

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:	Azure (Data Factory, Functions), Snowflake, Databricks, AWS (S3, Lambda, EC2)
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 <i>Data Engineer</i>	Jul 2024 – Present Gurugram, India
• Design and implement end-to-end ETL/ELT pipelines using Python, SQL, and Azure 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 <i>Data Engineer</i>	Dec 2023 – Jan 2025 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 , significantly reducing deployment time across environments	
Astrea IT Services <i>Software Developer</i>	Jul 2020 – Feb 2022 Noida, India
• Developed Salesforce solutions including custom triggers, Visualforce pages, Apex code , and SOQL queries	
• Created custom workflows and process automations ; participated in code reviews and requirements gathering	

Projects

End-to-End GenAI Data Agent <i>Databricks, Llama 3.3, Streamlit, Spark SQL, Python</i> GitHub	
• Built GenAI Data Agent leveraging Llama 3.3 on Databricks with Medallion Architecture (Bronze/Silver/Gold)	
• Implemented custom AI Agent in Streamlit that translates natural language to optimized Spark SQL queries	
• Enabled business users to query massive e-commerce datasets without requiring SQL knowledge	
Real-time Data Streaming Pipeline <i>Apache NiFi, AWS, Snowflake, SnowPipe, Docker</i> 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 <i>AWS Lambda, S3, CloudWatch, Snowflake, Python</i> 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 <i>Python, Docker, GitHub, Azure ADF, Azure App Service</i> GitHub	
• Architected automated content ingestion pipeline using Azure Data Factory for daily web scraping with Container Registry integration and GitHub-based automated deployment	
• Built microservices architecture : Scraper service + Viewer App (Azure App Service) with CI/CD workflows	

Education

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

- **Research Publication:** [Data Imputation in WSN using Deep Learning](#) – Springer Singapore (ICDAM 2021)
- **Community:** Building Data Engineering community on [YouTube](#)