**Rahul Chavan**

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# Data Engineer

## Professional Summary

Data Engineer with 1.6+ years of experience in designing, building, and optimizing data pipelines and ETL/ELT workflows in cloud environments (AWS, Azure, Databricks, Snowflake). Proficient in Python, SQL, and PySpark for data processing, with hands-on experience in SAS to PySpark migrations, Generative AI applications, and real-time data ingestion. Strong knowledge in cloud-native tools, big data frameworks, and AI-driven automation.

## Technical Skills

• Languages: Python, SQL, PySpark

• Big Data & Processing: Spark, Hadoop, Databricks, Airflow

• Cloud Platforms: AWS (EC2, S3, Lambda, Glue, SageMaker), Azure (Data Factory, Synapse, DevOps), GCP (Vertex AI)

• Data Engineering: ETL, ELT, Data Warehousing, Data Lake, Data Modeling, Data Integration, Data Governance

• AI & ML: Open-Source LLM Fine-tuning, RAG Pipelines, Generative AI, Chatbots

• Tools & Visualization: Snowflake, Power BI, QuickSight, Looker

## Professional Experience

**LTIMindtree – Data Engineer**

Sep 2023 – Present

• Led the migration of SAS-based workflows to PySpark using custom-built migration tools in Databricks.

• Developed scalable ETL pipelines using Python, SQL, and Databricks Notebooks.

• Contributed to Scintilla modules like Meta Migrator, Data Migrator, Connection & Analyzer.

• Deployed and fine-tuned LLMs using SageMaker and GCP Vertex AI.

• Built RAG pipelines for intelligent AI-driven data retrieval and decision automation.

## Projects

Pik-Pok – Social Video Sharing Platform

• Built using AWS EC2, S3, Lambda, and CloudFront for serverless content delivery.

• Implemented backend in WordPress, ensuring secure media management.

[MediBot – AI-Powered Healthcare Assistant](https://huggingface.co/spaces/ranshhhhh/MediBot-AI-Health-Assistant)

• Developed using Streamlit and Google Gemini API for patient interaction automation.

• Used fine-tuned LLMs to generate custom responses for hospital-related queries.

[Natural Language to SQL Generator](https://huggingface.co/spaces/ranshhhhh/SmartQuery-AI) (Text-to-SQL Web App)

• Developed a Streamlit-based Text-to-SQL generator that translates natural language queries into optimized SQL statements using AI APIs (Gemini, TogetherAI, AgenticAI).

• Enabled users to upload XLSX datasets, dynamically extract and parse column metadata, and generate context-aware SQL queries for analysis.

• Integrated multiple LLM APIs to offer flexible backends for query generation and performance comparison.

• Built functionality to store query history and allow exporting of generated SQL for future use or auditing.

• Designed an intuitive, responsive interface with error handling and logging to enhance user experience and reliability.

• Optimized prompts and responses to ensure accurate query formation aligned with dataset schema, improving SQL generation quality.

• Streamlined the entire process to support data exploration by non-technical users with zero-SQL knowledge.

## Certifications

• [AWS Data Engineer Associate](https://www.credly.com/badges/14bac4e1-139f-4131-87ca-2fe6183d32bb/) (Valid: 08/2024 – 08/2027)

• [Snowflake SnowPro Core](https://achieve.snowflake.com/9c0e1399-23cd-4e7d-b7be-a017c6eff214) (Valid: 05/2024 – 05/2026)

• [Databricks Data Engineer Associate](https://credentials.databricks.com/7d0d32ca-f343-4962-93ed-28ed1c2e32f4) (Valid: 09/2024 – 12/2026)

• [Oracle Generative AI Certified](https://catalog-education.oracle.com/ords/certview/sharebadge?id=A2BA66B624E23B6512E050511710354BC5E0276C2E7345FCE19F59E54997116A) (Valid: 06/2024 – 06/2026)

• [Microsoft Fabric Analytics Associate](https://learn.microsoft.com/en-us/users/rahulchavan-2141/credentials/b9f8e1473ba5139d) (Valid: 2024 – 2025)

## Education

**Bachelor of Technology in Civil Engineering**

SKN Sinhgad College of Engineering, Pandharpur | 07/2018 – 08/2022 | CGPA: 9.8 (First Class with Distinction)

## Portfolio & Links

• GitHub: <https://github.com/rahul21chavan>

• HuggingFace: <https://huggingface.co/ranshhhhh>

Your’s Sincerely,

Rahul R. Chavan