Anupam Verma
Engineer 1

📍 Chennai, Tamil Nadu, India

✉ anupam215769@gmail.com

🔗 Github🔗

🔗 Tableau Public🔗

🔗 Linkedin🔗

🔗 Portfolio Website🔗

🧠 SKILLS

Generative AI ●●●●○
RAG, LangChain, LlamaIndex, Langgraph, CrewAI

Data Analysis & Visualisation ●●●●○
Tableau, Power BI

Programming ●●●○○
Python, C++, C

Web Scraping & Automation ●●●○○
Selenium

Vector Stores ●●●○○
Qdrant, Chroma, FAISS, Pinecone

Databases ●●○○○
MySQL

Data Wrangling & ETL ●●●○○
Tableau Prep Builder, Power Query

🎓 EDUCATION

Post Graduate Diploma in Data Science (PGDDS), Symbiosis Centre for Distance Learning
Jul 2023 – present

B. Tech, CSE, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
2019 – 2023
Passed with 9.08 CGPA

12th,
Kendriya Vidyalaya Sangathan
2018 – 2019
Passed with 83.2%

10th,
Kendriya Vidyalaya Sangathan
2016 – 2017
Passed with 9.2 CGPA

💼 EXPERIENCE

Comcast, Engineer 1
Jul 2023 – present
Generative AI
- Engineered a Retrieval-Augmented Generation (RAG) system with LangChain and CrewAI to efficiently query extensive codebases, comprising millions of lines to suggest code improvements, detect bugs, generate test cases, and document new RDK contributions efficiently.
- Employed Web Scraping and Selenium automation to extract relevant information about contributions like Test Procedures, Reason for Change and download Patches from the website.
- Offered insightful suggestions for code enhancement and bug detection pre-merger, enhancing code quality and minimizing potential errors.
- Generated thorough documentation of the codebase by meticulously analyzing the program's structure and functionality.
- Subsequently, the results of this analysis were seamlessly updated in Jira tickets via the Jira API, facilitating streamlined communication and tracking of code changes and their impact.
- Utilized GPT-4 for advanced analysis and employed the "text-embedding-3-large" model to create embeddings. Implemented the Qdrant vector store for efficient storage and retrieval of these embeddings.

Tableau
- Developed and designed interactive RDK dashboards, including clone metrics portal, code metrics portal, contribution metrics portal, and others, using Tableau, significantly improving data accessibility and efficiency for the stakeholders.
- Leveraged advanced data visualization techniques within Tableau to create visually appealing charts, graphs, and maps that effectively represented complex data, resulting in increased data comprehension among stakeholders.
- Implemented innovative data integration strategies using Tableau Prep Builder for cleansing and transformation of data, leading to enhanced efficiency in loading data into MySQL databases and ensuring a streamlined workflow.
- Collaborated with stakeholders to gather requirements and translate business needs into actionable data visualizations, ensuring alignment with organizational goals and meeting stakeholders' expectations with high satisfaction.

Comcast, Intern
Jan 2023 – Jun 2023
- Gained hands-on experience in creating impactful Tableau dashboards by incorporating essential elements such as filters, parameters, bins, and groups to enhance data exploration and interactivity.
- Utilized the acquired knowledge to develop visually appealing visualizations that effectively communicated insights, enabling stakeholders to make data-driven decisions.
- Collaborated with senior analysts to analyze data requirements, ensuring the dashboards met the specific needs of stakeholders and aligned with project objectives.

📁 PERSONAL PROJECTS

Movie Recommendation System, [numpy | pandas | scikit-learn] 🔗
- Created a content-based movie recommender system employing cosine similarity to effectively suggest movies aligned with users' preferences.

Patient360 Healthcare Dashboard, [Tableau | Excel] 🔗
- Offers a concise overview of key patient metrics including total patients, gender distribution, average age, procedures, encounters, and visits.

Lending Club Exploratory Data Analysis, [scipy | seaborn | matplotlib] 🔗
- Analyzed LendingClub.com's lending data spanning 2007-2010 to uncover insights crucial for risk evaluation and business strategy.

🏅 CERTIFICATES

- Fundamentals of Deep Learning by NVIDIA 🔗
- AWS Academy Machine Learning Foundations 🔗