Mallikarjun Gudumagatte Nagaraja

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TECHNICAL SKILLS
Languages: Python, R, SQL.
Tools: Microsoft Excel, Power BI, Tableau, Spark, Linux, Hive, Hadoop, Git, GitHub, AWS, Azure.
Libraries & Technology: Pandas, NumPy, scikit-learn, XGBoost, SciPy, PyTorch, Keras, TensorFlow.
Certificates: **AWS Certified Developer – Associate**, **Azure** Fundamentals, **Microsoft Power BI Data Analyst** Certificate (In Progress).

PROFESSIONAL EXPERIENCE
Ackerman Center for Holocaust Studies – The University of Texas, Dallas, TX   June 2024 – May 2025
Research Analyst
- Synthesized analytical views from various business dimensions, leveraging Power BI dashboards to support decisions on course offerings and student engagement strategies, leading to an 11.5% increase in enrollments.
- Engineered web applications hosted on AWS RDS to centralize 6M+ rows of enrollment and historical data, powering a GenAI chatbot to help researchers retrieve relevant insights and answer foundational queries with 90% less manual effort.
- Mentored peer researchers utilizing statistical analysis tools, Power BI, and advanced programming techniques to clean and process data for strategic reporting, enhancing the team's analytical capabilities.

Innover Digital, Alpharetta, GA (Remote)   April 2022 – June 2023
Associate Analyst
- Pulled, cleaned, and analyzed data from AWS Redshift, utilizing Power BI to create dynamic dashboards and reports based on over 50 Azure DevOps tickets, facilitating decision-making for tax software usage optimization.
- Architectured and automated ETL data pipelines to streamline data processing, reducing reporting time by 40% and improving the timeliness of strategic insights and reporting.
- Collaborated with cross-functional teams to integrate AWS Lambda and Redshift, driving a 30% improvement in real-time analytics and operational efficiency across product features.
- Applied advanced statistical models and programming languages (Python, SQL) to analyze key business metrics, enabling more precise decision-making for product improvements.

ACADEMIC PROJECTS
Revenue Optimization in Airline Pricing, Big Data Analytics   January 2025 – May 2025
- Evaluated credit risk by comparing XGBoost and CNN models, applying statistical analysis and hyperparameter tuning, fine-tuning the model, achieving 11.6% higher accuracy.

Emotion Detection in Tweets, Applied Natural Language Processing   August 2024 – December 2024
- Trained a multi-label classification model using Hugging Face transformers and PyTorch, achieving 78% accuracy in emotion tagging of social media content through customized fine-tuning and weighted loss handling.

Integrated Analysis on SDG-3 Energy Access (Afghanistan), Applied Machine Learning   August 2024 – December 2024
- Designed regression and time-series models to predict electricity access trends in Afghanistan, revealing an increase from 1.73% to 97.71% in access using large-scale structured datasets.

A/B Testing on E-Shop Clickstream Data, Causal Analytics and A/B Testing   January 2024 – May 2024
- Optimized conversion rates by implementing an A/B testing framework on the E-Shop Clickstream Dataset, utilizing hypothesis testing to assess the impact of UI changes like button color and layout on user engagement.

EDUCATION
The University of Texas at Dallas**,** Richardson, TX   August 2023 – May 2025
Master of Science, Business Analytics and Artificial Intelligence - Data Science Cohort (STEM)
Dean's Excellence New Student Cohort Scholarship, Scholar with Recognition
Graduate Certificate, Applied Machine Learning, Data Mining, and Decision Science   December 2024
Coursework: Causal Analytics, A/B Testing, Statistics, Predictive and Prescriptive Analytics, Econometrics, Time Series Analysis.

REVA University**,** Bengaluru, India   August 2018 – May 2022
Bachelor of Science, Electronics and Communications Engineering

ORGANIZATION/LEADERSHIP
Naveen Jindal School of Management, Program Mentor   August 2024 – May 2025
EnVision UTD, Head of Technology and Finance   January 2024 – May 2025