Megha Chandrasekharan Nair
+14084207189; megha.chandrasekharannair@utdallas.edu; LinkedIn; PortFolio; GitHub

SUMMARY

Accomplished Master's student (4.0 GPA) in Business Analytics and AI. Expertise in machine learning, deep learning, NLP, and statistical modeling. Leverages advanced analytics and cloud platforms (AWS, Azure, GCP) to derive insights and build predictive solutions.

EDUCATION

The University of Texas at Dallas December 2025
Master of Science, Business Analytics and Artificial Intelligence (STEM) **GPA 4.0**
***Key Courses*:** Statistics, Predictive Analytics, Databases, Natural Language Processing, Deep Learning, Business Analytics *(Teaching Assistant)*

SKILLS

- **Programming Languages:** Python (Pandas, NumPy, Scikit-Learn, TensorFlow, PyTorch, Hugging Face), SQL, R, JavaScript, HTML
- **Machine Learning & AI:** Hypothesis Testing**,** Supervised/Unsupervised Learning, MLOps, Time-Series Analysis, Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), Natural Language Processing (NLP), Deep Learning
- **Data Analysis & Visualization:** Power BI, Tableau, Microsoft Excel (VLOOKUP, Macros, Pivot Tables), JMP, Matplotlib, Alteryx
- **Big Data & Cloud:** Hadoop, Spark, Flume, Sqoop, AWS (S3, Lambda, SageMaker), Google Cloud Platform (GCP - Cloud Run, GCS)
- **Methodologies & Frameworks:** A/B Testing, Feature Engineering, Model Interpretability (SHAP), Fast API, ReactJS, Angular
- **Domains & Soft Skills:** Retail, E-commerce, B2B, B2C, Process Documentation, Team Collaboration, Data Storytelling

PROFESSIONAL EXPERIENCE

Publicis Sapient | Associate technology L2 June 2022 – July 2023
- Developed an intuitive **mobile Point-of-Sale (mPOS) application UI** for a major retailer, increasing customer satisfaction by 20%.
- Performed in-depth **funnel analysis to pinpoint drop-off points**, implementing strategic improvements that reduced drop-off rates by 18%.
- Executed sophisticated **clickstream analysis to optimize content personalization**, driving a significant 15% increase in sales conversion rates.

Accenture | Application Development Senior Analyst November 2018 – June 2022
- Led the **development of a web application for generating client custom proposals**, achieving 90% reduction in operational costs and time.
- Integrated **PyTorch-based intelligent template recommendation systems**, enhancing stakeholder efficiency by 30%.
- Designed and optimized **Power BI dashboards to track proposal success rates**, improving client engagement and strategic insights by 15%.
- Developed robust **predictive models to accurately forecast proposal development times**, slashing project timeline estimations by 35%.
- Optimized **SQL queries for complex databases**, ensuring seamless data integrity and high performance for dynamic web applications.
- Collaborated effectively with cross-functional teams to translate intricate client requirements into visually engaging and interactive solutions.

ACADEMIC PROJECTS

Customer Churn Dashboard, *Business Analytics*
- Designed **Power BI dashboards** analyzing customer churn patterns, generating actionable reports for retention strategies.
- Applied **clustering algorithms** using Scikit-Learn to segment customers and optimize retention strategies.

SBA Loan Prediction*, Applied Machine Learning*
Tech Stack: *H2O.ai, Scikit-learn, Python, Logistic Regression, Gradient Boosting*
- Achieved 85% accuracy predicting loan defaults **using ensemble models**; enhanced model interpretability with **SHAP**.
- Conducted **EDA and engineered features** for improved risk profiling.

JobAssist – AI Powered Recommendation Platform, *AI in Action Hackathon*
Tech Stack: *FastAPI, React, MongoDB Atlas, GCP Cloud Run, GCS, MongoDB Vector Search, Python, RAG, Gemini LLM*
- Engineered a **full-stack job matching app**, precisely matching resumes to jobs using **RAG-style logic and cosine similarity**.
- Integrated **Google Gemini for personalized resume feedback**; deployed on **GCP with secure file handling via GCS and a React frontend**.

Emotion Detection Model, *Applied Natural Language Processing*
Tech Stack: *Hugging Face, BERT, Gemma, PyTorch, Logistic Regression, LSTM*
- Built a multi-label emotion classifier using **LLMs and deep learning**, achieving 61% F1-macro on unseen data.
- Used **BeautifulSoup** for text preprocessing and explored both traditional and transformer-based models.

CERTIFICATIONS

AWS Certified Cloud Practitioner; **AZ-900** – Microsoft Azure Fundamentals; **SQL for Data Science** – UC Davis; **BA and Data Mining** – UTD

LEADERSHIP EXPERIENCE

The University of Texas at Dallas, Teaching Assistant August 2024 – May 2025
- Facilitated practical learning in data visualization and machine learning using **R and Python**, improving assessment outcomes by 20%.

Business Analytics Leadership Council, *Team Lead* February 2024 – Present
- Streamlined internal processes using **Power Automate**, enhancing the efficiency of managing the SharePoint site.

Defence Research and Development Organization of India, *Project trainee* January 2018 – May 2018
- Published **research on Doppler Analysis** using Compressive Sensing Techniques in IEEE Xplore.