

Satyavarshini Manku

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WORK EXPERIENCE

Software Engineer-II, Bristol Myers Squibb, Hyderabad, Telangana.

Aug 2024 – Present

Senior Software Engineer, TEKsystems Global Services, Hyderabad, Telangana.

Aug 2021 – Aug 2024

SKILLS

- SQL, AWS services, PySpark, Python, Bash (LINUX), DBT, Gen AI, Data Modelling, Snowflake, PostgreSQL, Matillion, Alteryx, Informatica, SSIS, Postman API, Tableau, Power BI, Machine Learning.

Project – Data Engineer| Cell Therapy – Decision Engine

- Designed and implemented a scalable, efficient data pipeline using PySpark on AWS Glue to normalize evolving manufacturing recipe and step ID data, enabling real-time process duration tracking and driving actionable insights to reduce turnaround time (TAT).
- Developed scalable data products using AWS Glue and PySpark to provide real-time visibility into capacity versus demand across daily, weekly, and monthly horizons, enabling stakeholders to identify supply-demand gaps and make data-driven decisions to proactively mitigate operational constraints.
- Architected a scalable data model and built robust pipelines in DBT running on AWS Glue to assess weekly inventory health risk, integrating safety stock levels, historical consumption, and projected demand delivering actionable insights that supported smarter procurement and reduced supply chain costs.

Project – Data Engineer| Medtronic

- Orchestrated the data migration pipelines in AWS glue by generating optimized PySpark scripts for flattening and transforming unstructured JSON data and storing the entire information in Parquet files.
- Designed and implemented the curated layer which handles the Change Data Capture mechanism and stores the data from parquet files in Apache Iceberg dimensional tables.

Project – Data Engineer | Allegis Group

- Leveraged **Informatica**, **SSIS**, and **Matillion** to expertly manage data extraction, transformation, and bulk load of processes. 35 Informatica workflows and 10 SSIS packages migrated within just 4-month time frame.
- Led a high-performing team of 8 data engineers, providing clear direction, delegating tasks, and ensuring seamless alignment with project objectives.
- Engineered and automated intricate Informatica workflows within Matillion, significantly reducing manual intervention. This streamlined the extraction of data from **Files & Salesforce**, enabled seamless transformations, and facilitated efficient bulk loading into **Snowflake**, resulting in precise data transfers with single shared job.
- Extracted the huge amount of base-64 encoded binary data from Salesforce and migrated to images and store it in S3 using python in **AWS Lambda**, achieving a notable 40% increase in storage efficiency of data warehouse.
- Done and dusted a new Matillion ETL job which structured and automated data validation for 90 million records, acted as a savior of time and reduced the manual efforts by 50%.
- Troubleshooting and debugging Matillion ETL pipelines, ensuring seamless data flow and optimal performance.

Project – Data Engineer | KOCH Business Solutions

- Crafted diverse data extraction, preprocessing, development, and manipulation of tasks in accordance with the demands of the business through **Matillion** ETL pipelines, increasing data transformation efficiency by 40%.
- Significant expertise in data extraction from different sources like MuleSoft (Data Lake) and **Salespoint**, accomplished by coding the **Python** and **Bash** scripts to execute multiple API calls.
- Complied with numerous client requests, addressing various functional, data related issues, and developing enhancements from end-to-end (spanning from **Amazon Redshift** to **Tableau**), diminishing data errors by 95%.
- Engineered a high-performance real-time data pipeline in Matillion, integrating and processing an impressive 80 million records of unstructured data from various **API** calls, optimizing data throughput and accessibility.

PROFESSIONAL CERTIFICATES

- Prompt Design** in Vertex AI, **Matillion** Associate, **AWS** Developer Associate, Cambridge English: Business Vantage- CEFR Level B1.

ACHIEVEMENTS

- Received many SPOT awards for consistency, accountability, innovation, passion in various aspects..

EDUCATION

Bachelor of Technology in Information Technology, GPA 8.95/10
SRKR Engineering College, Bhimavaram, Andhra Pradesh, India

Jul 2017 - Jul 2021