

BHANU TEJA KURAKULA

☎ 217-926-2758 | ✉ bhanutk2@illinois.edu | [in linkedin.com/bhanukurakula](https://www.linkedin.com/in/bhanukurakula) | github.com/bhanuteja2001 | 📍 United States

EDUCATION

University of Illinois at Urbana-Champaign (UIUC) Master of Science in Information Management, (Data Science and Analytics) <i>Relevant Courses:</i> Data Modeling, Database Design & Prototyping, Data Warehouse and BI	August 2023 – May 2025 (GPA: 3.96/4)
Amrita University Bachelor of Technology in Electronics and Communication Engineering	July 2018 – June 2022 (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 , AWS Machine Learning Specialty

WORK EXPERIENCE - (26+ MONTHS)

AGCO Corporation Data Engineering Intern (8+ months)	June 2024 – Present
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- **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 decommission efforts.

Cognizant Technology Solutions Data Engineer (11 Months)	September 2022 – July 2023
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- 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 **fraudulent insurance claims**, showcasing innovation for future production integration. Demonstrated potential for improving data quality.

Data Engineer Intern (5 Months)	March 2022 – July 2022
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- 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 Data Science and Analytics Intern (2 Months)	January 2022 – February 2022
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- 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.