Anupam Verma

Engineer 1

Chennai, Tamil Nadu, India

anupam215769@gmail.com

Tableau Public 🔗

Linkedin 🔗

Github 🔗

Portfolio Website 🔗

SKILLS

Data Analysis and Visualisation
Tableau, Power BI

Generative AI
Azure OpenAI, LLMs, RAG, LangChain

Programming
Python, R, C++, C

Vector Stores
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) framework leveraging the LangChain infrastructure to efficiently query extensive codebases, comprising millions of lines, facilitating the comparison between original and modified code implementations.
- 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.
- Leveraged the Azure OpenAI API to access advanced models such as "text-embedding-3-large" for creating embeddings of data. Employed the Chroma Vector Store for efficient storage and retrieval of generated embeddings.
- Implemented a retrieval-based system using "gpt-3.5-turbo-16k" to enhance response efficiency and accuracy. Integrated with a retriever to fetch relevant embeddings from the vector store.

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 team.
- 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, leading to enhanced efficiency in loading data into MySQL databases and ensuring a streamlined workflow.
- Orchestrated the cleansing and transformation of data through Tableau Prep Builder's ETL capabilities, significantly enhancing data quality and ensuring seamless integration into MySQL databases.
- 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

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

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.

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 🔗