



Kunal Kumar Gupta

B.Tech — Mathematics and Computing (2023–2027)
Rajiv Gandhi Institute of Petroleum Technology (RGPT)

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LinkedIn

SUMMARY

3rd-year B.Tech student in Mathematics and Computing with a strong foundation in software engineering, data structures, and algorithms. Skilled in Python, C++, and full-stack development with experience building scalable backend systems, APIs, and data-driven applications. Passionate about applying technology and AI to create secure, reliable, and high-performance fintech solutions.

TECHNICAL SKILLS

Programming: C, C++, Python, JavaScript; Data Structures & Algorithms

Data Science & ML: EDA, feature engineering, supervised/unsupervised learning, evaluation/optimization, deep learning, prompt engineering, SQL

Libraries/Frameworks: Pandas, NumPy, scikit-learn, Matplotlib, Seaborn, Plotly, FastAPI, Streamlit, Flutter

Tools & Platforms: Jupyter, Google Colab, Git, GitHub, Render, Netlify

Web: HTML, CSS, JavaScript

PROJECTS

Pharmaceutical Agentic AI Research Platform

Multi-agent AI platform for pharma research with OpenAI (ChatGPT) and Google Gemini.

- 7-agent orchestration for literature, trials, and patent analysis.
- Real-time ingestion from PubMed, ClinicalTrials.gov, and USPTO with automated synthesis.
- Cost tracking, rate limiting, React UI; Dockerized for deployment.
- **Tools:** Python, OpenAI, Google Gemini, React, Docker

Campus Compass (RAG)

RAG assistant answering campus queries from official documents with source citations.

- Ingests PDF/DOCX/TXT with OCR (TrOCR, EasyOCR) and intelligent chunking.
- FAISS vector search; LLaMA 3 8B via Hugging Face API for QA.
- Transparent responses with linked sources.
- **Tools:** Python, FAISS, TrOCR, EasyOCR, Hugging Face Inference API

ACHIEVEMENTS

Hackathon Winner— HACK THE FUTURE: Innovating Intelligent Data Insights IIT Gandhinagar 2025

CERTIFICATIONS

Mastering Data Structures & Algorithms using C and C++ Udemy Course

Machine Learning Specialization Coursera — Stanford

Data Science Workshop IIT Bombay

C Programming for Beginners — Master the C Language Udemy Course

EDUCATION

Rajiv Gandhi Institute of Petroleum Technology (RGPT)

B.Tech. in Mathematics and Computing (CPI: 7.22/10)

Jais, Amethi

2023–2027

Saint John's Senior Secondary School

CBSE Board — Science (Percentage: 78%)

2022

Little Flower School

ICSE Board (Percentage: 94%)

Jamshedpur

2020

KEY COURSES / RESEARCH INTERESTS

Data Structures & Algorithms, Machine Learning, Deep Learning, Probability & Statistics, Linear Algebra, Database Management Systems