

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, JavaScript, ReactJS, NodeJS, HTML, CSS, SQL.

Tools & Frameworks: Power BI, Tableau, Excel, Visual Studio, Hive, Hadoop, Spark, Git, Linux.

Cloud Platforms: AWS (Redshift, Lambda, S3, EC2), Azure (Azure Active Directory, Azure DevOps, Azure Repos)

Agile & Collaboration: Requirement Gathering, Design, Documentation, Deployment, and Production Support.

Certifications: AWS Certified Developer – Associate (Active), Microsoft Certified: Azure Fundamentals.

PROFESSIONAL EXPERIENCE

Ackerman Center for Holocaust Studies – The University of Texas at Dallas, Richardson, TX

June 2024 – May 2025

Research Analyst – Data Engineering

- Oversaw a 7-member Agile team to deliver a web-based data extraction tool hosted on AWS RDS, leading daily standups, assigning tasks, and streamlining cross-functional execution, which reduced manual document lookup time by 90%.
- Built scalable data pipelines using Python and SQL to process multilingual documents, improving throughput by 70% while supporting AWS-hosted applications with 6M+ records.
- Developed and maintained a data-centric web app hosted on AWS RDS to enable high-volume query access and visual analytics, reducing manual retrieval by 90%.
- Extracted information from photocopied documents into Excel using NLP and automated translations from German to English using the OpenAI API, improving accessibility for non-German-speaking team members.

Innovet Digital, Alpharetta, GA (Remote)

April 2022 – June 2023

Associate Developer – Software Engineering

- Bridged business and technical teams by capturing 50+ functional requirements and converting them into clear, testable Azure DevOps stories, enabling developers to implement enhancements and resolve issues with minimal rework.
- Led the backlog grooming process and managed sprint planning tasks, resulting in the on-time delivery of 10+ product enhancements and 20+ bug fixes aligned with stakeholder priorities.
- Maintained and validated AWS Redshift and Lambda integrations to ensure smooth data ingestion and processing pipelines, supporting real-time analytics with 99% uptime across development cycles.
- Defined 15+ use cases in collaboration with stakeholders and developed Power BI dashboards to track tax software performance and user behavior, reducing ad-hoc reporting requests.

ACADEMIC PROJECTS

Data Extraction Tool for Historical Records, Ackerman Center

January 2024 – May 2024

- Built a data extraction tool with React frontend, Python backend, and FastAPI integration; connected to AWS Redshift to enable dynamic querying of 6M+ Holocaust records, reducing search time for researchers by 90%.

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.

Credit Risk Analysis – American Express, Applied Machine Learning

January 2024 – May 2024

- Evaluated credit risk by comparing XGBoost and CNN models, applying statistical analysis, hyperparameter tuning, fine-tuning the model, and performance tuning, 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