BHANU TEJA KURAKULA

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EDUCATION

University of Illinois at Urbana-Champaign — August 2023 - May 2025
Master of Science - Information Management (Data Science & Analytics) — (GPA 3.94/4.0)
Relevant Coursework : Data Modeling, Database Design & Prototyping, Data Warehouse and Business Intelligence

Amrita Vishwa Vidyapeetham (Amrita University) — July 2018 - June 2022
Bachelor of Technology - Electronics and Communication Engineering — (GPA 3.35/4.0)

WORK EXPERIENCE

Data Engineering Intern - AGCO Corporation — June 2024 - Present

- Engineered over 10 complex ETL pipelines using AWS Glue, S3, and RDS, ensuring seamless data integration and consistent data conforming, resulting in standardized and reliable 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 efficient monthly data processing and reporting, utilizing SNS for automated notifications and CloudWatch for detailed 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 comprehensive UAT.

Data Engineer - Cognizant — 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 - Cognizant — 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 primary data source.
- Executed complex data processing and analysis tasks in Databricks on datasets exceeding 100GB, leveraging distributed computing and Delta Lake optimizations to significantly enhance performance, scalability, 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 cashback 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

- 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.

SKILLS

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**