

# ROHAN GUPTA

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## Education

### Jaypee Institute of Information Technology

Noida, India

Bachelor of Technology - Computer Science; CGPA: 8.2

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

Jun 2025 – Aug 2025

Intern

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**.