SUSHMA KUMMARI

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https://github.com/tsuki3002

PROFESSIONAL SUMMARY

Detail-oriented Data & AI Professional with a strong foundation in analytics, machine learning, and cloud technologies. Skilled in building data pipelines, predictive models, and dashboards to extract actionable insights. Passionate about using data to solve real-world problems across industries.

EDUCATION

University of North Texas | Denton | Texas
Master of Science in Advanced Data Analytics   GPA: 4.0
Relevant Coursework: Data Programming (Python, R), Machine Learning, Healthcare Data Analytics, Visualization (Power BI, Tableau), Statistics.
School of Engineering | Sreenidhi Institute of Science and Technology | Hyderabad
Bachelor of Technology in Electronics and Communication   GPA: 3.61

SKILLS

Languages & Tools: SQL, R, Python, Excel, Tableau Prep, Jupyter, Git, OpenRefine
Data Analysis & Visualization: Pandas, Polars, Tableau, Power BI, Matplotlib, Seaborn, Plotly
Statistics: Hypothesis Testing, Regression, Classification, Clustering, A/B Testing, Outlier Detection, Experimental Design, Exploratory Data Analysis (EDA), Data Storytelling, Model Evaluation, Time Series Analysis
Big Data and Cloud platforms: Apache Spark, AWS (S3, Redshift), GCP (BigQuery), Databricks
Machine Learning & AI: Scikit-Learn, TensorFlow, PyTorch, NLP, LLMs, GPT, BERT
Soft skills: Problem-solving, Stakeholder Management, Team Collaboration, Communication, Leadership
Certifications: Microsoft Certified: Data Analyst Associate (PowerBI), AWS Certified: Academy Graduate Data Analytics, Datacamp Certified: Introduction to SQL, Intermediate SQL, Joining Data in SQL

WORK EXPERIENCE

University of North Texas | Denton | Texas   **Aug 2024 – Dec 2024**
Graduate Teaching Assistant
- Led advanced data science and analysis sessions, guided students through ML projects, and supported curriculum design.
- Provided actionable insights from datasets, improved student understanding of real-world data problems.

Trio Hospice | Denton | Texas   **May 2023 – Aug 2023**
Volunteer Data Engineer
- Designed and managed ETL pipelines for healthcare service data to support optimized scheduling and care.
- Enabled real-time reporting and data insights to improve patient outcomes.

The Robotics Club, SNIST | Hyderabad | Telangana   **Jan 2022 – Apr 2022**
Volunteer AI Engineer
- Built dashboards and AI models to streamline event logistics and participant monitoring.
- Collaborated with teams using SQL, Tableau, and Python for performance monitoring.

PROJECTS

Heart Rate Monitoring and Data Analysis for Emergency Response   **Apr 2023**
- Developed real-time pulse monitoring system with ML-based alert system.
- Enhanced response accuracy through anomaly detection and trend analysis.

Carbon Emissions Prediction and Analysis   **Dec 2023**
- Developed ML models to predict carbon emissions from US datasets for renewable energy planning.
- Delivered data-driven insights supporting environmental policy formulation.

Biomechanical Movement Analysis using IMU Sensors.   **Dec 2024**
- Integrated, cleaned, and modeled IMU sensor data to analyze joint movements using ML algorithms.
- Built ETL workflows and visualizations to improve accessibility for healthcare practitioners.

Conditional Cash Transfer Program Analysis   **May 2024**
- Integrated health data and evaluated program effectiveness using ML pipelines.
- Produced strategic reports with predictive insights to support social developments efforts.

AI-Powered Waste Collection Optimization   **Apr 2022**
- Engineered an AI-based trash collection system using ML and robotic integration.
- Identified operational bottlenecks and improved efficiency using real-time sensor data.