BHANU TEJA KURAKULA

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EDUCATION

University of Illinois at Urbana-Champaign (UIUC)   August 2023 – May 2025
Master of Science in Information Management, (Data Science and Analytics)   (GPA: 3.96/4)
Relevant Courses: Data Modeling, Database Design & Prototyping, Data Warehouse and BI

Amrita University   July 2018 – June 2022
Bachelor of Technology in Electronics and Communication Engineering   (GPA: 3.34/4)

TECHNICAL SKILLS & CERTIFICATIONS

Programming Languages	: Python, SQL, Pyspark, R
Platforms & Frameworks	: AWS, Databricks, Alteryx, Snowflake, Confluent Kafka, SQL Server, Office, Azure
Tools	: Docker, Tableau, Airflow, Terraform, Git, Postgres, Grafana, PowerBI
Certifications	: AWS Solution Architect Associate, Data Engineering with Databricks - Associate

WORK EXPERIENCE - (26+ MONTHS)

AGCO Corporation   June 2024 – Present
Data Engineering Intern (8+ months)

- **Engineered over 10+ complex ETL pipelines** using various **AWS** services, ensuring seamless data integration and conforming, resulting in standardized tractor sales data across Europe.
- Translated **Alteryx** workflows into **PySpark** jobs, improving efficiency by implementing comprehensive tests to maintain data quality at all stages, also **saving $20K in licensing costs**, making it cost effective.
- Implemented infrastructure provisioning by adopting **Infrastructure as Code (IaC)** approach, enhancing scalability and reducing deployment time by **30%** while minimizing manual setup errors.
- Collaborated with stakeholders to build logical data map for migration and documented user manuals to ensure smooth handover. In addition, built **15+ tableau prep** flows and **dashboard** as part of decomission efforts.

Cognizant Technology Solutions   September 2022 – July 2023
Data Engineer (11 Months)

- Enhanced **production data warehouse** reliability by leveraging **Snowflake**, **DBT**, **Airflow** and **Grafana** to monitor and troubleshoot issues, overseeing **200+** metric dependencies and guaranteeing continuous data flow.
- Improved performance by **optimizing SQL queries**, resulting in reduced query execution time. Reduced **tableau** scorecard delay by **20%** by collaborating with downstream and upstream teams.
- Spearheaded a proof of concept (POC) for detecting **fradulent insurance claims**, showcasing innovation for future production integration. Demonstrated potential for improving data quality.

Data Engineer Intern (5 Months)   March 2022 – July 2022

- Designed and implemented a scalable, fault-tolerant data pipeline for datasets with over **4M+** records, leveraging **Lambda** and **Glue** for ETL transformations, **Redshift** as the Data Warehouse, and S3 as the data source.
- Implemented a data pipeline using **Delta Live Tables (DLT)** to process and transform a **2GB** dataset, and created interactive dashboards using Databricks SQL Warehouse for data visualization and reporting.

PhysioAI   January 2022 – February 2022
Data Science and Analytics Intern (2 Months)

- Developed a real-time yoga assistant using **Azure, TensorFlow**, and **MediaPipe** to accurately detect and classify over **30+** yoga poses, integrating a voice assistant feature for real-time guidance and pose correction.
- Captured user progress through **40+** metrics and effectively managed user data on **Postgres**, used **Tableau** to create a progress tracker. Presented the POC during the monthly incubator meet to secure investors interest.

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.

Credit Card Rewards Pipeline | Terraform, Docker, ECR, Pyspark, Redshift, Glue, S3, Lambda, Looker Studio
Developed a serverless pipeline, transformed data, optimized schema, orchestrated workflow & visualized insights.

Coupon Accepting Prediction Pipeline | MLFlow, EC2, S3, RDS, Terraform, Docker, Prefect, Github Actions
Built an MLOps pipeline, enabling experiment tracking, workflow orchestration, and automated deployment.