fest (**ICON**)
- Nagpur District Level Chess Player; represented at State Level (Class 8)