

RITIK KUMAR

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SUMMARY

B.Tech student focused on **Machine Learning, Generative AI, software development, and practical product building**. Skilled in **Python, C++, Pandas, NumPy, Scikit-learn, FastAPI, Flutter, Firebase/Supabase, Git/GitHub, and REST APIs**. Built and led development of **ReDo Smart Logistics**, a logistics platform addressing underutilized truck capacity through smart backhaul and partially loaded front-haul matching. Strong hands-on exposure through hackathons, application development, and team leadership.

TECHNICAL SKILLS

Programming & Scripting: Python, C++, Dart, JavaScript

Machine Learning: Pandas, NumPy, Scikit-learn, Data Preprocessing, EDA, Feature Engineering, Supervised & Unsupervised Learning, Model Evaluation

Generative AI & LLMs: LLM fundamentals, Prompt Engineering, Transformers, Hugging Face, Generative AI concepts

AI Automation & Tools: FastAPI, Pydantic, REST APIs, Node.js

App & Web Development: Flutter, Firebase, Android Development, React, Vite, HTML, CSS, JavaScript

Database & Deployment: Supabase, Firebase, Git/GitHub

Data Visualization: Matplotlib, Seaborn, Plotly

PROJECTS

ReDo Smart Logistics — Smart Backhaul Network

2026

Hackathon Project | Team Leader

- Developed a **logistics platform** connecting customers with truck owners/drivers to utilize unused truck capacity.
- Designed the platform for both **backhaul trips and partially loaded front-haul journeys** to improve vehicle utilization.
- Built separate **customer and partner workflows** covering pickup selection, driver discovery, booking, and delivery management.
- Implemented **location-based dispatch logic** using pickup distance, truck capacity, and driver availability.
- Designed **time-bound driver offers with Accept/Skip actions and atomic booking confirmation**.
- Worked across **Flutter, backend APIs, Supabase/Firebase, maps/location services, and push notifications**.

FocusAI — AI-Based Study Focus Application

2026

Computer Vision / Productivity Project

- Built a study productivity concept using **YOLO-based object detection** to detect mobile phone usage during study sessions.
- Designed **focus timer, real-time alerts, daily reports, focus score, and productivity visualization** features.

Attendance Management System

2026

Web Application

- Developed a web-based attendance application using **React, Vite, and Firebase** with cloud-based data management.

HACKATHONS & LEADERSHIP

Smart India Hackathon (SIH) 2026 — ReDo Smart Logistics

2026

Team: The Pandas | ReDo project

- Developed and presented **ReDo Smart Logistics** as the team's solution for improving logistics utilization and reducing empty/underutilized truck journeys.
- Contributed to **product architecture, application development, backend workflows, presentation, and team coordination**.
- **SIH participation certificate available**.

IIIT Delhi — IndustrySolve Idea-Thon & Product-a-Thon

2026

Team Leader | ReDo Smart Logistics

- Led the team through **product ideation, technical development, pitching, and coordination**.
- Reached the **Top 60 among 132 participating teams**.

ISRO Antriksh Hackathon

2026

Team Member | Project Astra

- Participated in a team-based space research hackathon and worked on **Astra**, a technology-driven solution for a space-related problem statement.

EDUCATION

JSS Academy of Technical Education, Noida, Uttar Pradesh <i>Bachelor of Technology — Computer Science & Engineering</i> Relevant focus: Machine Learning, Data Science, Software Development, APIs, and AI applications.	2025–2029
Purnea College, Bihar <i>Class XII — Bihar Board</i>	2024

CERTIFICATIONS & ACHIEVEMENTS

- **IBM Certificate:** IBM certification/course completion — certificate available.
- **Smart India Hackathon:** Participation certificate — SIH 2026.
- **IIT Delhi Idea-Thon & Product-a-Thon 2026:** Top 60 among 132 participating teams.
- **Team Leadership:** Team Leader for ReDo Smart Logistics project.
- **ISRO Antriksh Hackathon 2026:** Participation in Team Astra.
- **ML Learning:** Hands-on learning in Python, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, and Machine Learning.
- **IMPERIUM MUN debate:** actively participated in Imperium, the Intra-College Model United Nations organised by Impetus Student Society on 12th September 2026, contributing with conviction to its debate and diplomacy.

RELEVANT COURSEWORK / CURRENT LEARNING

- **Machine Learning:** regression, classification, clustering, model evaluation, feature engineering, preprocessing, and EDA.
- **Backend Development:** FastAPI, Pydantic, REST API design, authentication concepts, and database integration.
- **Generative AI:** LLM fundamentals, prompt engineering, Hugging Face ecosystem, and AI application development.
- **DSA:** C++, recursion, backtracking, problem solving, and competitive programming fundamentals.

LEADERSHIP & STRENGTHS

- **Team leadership and coordination** in hackathons and product-development environments.
- **Problem solving, rapid prototyping, presentation,** and converting real-world problems into deployable product concepts.
- **Hands-on experience** working across mobile applications, backend services, databases, APIs, and ML workflows.

LANGUAGES

Hindi: Native | **English:** Working Proficiency