

ROHAN GUPTA

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LinkedIn

Github

LeetCode

Education

Jaypee Institute of Information Technology

Bachelor of Technology - Computer Science; CGPA: 8.2

Noida, India

Jul 2023 – May 2027

- **Core Coursework:** Data Structures & Algorithms, Object Oriented Programming (OOP), Database Management Systems (DBMS), Operating Systems, Computer Networks, Software Engineering, Web Services.

Experience

Motilal Oswal Financial Services

Intern

Jun 2025 – Aug 2025

Mumbai, India

- Built a customer support chatbot using **LangChain**, **LangGraph** and **FastAPI** for automated query support.
- Designed a **multi-agent orchestration system** with **10+ tool-based agents** enabling intelligent API invocation and parallel task execution.
- Implemented a **Graph-RAG pipeline** for real-time market research, improving response accuracy by **35%**.
- Integrated **Redis** for **caching** to reduce latency and **ChromaDB** as a **vector database** for semantic memory.

Projects

CodeSight AI [View Project] | LangGraph, FastAPI, Redis, PostgreSQL, React

Jan 2026 – Feb 2026

- Built an **AI-powered GitHub repository code reviewer** using **LangChain**, **LangGraph**, and **FastAPI** to analyze **100+** source files per repository and generate automated improvement suggestions.
- Integrated **MCP tools** for direct repository access and intelligent code inspection across **1,000+** lines of code .
- Implemented **Redis caching** to optimize repeated analysis workflows and reduce response latency by **60%**.
- Designed **agent orchestration pipeline**coordinating **5+ specialized agents** for modular code analysis.

Solar Power Prediction [View Project] | Pandas, Matplotlib, Scikit-learn, Kaggle

Feb 2025 – Mar 2025

- Performed comprehensive **Exploratory Data Analysis (EDA)** on a **120,000+** record solar power dataset.
- Engineered predictive models using **Linear Regression, Decision Trees, and Random Forests**, achieving an **R-squared score of 0.92**.
- Optimized feature selection and hyperparameters, reducing prediction error by **15%**.

V-Call [View Project] | Django, REST API, Azure Speech Services, WebSockets

May 2025 – Jun 2025

- Developed a **multi-user video calling platform** using **Agora SDK** and **WebRTC** with 99.99% uptime.
- Integrated **real-time speech-to-speech translation, live captions, and language translation** using **Azure Speech Services**, achieving **90% accuracy** across **100+** languages.
- Implemented a **real-time chat system** with **WebSockets**, supporting automatic message translation .

Technical Skills

Languages: C/C++, Python, PHP, HTML, CSS, JavaScript, SQL

Frameworks and Libraries: React.Js, Scikit-learn, TensorFlow, Flask, Django, LangChain, LangGraph , MCP

Database: MySQL, PostgreSQL, Redis, SQLite , MongoDB

API and Networking: FastAPI, RESTful API, WebRTC, WebSockets

Developer Tools: Visual Studio, Jupyter Notebooks, GitHub, Git

Skills: Data Structures and Algorithms, DBMS, Machine Learning , Web Development, GenAI

Community Development

Google Developer Groups

Noida, India

AI/ML Lead

Sep 2024 – Present

- Played an important role in organizing **BITBOX 5.0**, a national-level hackathon by GDG-JIIT, managing website development, event operations, and participant logistics for **200+ competing teams**.

Achievements

- Contest rating of 1517 on Leetcode.
- Solved **500+ DSA problems** across platforms like **LeetCode, Codeforces, and GeeksforGeeks**.