

# BHANU TEJA KURAKULA

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## EDUCATION

### University of Illinois at Urbana-Champaign

August 2023 – May 2025

Master of Science in Information Management, (Data Science and Analytics)

(GPA: 3.94/4)

*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, Snowflake, Databricks, Azure, Airflow, Tensorflow, SQL Server, GCP

**Tools** : DBT, Terraform, Tableau, Git, Grafana, Postgres, MongoDB, Docker, Alteryx

**Certifications** : [AWS Solution Architect Associate](#), [AWS Machine Learning Specialty](#)

## WORK EXPERIENCE

### AGCO Corporation

June 2024 – Present

#### Data Engineering Intern

- Engineered 10+ complex ETL pipelines using AWS Glue, S3, and RDS, ensuring seamless data integration and conforming, resulting in standardized tractor sales data across multiple regions in Europe.
- Utilized PySpark to improve data processing efficiency by breaking down Alteryx workflows into multiple jobs, implementing comprehensive unit tests to ensure functionality and uphold data quality across all stages.
- Improved infrastructure provisioning by adopting a CI/CD approach with CloudFormation and YAML, enhancing scalability, automation, and reducing deployment time by 30% while minimizing manual setup errors.
- Developed and orchestrated workflows using Glue Workflow for monthly data processing and reporting, utilizing SNS for automated notifications and CloudWatch for monitoring, reducing manual intervention.
- Conducted data discovery and created data lineage maps to facilitate workflow migration. Collaborated with stakeholders to document data flows and business requirements, ensuring a seamless transition through UAT.

### Cognizant Technology Solutions

#### Data Engineer

September 2022 – July 2023

- 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 and tuning indexes, resulting in 20% reduction in query execution. Reduced tableau scorecard delay by 40% by collaborating with downstream and upstream teams.
- Spearheaded a proof of concept (POC) for detecting fraudulent insurance claims using Machine Learning, showcasing innovation for future production integration. Demonstrated potential for improving data quality.

#### Data Engineer Intern

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.
- Executed complex data processing and analysis tasks in Databricks on datasets exceeding 100GB, leveraging distributed computing and Delta Lake optimizations to enhance performance and efficiency.

### PhysioAI

January 2022 – February 2022

#### Data Science and Analytics Intern

- 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 managed user data on PostgreSQL. Used Tableau to create a progress tracker and presented the POC during the monthly incubator meet.

### Ineuron.ai

September 2020 – January 2021

#### Data Science Intern

- Spearheaded the life cycle of three categories of a warehouse project by scraping over 10K+ images per category using Selenium, annotated images using labelImg, and trained various CNN models to achieve the best results.
- Ensembled and deployed the best performing models to production, enhancing operational efficiency of warehouse.