Shamanvith Pavuluri

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EDUCATION

Ace Engineering College, Hyderabad
Bachelor of Technology in Electronics and Communication Engineering
Applied Mathematics, Database Management System, Big Data Analytics, Object Oriented Programming

EXPERIENCE

Propelsys Technologies - Neiman Marcus Group (Client)
Data Analyst (Semantic Layer) Aug 2024 - Present

- Engineered comprehensive solutions within an Agile framework for the Semantics Layer team, addressing complex business challenges through meticulous requirements analysis, codebase enhancement, rigorous testing protocols, user acceptance validation, and seamless implementation. These efforts yielded scalable and efficient results for the supply chain and financial dashboards.
- Conceptualized and executed advanced technical architectures leveraging Python, SQL, and Snowflake, with a focus on data modeling and governance to streamline supply chain analytics and financial systems on cloud platforms such as AWS and Azure.
- Partnered strategically with multidisciplinary stakeholders, encompassing business units and technical collaborators, to extract precise data insights, refine operational workflows, and craft bespoke solutions aligned with overarching business objectives, driving enhanced operational and financial performance.

SKILLS

- Programming Languages:	Python, R, SQL, JavaScript, C, React, Docker, Kubernetes
- Tools & Technologies:	Snowflake, Jupyter Notebook, RStudio, AWS, GCP, Azure Data Studio, MS SQL Server, Oracle SQL Developer, Tableau, Qlik, Power BI, Looker, JIRA, Azure DevOps, Figma, Microsoft Office Suite (Word, Excel, PowerPoint)
- **Frameworks:**	Flask, Django, Pandas, Matplotlib, Seaborn, NumPy

PROJECTS

Fraud Transaction Filtering and Analysis

- Developed a robust data pipeline to identify and filter fraudulent transactions using SQL and Python.
- Implemented advanced filtering algorithms based on transaction patterns, anomaly detection, and rule-based logic to detect irregularities.

Financial Department Dashboards

- Designed SQL queries and integrated Tableau and Qlik dashboards for finance analytics, ensuring 99% data accuracy.

Data Modelling for Efficient Data Warehousing

- Designed and implemented a comprehensive data model to support efficient data storage and analysis, utilizing Docker for containerization.

LLM-Based SQL Query Generator for Data Insights

- Played an important role in building a LLM model integrated with a company's database to automatically generate SQL queries based on natural language commands. The solution also executes the queries and displays results alongside the generated query for easy decision-making. This project leverages Snowflake for database management and Python for AI modelling.
- Technologies: Python, SQL, Snowflake, Natural Language Processing (NLP), AI Model

Fiscal Year Transition System

- Played an important role in the transformation of fiscal year data from NMG's Fiscal Year to Saks Global Fiscal Year within the company's financial systems. This initiative significantly improved accuracy in financial reporting and facilitated smoother transitions by automating the process of data alignment, reconciliation, and generation of transition reports.
- Technologies: SQL, Python, AWS, Financial Systems