

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)

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.

PROJECTS

Credit Card Rewards Pipeline | Terraform, Docker, ECR, Pyspark, Redshift, Glue, S3, Lambda, Looker Studio

- Developed a serverless data pipeline on AWS for analyzing credit card rewards using Open Banking API.
- Implemented ETL processes to transform the data, optimizing the schema for analysis and insights generation.
- Orchestrated the workflow using Step functions and used Looker studio to visualize.

Coupon Accepting Prediction Pipeline | MLflow, EC2, S3, RDS, Terraform, Docker, Prefect, Github Actions

- Developed MLOps pipeline using XGBoost for coupon prediction, leveraging AWS and Terraform.
- Implemented MLflow for experiment tracking, Prefect for workflow orchestration, and Docker for containerization.
- Established CI/CD pipeline with GitHub Actions, automating testing and deployment processes.

TECHNICAL SKILLS & CERTIFICATIONS

Programming Languages : Python, SQL, Pyspark, R

Platforms & Frameworks : AWS, Snowflake, Databricks, Azure, Alteryx, Tensorflow, SQL Server, Kubernetes

Tools : Airflow, DBT, Terraform, Tableau, Git, Grafana, Postgres, MongoDB, Docker

Certifications : AWS Solution Architect Associate, AWS Machine Learning Specialty