BHANU TEJA KURAKULA

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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.
- Implemented a batch data pipeline on databricks using **Delta Live Tables (DLT)** to process and transform a 2GB dataset, and created interactive dashboards using **Databricks** SQL for data visualization and reporting.
- **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 **20** legacy alteryx workflows to Tableau Prep, cutting licensing costs by **20000USD** annually, documented, trained and supported the end users from the business team 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. Also, created the **data model** supporting this dashboard.
- Integrated LLM-based classification and auto-tagging services into an existing Java (Spring Boot) vaccine-newsletter application using OpenAI & Gemini APIs, rolled out after rigorous testing.
- Implemented near-duplicate detection with OpenAI **embeddings,** performed cosine similarity to reduce redundancy, conducted **code-reviews**, validated with backfill runs before deploying to production.

Data Engineer - Cognizant
September 2022 - July 2023

Client : CapitalOne

- Ensured **Snowflake** warehouse reliability by monitoring **200 key metrics** and **50+ jobs**, actively troubleshooting job failures and ensured timely report generation ahead of business use, meeting SLAs.
- Developed a **DBT** POC to investigate potential replacement for existing Airflow tasks and worked on a Regression based Machine Learning POC with a potential to offer predictive analytics to the business users.
- 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.

Software Engineer Intern - PhysioAI
September 2021 - Feb 2022

- Developed a full-stack ReactJS + Django yoga assistant using MediaPipe and pose-specific MLP classifiers, enabling 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** (pose hold duration, average confidence, recovery count), enabling detailed progress analytics across users.

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, Kafka, Airflow
Tools	: Tableau, PostgreSQL, Docker, Github, Alteryx, Confluence
Miscellaneous	: Data Modeling, OOPs & Design Patterns, Data Structures & Algorithms, REST APIs
Certifications	: AWS Solutions Architect Associate, AWS Machine Learning Specialty

PROJECTS

Kafka-Based Real-Time Data Processing Pipeline | Confluent Kafka, docker
Developed a Kafka-based pipeline, processed data, ensured privacy compliance, and provided real-time insights.

Coupon Accepting MLOps Pipeline | MLFlow, EC2, S3, RDS, Terraform, Docker, Prefect, Github Actions
Built a MLOps pipeline, enabling experiment tracking, orchestration and automated deployment using CI/CD.