Shamanvith Pavuluri

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EDUCATION

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

EXPERIENCE

Propelsys Technologies - Client: Saks Global *Data Engineer & Analyst* **Aug 2024 - Present**

- Engineered scalable ETL pipelines and automated workflows within an Agile framework to support the Semantics Layer and downstream reporting use cases.

- Designed and built data mart models (dimension and fact tables) using DBT, SQL, and Snowflake, applying best practices in Data Vault and dimensional modelling.

- Integrated curated marts into downstream sales audit models, enabling robust data reconciliation, exception handling, and financial reporting across business units.

- Partnered with cross-functional teams to analyse data requirements and translate business logic into optimized transformation logic for supply chain and finance analytics.

- Enhanced data reliability and performance by developing modular ETL components, applying version control via GitHub, and deploying via Astro on AWS.

SKILLS

- **Programming Languages:** SQL, Python, C, HTML, CSS

- **Tools & Technologies:** Snowflake, GitHub, DBT, Astro, Jupyter Notebook, RStudio, AWS, GCP, Azure Data Studio, MS SQL Server, Oracle SQL Developer, Tableau, Qlik, Power BI, Looker, JIRA, Azure DevOps, Microsoft Office Suite (Word, Excel, PowerPoint), Coalesce

- **Frameworks:** Flask, Django, Pandas, Matplotlib, Seaborn, NumPy

PROJECTS

Supply Chain Dashboards (Semantic Layer)

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

- Designed and implemented a comprehensive data model to support efficient data storage and analysis.

AI-Powered Data Analysis using Snowflake Cortex Analyst

- Leveraged Snowflake Cortex Analyst to query structured e-commerce datasets using conversational natural language, eliminating the need to write complex SQL.

- Generated business insights by asking follow-up questions to analyze revenue and product performance, as Cortex maintains context across the conversation.

- Controlled and governed data access for different analyst profiles by creating and applying configurations using YAML files.

- Customized the analyst user interface by integrating Python code to define titles and descriptive details for a more guided user experience.

- **Technologies:** Snowflake Cortex Analyst, Python, YAML

Automated E-commerce Data Pipeline for AI-Powered Sentiment Analysis

- Built a fully automated, AI-ready data pipeline using Coalesce to transform and model raw e-commerce clickstream, customer, and order data.

- Developed and cleaned dimension tables (DIM_CUSTOMER, DIM_MENU) and fact tables (FACT_ORDER) to establish a semantic layer with clear business logic for reporting.

- Embedded the Snowflake Cortex LLM_COMPLETE() function directly into the SQL transformation pipeline to perform sentiment analysis on unstructured customer reviews.

- Mapped AI-generated sentiment labels (e.g., Positive, Negative) to a structured STAR_RATING column, creating ready-to-consume tables for business intelligence and applications.

- **Technologies:** Coalesce, Snowflake Cortex