



BHANU TEJA KURAKULA

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SUMMARY

Data Engineer with **2.5+ YoE** working with **AWS, Databricks, Snowflake, Airflow, SQL, Python** and **Tableau**. Worked across Banking, Finance, Healthcare, AgTech and EduTech industries. Expertise in designing robust data models, developing scalable **ETL/ ELT** data pipelines delivering high-quality data through rigorous quality checks. Experience collaborating with technical and non-technical stakeholders, driving impact, clarity and actionable insights.

WORK EXPERIENCE

Data Engineer - AGCO Corporation

June 2024 - August 2025

- Developed **data models**, designed a **Tableau** dashboard & built a **SQL** based **ELT** pipeline supporting **40** stakeholders to track product metrics and other operational KPIs, enabling better decision making.
- Engineered **10 ETL** data pipelines on **AWS**, standardized large volumes of sales data across EU with schema enforcement & rigorous data quality checks, used CloudFormation to automate deployment.
- Led migration of **10** legacy **Hadoop** batch data pipelines to **AWS**, collaborated with stakeholders to set data standards, documented, trained and supported the end users from business in adopting the migrated workflows.

Data Analyst - Polygon Health Analytics

May 2025 - August 2025

- Developed a user-friendly **FinOps dashboard** to monitor token utilization, cost per API call, and usage trends, with a drill-down capability by model, user and service. Designed the **data model** supporting this dashboard.
- Integrated LLM-based classification and auto-tagging features into an existing Java based vaccine-newsletter using OpenAI and Gemini APIs and rolled it out after rigorous testing to improve tag quality.
- Implemented near-duplicate detection with OpenAI **embeddings**, performed cosine similarity to reduce redundancy, conducted **code-reviews**, validated with backfill runs before a staged rollout to production.

Data Engineer - Cognizant

September 2022 - July 2023

- Ensured **Snowflake** warehouse reliability by monitoring **200+ key metrics** and **50+ jobs**, actively troubleshooting job failures and ensured timely scorecard refresh ahead of business use, meeting SLAs.
- Identified recurring bottlenecks, collaborated with stakeholders to **optimize SQL queries**, resulting in a **20 percent** reduction in query execution time, reducing delay by **20 minutes** on a year over year basis.
- Developed a regression based machine learning POC with an aim to offer predictive analytics to business users, performed EDA on a complex internal dataset, performed **A/B testing** for deploying the best model.

Data Engineer Intern - Cognizant

March 2022 - August 2022

- Built an ETL pipeline on **Databricks** to retrieve and process airline safety datasets, utilizing **Delta Lake** for scalable data storage and Spark SQL/PySpark for efficient data transformation and processing.
- Automated pipeline orchestration through **Databricks Jobs**, while delivering actionable insights through interactive data visualizations, comprehensive error handling, and data validation mechanisms.

Software Engineer Intern - PhysioAI

September 2021 - Feb 2022

- Developed a React frontend with Django backend for a yoga assistant using pose-specific MLP classifiers, achieved accurate detection of **30** yoga poses at **30 FPS** with less than **40 ms** end-to-end latency.
- Designed and implemented a **star schema-based dimensional model** to track **40 session-level KPIs**.

EDUCATION

University of Illinois, Urbana-Champaign (UIUC)

August 2023 - May 2025

Master of Science - Information Management

Relevant Coursework : Data Statistics, Data Modeling & Database Design, Data Warehouse & Business Intelligence

Amrita University

July 2018 - June 2022

Bachelor of Technology - Electronics and Communication Engineering

SKILLS

Programming Languages : Python, SQL, Pyspark, JavaScript

Platforms & Frameworks : AWS, Snowflake, GCP, Kafka, Airflow, Flask, Tensorflow

Tools : Tableau, PostgreSQL, Docker, Github, Alteryx

Miscellaneous : Data Modeling, OOPs, Data Structures & Algorithms, REST APIs

Certifications : [Databricks Certified Data Engineer](#) | [AWS Solutions Architect Associate](#) | [AWS Machine Learning Specialty](#)