

SHWETA RANI

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Professional Summary

Data Engineer with **2+ years** of experience building scalable ETL/ELT pipelines, real-time streaming solutions, and cloud-based data architectures. Expertise in **Azure, Python, SQL, Snowflake, Databricks** and **Apache NiFi**. Published researcher (Springer Singapore) and technical content creator building the Data Engineering community.

Technical Skills

Data Engineering: ETL/ELT Pipelines, Data Warehousing, Data Modeling, CDC, Real-time Streaming, SnowPipe
Cloud & Big Data: AWS (S3, Lambda, EC2), Azure (Data Factory, Functions), Snowflake, Databricks
Processing: Apache Spark, Apache NiFi, Apache Airflow
Programming: Python, SQL, PySpark
Databases: Snowflake, MySQL, Delta Lake
Tools & AI: Docker, Git, Linux, Jupyter, Jira, Generative AI, LLMs

Professional Experience

WNS **Jul 2024 – Present**
Gurugram, India
Data Engineer

- Design and implement **end-to-end ETL/ELT pipelines** using Python, SQL, and AWS to process large-scale data volumes
- Build **real-time data streaming** architectures using Apache NiFi and Snowflake with significantly reduced latency
- Develop automated **data quality frameworks** with validation checks ensuring high data accuracy across pipelines
- Optimize SQL queries and data workflows resulting in enhanced performance and cost efficiency
- Collaborate with cross-functional teams to translate business requirements into scalable data solutions

Airtrik **Dec 2023 – Jan 2025**
Noida, India
Data Engineer

- 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**, significantly reducing deployment time across environments

Astrea IT Services **Jul 2020 – Feb 2022**
Noida, India
Software Developer

- Developed **Salesforce solutions** including custom triggers, buttons, and Visualforce pages to enhance business processes
- Designed and implemented **Apex code** and **SOQL queries** for complex business logic and data manipulations
- Created **custom workflows** and **process automations** to streamline organizational operations
- Participated in code reviews and requirements gathering sessions ensuring high-quality deliverables

Projects

End-to-End GenAI Data Agent | *Databricks, Llama 3.3, Streamlit, Spark SQL, Python* | [GitHub](#)

- Built a **powerful GenAI Data Agent** leveraging Llama 3.3 model on Databricks Data Intelligence Platform
- Designed **Medallion Architecture** (Bronze/Silver/Gold) for robust data processing and transformation
- Implemented **custom AI Agent** hosted in Streamlit App that translates natural language questions into optimized Spark SQL queries
- Enabled business users to query massive e-commerce datasets without requiring SQL knowledge

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

Automated Daily Content Ingestion Pipeline | *Python, Docker, GitHub, Azure ADF, Azure App Service* | [GitHub](#)

- Architected end-to-end **automated content ingestion pipeline** using **Azure Data Factory** to orchestrate daily web scraping jobs with **Container Registry** integration and automated deployment via GitHub
- Built **microservices architecture** with **Scraper** (Python web scraping) and **Viewer App** (Azure App Service) displaying articles by date; implemented CI/CD workflows enabling automated image pulls from registry

Education

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

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](#)
- Languages:** English (Professional Proficiency), Hindi (Native)