

Rudra Gupta

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Education

Yeshwantrao Chavan College of Engineering, Nagpur <i>Bachelor of Technology — Electronics Engineering</i> <i>Honor: VLSI Design</i>	2022 – 2026 <i>CGPA: 8.42</i>
St. Paul School, Nagpur <i>Class XII</i>	2021 – 2022 <i>Percentage: 77%</i>

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)