BHANU TEJA KURAKULA

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EDUCATION

University of Illinois, Urbana-Champaign (UIUC)   August 2023 - May 2025

Master of Science - Information Management

Relevant Coursework : Data Statistics, Data Modeling, Data Warehouse & BI, Methods of Data Science

Amrita University   July 2018 - June 2022

Bachelor of Technology - Electronics and Communication Engineering

SKILLS

Programming Languages	: Python, SQL, Pyspark, JavaScript
Platforms & Frameworks	: AWS, Apache Airflow, Snowflake, Kafka, Tensorflow, Flask
Tools	: MLflow, Tableau, Docker, PostgreSQL
Miscellaneous	: Data Modeling, Github Actions, OOPs
Certifications	: AWS Solutions Architect Associate, AWS Machine Learning Specialty

WORK EXPERIENCE

Data Engineer Intern - AGCO Corporation   June 2024 - August 2025

- Developed Data Models & engineered a SQL based **ELT** pipeline supporting organization-wide **Tableau** dashboards enabling **40+** stakeholders, track product progress, metrics and other operational KPIs.
- Engineered **10+ ETL** pipelines on AWS to standardize sales data across EU, with error handling to ensure high data quality, used CloudFormation **(IaC)** to automate deployment following best DevOps practices.
- Led migration of **20+** legacy workflows from Alteryx to Tableau Prep, cutting licensing costs by **$20000** annually, optimized S3 storage for catalog integration, with an aim to merge the pipelines with EDH.

Data Analyst Intern - Polygon Health Analytics   May 2025 - August 2025

- Integrated LLM-based classification and auto-tagging into an existing Java based vaccine-newsletter service using **OpenAI** and **Gemini** APIs and rolled it out after rigorous testing to improve tag quality.
- Implemented near-duplicate detection with OpenAI embeddings**,** performed **cosine similarity** and utilized **HDBSCAN** to reduce redundancy of articles, validated with backfill runs before a staged rollout to production.

Data Engineer - Cognizant   September 2022 - July 2023

- Ensured Snowflake warehouse reliability by monitoring **200+ key metrics** and **10+ Airflow** DAGs, actively resolving job failures and ensured timely scorecard refreshes ahead of business use, meeting SLAs.
- Identified recurring bottlenecks, collaborated with other DE's to **optimize SQL queries**, resulting in a 40% reduction in query execution time, reducing scorecard delay by **20 minutes** on a year over year basis.
- Developed a time-series based machine learning POC with an aim to offer predictive analytics to business users, performed EDA on a complex internal dataset, performed **A/B testing** for deploying the best model.

Software Engineer Intern - PhysioAI   September 2021 - Feb 2022

- Developed a React Native and Django based yoga assistant using pose-specific MLP classifiers, achieved accurate detection of **30** yoga poses at **30 FPS** with less than **40 ms** end-to-end latency.
- Engineered a machine learning pipeline with one binary model per pose with an aim to reduce overlap and improve classification accuracy between similar poses, collecting **18K** predictions per session.
- Designed a star schema-based dimensional model to track **40 session-level KPIs** (pose hold duration, average confidence, recovery count), enabling detailed progress analytics across users.

Data Science Intern - Ineuron.ai   September 2020 - January 2021

- Spearheaded the life cycle of **3** product categories of a warehouse by scraping over **10K+** images per category.
- Ensembled, trained and deployed the best performing CNN models to production, enhancing ops efficiency.

PROJECTS

Coupon Accepting MLOps Pipeline | MLFlow, EC2, S3, RDS, Terraform, Docker, Prefect, Github Actions
Built a MLOps pipeline, enabling experiment tracking, orchestration and automated deployment using CI/CD.

Decentralized App - Web3 (Published: IEEE) | Dash-Plotly, Tensorflow, Flask, ReactJs, Ganache, Solidity, CNN
Developed a POC to securely store medical records, trained Convolutional neural networks models with transfer learning.