

SHWETA RANI

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Professional Summary

Data Engineer with **4+ years** of experience building scalable ETL/ELT pipelines, real-time streaming solutions, and cloud-based data architectures. Expertise in **AWS, Snowflake, Databricks, Apache NiFi**, and **Python**. Published researcher (Springer Singapore) and technical content creator building the Data Engineering community. Proven track record of **reducing data latency by 60%**, **improving query performance by 40%**, and **processing 10M+ records daily**.

Technical Skills

Data Engineering: ETL/ELT Pipelines, Data Warehousing, Data Modeling, CDC, Real-time Streaming, SnowPipe
Cloud & Big Data: AWS (S3, Lambda, EC2, Glue, Redshift), Azure (Data Factory, Synapse), Snowflake, Databricks
Processing: PySpark, Apache Spark, Apache NiFi, Apache Airflow, Kafka
Programming: Python, SQL, PySpark, Bash/Shell Scripting
Databases: Snowflake, PostgreSQL, MySQL, MongoDB, Redshift, Delta Lake
Tools: Docker, Git, Linux, Power BI, Tableau, Jupyter, Jira

Professional Experience

- WNS** **Jul 2024 – Present**
Data Engineer *Gurugram, India*
- Design and implement **end-to-end ETL/ELT pipelines** using Python, SQL, and AWS to process **10M+ records daily**
 - Build **real-time data streaming** architectures using Apache NiFi and Snowflake, **reducing data latency by 60%**
 - Develop automated **data quality frameworks** with validation checks ensuring **99% data accuracy** across pipelines
 - Optimize SQL queries and data workflows resulting in **40% improvement** in performance and cost reduction
 - Collaborate with cross-functional teams to translate business requirements into scalable data solutions
- Airtrek** **Dec 2023 – Jan 2025**
Data Engineer *Noida, India*
- Built scalable data pipelines using Python, Apache NiFi, and **AWS (EC2, S3, Lambda)** for enterprise data integration
 - Implemented **CDC using SnowPipe** and Snowflake streams/tasks for near real-time incremental data processing
 - Designed data models and optimized Snowflake warehouse configurations for improved query performance
 - Containerized data applications using **Docker**, reducing deployment time by **50%** across environments
- Astrea IT Services** **Jul 2020 – Feb 2022**
Software Developer *Noida, India*
- Developed Python and SQL-based applications; optimized database schemas improving query performance by **35%**
 - Built automated data processing scripts and REST APIs for internal analytics and reporting systems
 - Collaborated in agile environment, participating in code reviews and ensuring high-quality deliverables

Projects

- Real-time Data Streaming Pipeline** | *Apache NiFi, AWS, Snowflake, SnowPipe, Docker* | [GitHub](#) | [Demo](#)
- Architected end-to-end streaming pipeline: **EC2 → Apache NiFi → S3 → SnowPipe → Snowflake**
 - Implemented **Change Data Capture (CDC)** using Snowflake streams and tasks for incremental data processing
 - Containerized entire solution using Docker Compose for consistent deployment and scalability
- Spotify ETL Pipeline** | *AWS Lambda, S3, CloudWatch, Snowflake, Python* | [GitHub](#) | [Demo](#)
- Built **serverless ETL pipeline** using AWS Lambda to extract, transform, and load Spotify API data into Snowflake
 - Automated pipeline execution with CloudWatch triggers; implemented data validation and error handling
 - Designed **star schema data model** in Snowflake for efficient analytical queries
- Twitter Sentiment Analysis** | *Python, Flask, NLP, TextBlob* | [GitHub](#)
- Developed real-time sentiment analysis application processing **100+ tweets per query** using NLP techniques
 - Built Flask web interface with data visualization for sentiment distribution and trend analysis

Education

Gautam Buddha University **Aug 2015 – Dec 2020**
Integrated B.Tech (Computer Science) + M.Tech (AI & Robotics) – CGPA: 8.22 / 8.36 *Greater Noida, India*

Certifications & Publications

- Machine Learning** – Stanford University (Coursera) by Andrew Ng
- Research Publication:** Data Imputation in WSN using Deep Learning – Springer Singapore (ICDAM 2021)

Additional

- Community:** Building Data Engineering community on [YouTube](#) – Technical tutorials on AWS, Snowflake, Apache NiFi
- Languages:** English (Professional Proficiency), Hindi (Native)