Yash Gupta

Data Scientist

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in LinkedIn

○ Github

Education

Bachelor of Technology, Computer Science GPA - 8.4
SRM University
07/2018 – 07/2022
Passed with 84%

Artificial Intelligence and Ethical hacking
Indian Institute of Technology, Bombay
08/2018 – 09/2018
Artificial Intelligence and Ethical hacking workshop

Skills

Languages and DataBases
Python, SQL, DuckDB, SQLite, Vector DBs (FAISS, ChromaDB)

ML/Al techniques
Supervised & Unsupervised ML, Bagging/Boosting, NLP, Deep Learning, Scikit-Learn, TensorFlow, PyTorch

Generative Al Technologies
LLMs (OpenAI, Claude, Llama, Gemini), LangChain, Prompt Engineering, RAG, Fine-Tuning

Cloud & MLOps
GCP, AWS (EC2, S3, Athena), Git, CI/CD, FastAPI, Streamlit, Tableau

Others
Statistics, EDA, A/B Testing, Linear Algebra

Projects

AI-Powered Financial Derivatives Valuation Platform
08/2025 – 10/2025
- Built a fully **automated web application** for derivative valuation, integrating the **OPM & MCS** reducing manual valuation effort by ~**80%**.
- Implemented **prompt engineering** for **MCS** simulations, reducing development time by ~**70%**.
- Deployed and maintained the application on Google Cloud Platform (**GCP**) **virtual machines**, improving reliability and scalability, while managing version control and **CI/CD** workflows with **Git**.

AI Assistant for Quant Backtesting Framework
LangChain, LLMs, Prompt Engineering, Python, Fine Tuning
07/2025 – Present
- Developing an **AI-powered assistant** for a proprietary object-oriented Python backtesting framework, enabling **natural language strategy creation and explanation** for traders.
- Designing **prompt templates** that generate executable strategy code and extract **underlying logic & parameters**, reducing manual coding time and improving user accessibility.

Experience

Data Scientist
Asiatic Stock and Securities limited
11/2024 – Present
- Implemented speech-to-text and **GPT APIs** to transcribe investor calls, generate summaries, and extract key insights for targeted use cases.
- Designed, Cleaned and maintained financial databases **(DuckDB, SQLite,SPXW)** including MCX commodities, and Indian stock indices, enabling efficient data analysis and retrieval.
- Conducted in-depth analysis of option strategies and made **portfolio-level risk management frameworks** to enhance strategy robustness.

Quantitative Analyst / Developer
Paid - Contractual Based (Kryptomatch Intelligence Services , HNI clients)
03/2023 – 10/2024
- Built and executed ETL pipelines on **AWS EC2** to extract data from cryptocurrency exchanges,and integrated processed data into **AWS S3 bucket** and Google drive api.
- Developed many real-time Cryptocurrency Scanner, leveraging **APIs** from KuCoin, Binance, and Bybit, enabling tracking of 1000+ crypto.
- Engineered a custom **object-oriented** backtesting framework in **Python** to simulate and evaluate Spot and Options trading strategies.

Data Analyst
DMI Finance Private Limited
05/2022 – 09/2022
- Conducted customer segmentation analysis on NTC customers of various partners to identify patterns and trends.
- Queried and extracted over 500,000 data records in **SQL** using **AWS Athena** for further portfolio analysis.