Dheeraj Rahul Reddy Piduru

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EDUCATION

The University of Texas at Dallas

Master of Science, Business Analytics

Dec 2025 GPA: 3.72

Relevant Coursework: Advanced Statistics for Data Science, Applied Machine Learning, Applied Deep Learning, Predictive Analytics for Data Science, Prescriptive Analytics, Big Data Analytics, Applied Econometrics

Mahindra University, Hyderabad

Bachelor of Technology, Computer Science & Engineering

Aug 2023 GPA: 3.00

TECHNICAL SKILLS

Languages: Python, R, SQL

Data Science Libraries: Pandas, NumPy, Scikit-Learn, TensorFlow, Keras, PyTorch, XGBoost

Data Analysis & Visualization: Matplotlib, Seaborn, Plotly, Tableau, Power BI, Excel

Databases: MySQL, PostgreSQL, MongoDB, Snowflake

Machine Learning Ops & Tools: MLflow, Databricks, Git, GitHub Actions, Jenkins, Airflow Cloud Platforms: AWS (EC2, S3, RDS, Lambda, Redshift), Azure, Docker, Kubernetes

WORK EXPERIENCE

Business Analyst Intern | Skiaverse Private Limited, Hyderabad, India

Jan 2023 - Aug 2023

- Utilized Python (Pandas, NumPy, Scikit-learn) and SQL to preprocess, engineer features, and analyze over 50,000 rows of real-time market data, uncovering behavior trends that drove a region-specific Go-To-Market (GTM) strategy.
- Developed and deployed a predictive model using **XGBoost and logistic regression** to simulate market responses, contributing to a **10% increase in customer engagement** across diverse product segments within the first quarter.
- Applied unsupervised clustering (K-means, PCA) to identify high-conversion customer segments and collaborated with marketing to optimize messaging strategies, improving marketing ROI by 12% across targeted campaigns.
- Designed a dynamic **Tableau dashboard** integrated with **AWS Redshift** and **MLflow** to automate reporting on 7 KPIs, improving operational visibility by **15%** and reducing manual reporting time by 8+ hours weekly.
- Built reproducible ML pipelines on **Databricks** and orchestrated batch ETL workflows with **Apache Airflow**, ensuring scalable analytics delivery from raw ingestion to model evaluation and dashboard integration.

PROJECTS

Cloud Data Integration Pipeline | PostgreSQL, Snowflake, dbt, EC2

- Created a scalable end-to-end ETL framework in Python and SQL to integrate PostgreSQL with Snowflake, reducing data processing time by 35% through dbt incremental model execution and schema optimization.
- Prepared and implemented schema-aware transformations using modular dbt SQL logic, improving data consistency and reducing redundant query executions by over 40% across daily batch workflows.
- Built anomaly detection dashboards with Pandas and automated EC2-based health checks with Slack alerting, ensuring real-time monitoring and maintaining 99% pipeline uptime in production environments.

Real-time Social Media Sentiment Analyzer | NLP, Apache Spark, Kafka, Apache Flink

- Built end-to-end streaming pipelines using Kafka and Apache Flink to classify over **1K+ social media posts per minute** from Twitter and Reddit, reducing insight latency by **30%** and enabling faster campaign adjustments.
- \bullet Integrated pretrained NLP models in PySpark with TextBlob for real-time sentiment classification, improving language processing accuracy by over 25% and enabling immediate categorization of diverse content streams.
- Applied keyword clustering and topic modeling using Scikit-learn to track brand sentiment shifts in real-time, allowing marketing teams to react with 40% faster response to trending consumer feedback and news cycles.
- Developed a live dashboard using Apache Spark Structured Streaming and Plotly Dash to visualize emerging sentiment trends, reducing manual tracking effort by over 50% and enabling data-driven marketing interventions.

Dynamic Data Lakehouse for Customer Insights | Apache Iceberg, Parquet, Spark, Airflow

- Designed a scalable Iceberg-based data lakehouse architecture to support time-travel queries on historical snapshots, reducing exploratory data analysis (EDA) runtime by **2x** across large-scale datasets.
- Tuned complex Spark SQL transformation jobs with optimized Parquet partitioning and predicate pushdown, accelerating query performance by 45% while minimizing compute resource utilization.
- Automated ingestion of behavioral and transactional data from 15+ microservices using Apache Airflow DAGs, improving workflow reliability and reducing data ingestion failures by over 60%.
- Performed cohort segmentation on processed datasets using Python and Pandas, enriching customer journey analytics and increasing report clarity and business insight depth by 30%.