T Nishchala Chakravarthi | Software Engineer

Skilled in designing, building, testing, and maintaining data pipelines to efficiently extract, load, and transform data for analytics and business intelligence, with over 3 years of experience in the field.

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**OBJECTIVE:**

Skilled in AWS cloud services, ETL processing, and data modeling, with experience designing data pipelines using Airflow, EMR, Lambda, S3, and Snowflake. Proficient in Snowflake for data storage and querying, handling semi-structured data (JSON), and applying dimensional modeling techniques like SCD. Focused on leveraging technical expertise to deliver data-driven insights.

**WORK EXPERIENCE:**

**Analyst**

Capgemini

10/2021 – Present

(Hyderabad)

Experience Summary:

* Built and monitored scalable data pipelines using Apache Airflow, Snowflake, Spark, and AWS services for large-scale data processing and analysis
* Designed end-to-end data pipelines on AWS utilizing EMR and Lambda, reducing data processing time and improving efficiency.
* Designed and implemented event-driven architectures using AWS Event Bridge, SQS, and Snowflake Streams to automate data ingestion and enable real-time, low-latency data

processing workflows, ensuring enhanced availability and reliability.

* Worked extensively with Snowflake features, including Streams, Tasks, Snow pipe, Stored Procedures, UDFs.
* Worked on complex SQL queries and stored procedures involving joins, aggregations, CTEs and window functions.
* Led data migration projects, ensuring seamless transitions.
* Developed functionality to flatten JSON data into relational tables, enabling efficient analysis and storage of semi-structured data.
* Designed and optimized scalable ETL pipelines and data ingestion workflows using Databricks and Apache Spark, ensuring high-quality data processing and performance.
* Automated job orchestration and troubleshooting, reducing cluster processing time by 20%.
* Collaborated with Data Scientists and Analysts to understand data requirements and translate them into efficient SQL queries and Python scripts, driving data insights and business value.

**SKILLS:**

DataBase: MySQL

Data Warehouse: Snowflake

Programming: SQL, Python

Integrated Development Environment: PyCharm

Amazon Web Sevices: S3,lamda,Event Bridge,EMR,SQS

Office tools: 0365 tools

ITSM: ServiceNOW

**PROJECTS:**

**KBSE Analytics - (01/2022 -11/2022)**

Description:

Developed a real-time analytics solution for Volvo's Knowledge-Based Search Engine (KBSE), enabling immediate access to search metadata, which is collected hourly, for

enhanced customer insights and decision-making.

Role:

Data Engineer

Responsibilities:

● Developing and optimizing ETL/ELT pipelines to support data processing and transformation.

● Writing and maintaining complex stored procedures, functions, and queries.

● Performing data transformations to meet business requirements and enhance insights.

● Building efficient, scalable, and robust data pipeline solutions with a focus on quality and performance.

Technologies:

● Snowflake, SQL, Python, Lambda, S3, Event Bridge,

**Global Data Platform - (12/2022 - Present)**

Description:

Global Data Platform is a Cloud Data Lake for Airlines used to store data from various business endpoints. The data from here is loaded into Data Warehouse and is used to

drive business decisions using analytics.

Role:

Data Engineer

Responsibilities:

● Developing and optimizing ETL/ELT pipelines to support data processing and transformation needs.

● Migrating data from legacy systems to modern platforms, ensuring seamless transitions.

● Writing and maintaining stored procedures, functions, and queries.

● Collaborating with Data Analysts to gather and translate data requirements into actionable solutions.

● Performing complex data transformations to meet business requirements and enhance insights.

Technologies:

● Snowflake, SQL, Python, Apache Airflow, PySpark, AWS Lambda, Glue, S3, Event Bridge, EMR, CloudWatch, SQS, Databricks

**EDUCATION:**

BE (Electrical and Electronic) - Cambridge Institute of Technology

Bengaluru