

# 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 – Jun 2024**  
*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)