

Mallikarjun Gudumagatte Nagaraja

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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 Business Intelligence

August 2023 - 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

TECHNICAL SKILLS

Languages: Python, R, SQL.

Tools: Microsoft Excel, Power BI, Tableau, Visual Studio Code, Jupyter Notebook, Spark, Linux, Hive, Hadoop, Git, GitHub.

Libraries & Technology: Pandas, NumPy, scikit-learn, XGBoost, SciPy, PyTorch, TensorFlow, Keras, HuggingFace.

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 – Present

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.

Innovor Digital, Alpharetta, GA (Remote)

April 2022 – June 2023

Associate Developer – Business Intelligence

- 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.
- Architected 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

RemembranceAI – Holocaust Data Chatbot, Applied Generative AI, Ackerman Center

January 2025 – May 2025

- Developed a retrieval-augmented (RAG) chatbot using LangChain, Mistral 7B, and FAISS Vector DB to deliver accurate, context-aware responses from Holocaust data, enhancing research accessibility.

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 86% accuracy in emotion tagging of social media content through customized fine-tuning and weighted loss handling.

Integrated Analysis on SDG-3 Energy Access (Afghanistan), Programming for Data Science

January 2024 – May 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.

Credit Risk Analysis - American Express, Applied Machine Learning

January 2024 – May 2024

- Evaluated credit risk analysis by comparing XGBoost and CNN models, applying statistical analysis and hyperparameter tuning, fine-tuning the model, achieving 11.6% higher accuracy.

ORGANIZATION/LEADERSHIP

Naveen Jindal School of Management, Program Mentor

August 2024 – May 2025

EnVision UTD, Head of Technology and Finance

January 2024 – May 2025