Varun Singh

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PROFESSIONAL SUMMARY

Data Engineer with 2+ years of experience building scalable ETL/ELT pipelines using Python, SQL, Spark, and Snowflake. Experienced in Data Vault 2.0 architecture, CI/CD deployments, and large-scale insurance data transformation (300M+ records). Strong focus on performance optimization and production-grade data systems.

TECHNICAL SKILLS

Languages: Python, SQL
Big Data and Streaming: Apache Spark, Kafka
Data Platforms: Snowflake, Databricks
Orchestration: Apache Airflow
Databases: PostgreSQL, MySQL
DevOps and Tools: Docker, Git, Jenkins
Visualization: Streamlit, Plotly

WORK EXPERIENCE

Data Engineer   **Aug 2025 – Present**
EXL Service – Insurance Client Project   *Noida, India*
- Implemented Snowflake-based Data Vault 2.0 pipelines translating STTM business logic into optimized SQL transformations.
- Configured metadata-driven batch jobs (Raw Vault → Business Vault → Data Mart) supporting Policy, Coverage, and Transaction domains.
- Processed 300M+ historical transactional records across multi-country insurance datasets.
- Managed CI/CD deployments via GitHub and Jenkins across DEV, QA, UAT, and PROD environments.

Data Engineer   **Dec 2024 – Aug 2025**
NavAdr Technologies Solution   *Pune, India*
- Built scalable ETL/ELT pipelines using Python, Spark, AWS Glue, and Snowflake for structured and semi-structured datasets.
- Orchestrated workflows using Apache Airflow and optimized Snowflake performance via clustering and warehouse tuning.

Data Engineer   **Jul 2024 – Dec 2024**
SDNTECH Solutions   *Noida, India*
- Developed Python and SQL-based ETL pipelines ingesting data into Snowflake data warehouse.
- Optimized Snowflake queries using micro-partitioning and clustering strategies.

SELECTED PROJECT

- **Enterprise Insurance Data Platform – Data Vault 2.0 Implementation (Snowflake)**
  Designed and implemented large-scale data transformation pipelines for a multi-country insurance client using Snowflake and Data Vault 2.0 architecture.
  - Translated STTM-based business transformation logic into optimized Snowflake SQL scripts supporting Policy, Coverage, and Transaction subject areas.
  - Built and deployed data loading workflows from Data Lake → Raw Vault → Business Vault using structured job configuration framework.
  - Configured batch jobs (e.g., ABCXXYPPQ for Raw Vault, ABCXXZPPQ for Business Vault) deployed via GitHub and Jenkins CI/CD pipelines.
  - Processed 300M+ transactional records (2020–2026 dataset) across multiple countries in high-volume SAT tables.
  - Performed query optimization and performance tuning for large-scale Data Vault structures (HUB, LINK, SAT tables).
  - Monitored and managed job execution, analyzed failure logs, and ensured data consistency across DEV, QA, UAT, and PROD environments.

CERTIFICATIONS

- **Databricks Certified Data Engineer Associate**
- **AWS Certified Solutions Architect – Associate**

EDUCATION

B.Tech in Computer Science and Engineering   **2021 – 2024**
SRMCEM   *Lucknow, India*
Diploma in Computer Science and Engineering   **2017 – 2020**
Govt. Polytechnic Bijnor   *Bijnor, India*

ACHIEVEMENTS

- Employee of the Month – March 2025
- Solved 350+ algorithmic problems on LeetCode