

Srinivas N

Data Engineer

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Profile

Highly motivated Data Engineer with expertise in data processing, analysis, and cloud computing (AWS), specializing in Snowflake for efficient data warehousing and Apache Airflow for orchestrating ETL workflows. Proven track record of delivering high-quality projects in the hospitality domain, leveraging cutting-edge technologies to drive continuous improvement. Seeking to contribute my skills and knowledge to an esteemed organization for mutual growth and development.

Work Experience

LTIMindtree

Data Engineer

Bengaluru, India

2022/10–Present

- Designed and implemented end-to-end data pipelines using Apache Airflow and NiFi, optimizing data movement from source S3 to Snowflake for real-time and batch data ingestion.
- Developed custom Airflow DAGs to automate data orchestration and workflow scheduling, ensuring high data quality and reliability across the pipeline.
- Configured NiFi workflows to handle data extraction, transformation, and integration from APIs and external sources into Snowflake, improving data processing efficiency.
- Conducted tokenization for PII data and created final views with SCD type-2 versioning, enhancing data security and compliance.
- Developed stored procedures and SnowSQL scripts for SCD1 and SCD2 strategies, effectively managing historical data in a data warehouse.
- Enhanced data accessibility for analysis and visualization teams in Snowflake, reducing operational costs through optimized data storage and retrieval.
- Integrated data from multiple sources into Snowflake with automated monitoring and logging in Airflow, facilitating troubleshooting and error resolution.
- Proficient in Big Data technologies, including HDFS and the Hadoop ecosystem (Hive, HBase, Spark).

Projects

Data Ingestion Project:

- Designed a scalable ETL pipeline using **Apache Airflow** to process batch data from **AWS S3** to **Snowflake**.
- Implemented **parallel processing, batching, and partitioning**, reducing data processing time by **40%**.
- Developed an **Airflow DAG** with schema validation, data transformation, and **SCD Type-2 versioning**.
- Enhanced API-based workflows using **detailed logging, automated retries, and validation checks**, cutting failure rates by **50%**.
- Built a reusable framework for structured and unstructured data extraction, adopted across multiple projects.
- Orchestrated **Apache NiFi** workflows to format, route, and transfer data to APIs and Snowflake.
- Acted as **Scrum Coordinator** in the absence of Scrum Master, ensuring smooth execution and timely updates.

Real-Time AQI Data Pipeline:

- Developed a **real-time API ingestion pipeline** using **Snowflake Tasks, Streams, and Stages**.
- Optimized data flattening and transformation of **JSON data** for analytical usability.
- Automated workflows leveraging **Snowpark, GitHub Actions**, and dynamic tables.
- Integrated third-party **marketplace data** into Snowflake for real-time analytics and reporting.

Skills

- **Data Warehousing:** Snowflake (Data Warehouse, Snowpipe, Tasks, Stage, Cloning, Views, Stored Procedures, Streams), MySQL, Hive
- **ETL Tools:** Apache NiFi (Extract, Transform, Load), Apache Airflow
- **Cloud Technologies:** AWS (S3, EC2, Athena, Glue)
- **Big Data Processing:** PySpark, Spark SQL, Delta Lake
- **Programming Languages:** SQL, Python, PySpark
- **Generative AI:** Large Language Models (LLMs), Prompting
- **Version Control:** GitHub
- **Project Management:** Jira

Certifications

- **SnowPro Core Certified:** Proficient in Snowflake architecture, data loading and unloading strategies, performance optimization, and security best practices.
- **AWS Partner: Accreditation (Technical):** Demonstrated expertise in AWS cloud solutions and technical implementation.
- **AWS Cloud Practitioner Essentials:** Acquired fundamental knowledge of AWS cloud infrastructure, security, and best practices.

Education

Visvesvaraya Technological University (VTU)

Bachelor of Engineering - Information Science and Engineering (BE - ISE)

- **Grade:** 7.63 CGPA

Bengaluru, India

2018/08–2022/08

Languages

- English
- Kannada
- Telugu