

Rishabh Gupta

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CAREER OBJECTIVE

Computer Science undergraduate at VIT-AP University with hands-on experience in AI applications, machine learning, and LLM integration. Seeking to build intelligent AI systems using Python, APIs, and agentic workflows to solve real-world problems. Interested in developing reliable, scalable AI applications that combine automation, reasoning, and data-driven insights.

TECHNICAL SKILLS

Python, Java, SQL, Pandas, NumPy, Scikit-learn, Machine Learning, Deep Learning Fundamentals, NLP Fundamentals, Generative AI, Large Language Models (LLMs), Prompt Engineering, LLM API Integration, Groq API, LangChain, LangGraph Fundamentals, Retrieval-Augmented Generation (RAG), Text Embeddings, Vector Embeddings, Semantic Search, Vector Databases, AI Agents, Tool Calling, Task Planning, Workflow Orchestration, Execution Verification, Human-in-the-Loop Approval, REST APIs, FastAPI, Flask, Streamlit, PostgreSQL, MongoDB, Git, GitHub, Docker, Linux, AWS Fundamentals, Matplotlib, Plotly, and Power BI.

NON-TECHNICAL SKILLS

Teamwork, Leadership, Critical Thinking, Problem Solving, Decision Making, Adaptability, Research & Analysis, Strategic Thinking, Cross Functional Collaboration

PROJECTS

DataPilot-AI (AI-Powered Data Analysis Copilot)

Built an LLM-powered data analysis copilot using **Python, Streamlit, Pandas, and Groq**, automating data cleaning, profiling, EDA, and natural-language data analysis. Designed modular AI agents and processing pipelines to generate automated insights, visualizations, and analytical reports from raw datasets.

CentrAlign AI — Autonomous AI Worker | Python, AI Workflows, Tool Execution

Developed an AI workflow system for task planning, tool execution, and outcome verification. Implemented finance-system workflow scenarios with structured data operations, exception handling, and human-approval gates for sensitive actions, and tested successful and failed execution paths. Focused on improving workflow traceability by checking execution results and incorporating human oversight into sensitive operations.

PROFESSIONAL EXPERIENCE

Machine Learning Intern | Springer Capital

09/2025 – 12/2025

Developed a machine learning pipeline using the CICIoMT dataset to analyze medical IoT network traffic and detect anomalous behavior. Performed data preprocessing, feature engineering, model training, and evaluation to improve the security and reliability of connected healthcare devices.

EDUCATION

Bachelor of Technology, VIT-AP University

2023 – 2027

Branch: Computer Science Engineering | CGPA: 7

ADDITIONAL INFORMATION

- **Languages** - English, Hindi
- **AWS Certified Cloud Practitioner**
- **Internshala Certified Data Analyst**
- **Hashgraph Certified Developer**