SAI RAMANA

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Summary

- **3 years** of hands-on experience in designing, building, and maintaining data infrastructure and pipelines
- Proficient in **ETL processes**, including data extraction, transformation, and loading across diverse data sources.
- Skilled in using **Python** and **SQL** to build data pipelines and perform data analysis.
- Experienced with **Azure Data Factory**, **Databricks**, **Synapse Analytics**, Cosmos DB for **ETL** and data processing, with knowledge of **Medallion architecture.**
- Proficient in designing analytics-optimized **star and snowflake schema data models**, structured with a central fact table for metric aggregations, supplemented by extended normalized dimension tables (snowflake approach) to minimize redundant join operations.
- Adept at optimizing data workflows, improving data quality, and ensuring data integrity.
- Skilled developer with extensive experience in utilizing **GitHub** for version control and team collaboration.
- Strong collaboration and communication skills, working with cross-functional teams to meet data requirements

Experience

BCBS, TX

Role: Data Engineer   August 2023 - Present

- Developed and maintained ETL pipelines using **Azure Data Factory**, ensuring seamless data extraction, transformation, and loading from diverse data sources to target systems.
- Leveraged **Azure Databricks** with **Apache Spark** to process, clean, and enrich real-time data streams, delivering actionable insights on customer behavior patterns and engagement metrics.
- Designed and maintained scalable data storage solutions in **Azure Data Lake Storage**, organizing both raw and processed data for efficient querying and analysis.
- Utilized **Azure Synapse Analytics** to perform advanced data aggregation and analytics, providing marketing and analytics teams with real-time insights into customer journey patterns.
- Created dynamic **Power BI** dashboards to visualize key customer behavior trends, enabling marketing optimization and data-driven decision-making.

Sarag Systems, India

Role: Data Engineer   January 2021 – July 2022

- Engineered efficient SQL queries and scripts for data manipulation utilizing complex **DDL, DML, joins, subqueries, window functions, triggers, CTEs, Views, packages, functions, and stored procedures** to optimize database operations.
- Demonstrated expertise in establishing scalable and reliable data pipelines, **ETL** (Extract-Transform-Load) processes, and scheduling workflows for seamless data integration.
- Architected **batch and streaming data** pipelines leveraging diverse technologies including SSIS, Sqoop, Apache Kafka, Hive, Spark, Hadoop, and Power BI for comprehensive data processing solutions.
- Developed dimensional data models and star schema data marts, implementing Slowly Changing Dimensions (**SCD**) and Change Data Capture (**CDC**) processes to effectively track historical changes.
- Executed thorough data profiling and cleansing operations using **Python scripts and SQL queries** to ensure data quality and integrity.
- Designed and implemented Slowly Changing Dimensions (**SCD**) logic through SQL methodologies to effectively handle data mutations in dimensional modeling.

Certification

Microsoft Certified: Azure Data Engineer Associate

Education

Master's: Computer Science, University of Central Missouri, Lees Sumit, Missouri.
Bachelor's: Computer Science, Jyothishmathi Institute of Technology and Science, Karimnagar, Telangana.

Skills

Big Data Technologies: Apache Spark, Hadoop, Kafka, Hive, HBase
Cloud Platforms: Azure (Azure Data Factory, Azure Synapse Analytics, Databricks, Cosmos DB), AWS,GCP.
Data Warehousing: Snowflake, Google Big Query, Star/Snowflake Schema Design, Data Lakes
ETL & Data Pipelines: Azure Data Factory, Apache Nifi, Databricks, Experience with transformation, data cleansing, and orchestration
Programming Languages: Python, Scala, SQL, Spark SQL
Data Modeling: Star and Snowflake Schema, Data Warehousing Concepts, Medallion Architecture
Native Languages: Telugu, Hindi.