Ajith Kumar P

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Results-driven Data Engineer with expertise in designing and implementing scalable data pipelines and models using cloud platforms like Azure and AWS. Proficient in tools such as Snowflake, DBT, Power BI, and programming in Python and SQL for efficient data processing and analysis. Certified in Snowflake, DBT, and Databricks, with a track record of delivering actionable insights and publishing thought leadership articles. Skilled in collaborating with stakeholders to enable data-driven decision-making. Eager to contribute my skills and learn from the best in the IT industry, I'm excited to be part of the dynamic world of Data Engineering.

PROFESSIONAL EXPERIENCE

Blue Cloud Service Inc   2023 – 2024
Associate Data Engineer

E-Commerce Data Analysis:
- Implemented Python scripts for data extraction and transformation from online store sources, loading it into SQL Server.
- Utilized Azure Data Factory (ADF) for orchestrating data movement to Azure container storage and Snowflake.
- Designed and implemented data models within Snowflake to optimize e-commerce store data for analysis.
- Developed Power BI dashboards to visualize transformed data, providing actionable insights into store performance.
  Tech stack: SSMS, Azure Data Factory, Azure Container, Snowflake, Power BI

Optisol Business Solutions   At Present
Data Engineer

Snowflake-Powered Market Research Analytic:
- Implemented an ELT pipeline leveraging AWS S3, Snowflake, and DBT for efficient data processing and analytics.
- Implemented automated data loading from AWS S3 into Snowflake tables using Snowpipe, ensuring real-time data availability.
- Utilized dbt to construct comprehensive transformations, facilitating seamless migration from source to target databases within Snowflake.
- Engineered an incremental model in DBT for efficient processing of incremental data, enhancing data processing capabilities and reducing latency.
  Tech Stack: AWS S3, Snowflake, DBT

Deesha:
- Leveraged Apache Spark in Databricks for efficient extraction and processing of data from the Data Lake.
- Implemented Spark transformations for data cleansing, filtering, aggregation, and enrichment.
- Defined and enforced schema consistency for transformed data, ensuring data integrity within the Data Lake Gold Layer.
- Orchestrated the integration between Databricks and Azure SQL, orchestrating data extraction, transformation, and loading (ETL) processes.
- Utilized Azure SQL Database as the target destination for processed data, ensuring seamless integration with existing SQL-based systems.
- Contributed to the development of Power BI dashboards by providing high-quality, transformed data from Azure

SQL.

- Collaborated with stakeholders to design and implement interactive visualizations and reports in Power BI, facilitating data-driven decision-making.
  Tech Stack: Azure Databricks, Azure Data Factory, Azure SQL, Power BI

Republic Services:

- Develop and deploy Informatica IICS pipelines for both incremental and full loads to ingest data from source systems into the Snowflake staging schema.
- Manage deployment of table DDLs and IICS job exports to STG and QA environments via ServiceNow tickets.
- Design DBT models for full and incremental loads, incorporating column naming conventions, deduplication, and data transformation rules.
- Implement DBT test cases for not null and uniqueness validations in YML files and create GitHub pull requests for code integration across branches.
- Collaborate with QA to address defects, ensuring high data quality and compliance with project standard
  Tech Stack: SSMS, Azure SQL, Informatica, DBT, Snowflake, GitHub

EDUCATION

Kamaraj College of Engineering & Technology
B.E: Electronics & Communication Engineering, 8.0

SKILLS SUMMARY

Programming Languages: C, Python & SQL

Databases: Azure SQL, PostgreSQL, MSSQL.

ETL/ELT Tools: Azure Data Factory, Informatica, DBT

Data Warehousing Tools: Snowflake, Azure Databricks

Cloud Computing: Microsoft Azure, AWS

Data Analytics Tools: Power BI Desktop, Power BI Services, ThoughtSpot

Data Storage Tools: Azure BLOB, Azure Data Lake, AWS S3

Source Control: GitHub

CERTIFIATIONS

- Snowflake Snow Pro Core Certification   - View Credentials
- DBT Fundamentals Certification   - View Credentials
- Databricks Lakehouse Fundamentals Certification   - View Credentials

PERSONAL PROJECTS

- Developed a script for scraping the Spotify data using Python, showcasing proficiency in web scraping and data extraction techniques.

  Gith Hub Link- Link

- YouTube Data Analysis Project: Developed a YouTube data analysis project using Python, extracting video data using the Google Developer API, transforming it, and loading it into Snowflake. Visualized insights using Power BI.

  Gith Hub Link- [Link](#)

- ETL Testing Tool: Developed a Streamlit-based ETL Testing Tool using Python to validate data counts, columns, data types, and constraints from source to destination.

PUBLICATIONS

- Published an article on medium, **"Streamlining Data Processing with AWS, Snowflake and DBT"**, offering insights into ELT methodologies, showcasing expertise in cloud computing, data warehousing, and transformation tools.

  View Article – [link](#)

- Published an article on medium, **"Unlocking Data Potential: Leveraging DBT on Snowflake with Docker for Dynamic Transformation Pipelines,"** demonstrating proficiency in Docker container deployment for dynamic data transformation pipelines using DBT on Snowflake,

  View Article - [link](#)