

VINAY KUMAR ROUT

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SKILLS SUMMARY

- **Languages:** Python, JavaScript, C
- **AI/ML:** Supervised & Unsupervised Learning, Model Evaluation, Feature Engineering
- **Frameworks & Libraries:** NumPy, Pandas, Scikit-Learn, OpenCV, YOLO, LangChain, Matplotlib
- **Web & UI Tools:** Streamlit, HTML, CSS, JavaScript (Basics)
- **Tools & Platforms:** Git, GitHub, VS Code, Jupyter Notebook, Google Colab, Kaggle
- **Databases:** MySQL, Firebase (Basics)
- **Soft Skills:** Problem Solving, Analytical Thinking, Communication, Team Collaboration, Leadership

WORK EXPERIENCE

Campus Ambassador Intern | [LINK](#)

Dec 2025 - Jan 2026

Entrepreneurship Development Cell (EDC), IIT Delhi

- Represented EDC IIT Delhi as Campus Ambassador, promoting entrepreneurship programs and initiatives.
- Drove student outreach and event promotions, boosting engagement across campus.
- Built leadership and professional communication skills through collaboration with multi-institutional networks.

EDUCATION

Bachelor of Technology (B.Tech) – Computer Science Engineering

(2024 - 2028)

O.P. Jindal University, Raigarh, Chhattisgarh

- Specialization in AI/ML .
- CGPA : 9.1/10 (Current)

Senior Secondary (Class XII)

(2024)

Kids Garden Secondary School, CBSE

- Science (PCM) | Score : 92 %

PROJECTS

RAG-Based AI Chatbot | Python, Streamlit, LangChain, Gemini API

- Built a document-aware chatbot using Retrieval-Augmented Generation with real-time responses via Streamlit UI.

Polynomial-Based Vehicle Detection | Python, OpenCV | [LINK](#)

- Implemented zone-based real-time vehicle detection and tracking using ROI, contour analysis, and polynomial modeling.

Student Marks Predictor | Python, Scikit-learn

- Developed a supervised ML model for academic performance prediction achieving 85%+ accuracy.

Laptop Voice Assistant (Beginner) | Python

- Created a basic voice-controlled assistant for executing system commands and user queries.

CERTIFICATES

- SIH-2025 (Smart India Hackathon) Participation Certificate
- 5+ Online Hackathon Participation Certificates
- Tata Crucible Quiz Participation Certificate
- Tata Cybersecurity Analyst Job Simulation - Forage (July 2025)
- AWS Solutions Architecture Job Simulation - Forage (July 2025)
- AI For Everyone: Python for Beginners - DeepLearning.AI (Coursera)