

Megha Chandrasekharan Nair

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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, SQL, R, JavaScript, HTML, CSS
- **Machine Learning & Statistics:** Supervised learning, Unsupervised learning, MLOps, Hypothesis Testing, Time-Series
- **AI Technologies:** Large Language Models (LLMs), RAG, Natural language Processing, Deep Learning
- **Frameworks & Libraries:** TensorFlow, PyTorch, Scikit-Learn, Hugging Face, Keras, OpenAI API
- **Data Analysis & Visualization:** Power BI, Tableau, Excel (VLOOKUP, Macros, Pivot Tables), JMP, Matplotlib, Seaborn, ggplot2, Alteryx
- **Big Data & Cloud:** Hadoop, Spark, Flume, Sqoop, AWS (S3, Lambda, Sage Maker), Microsoft Azure
- **Domains & Soft Skills:** Retail, E-commerce, B2B, B2C, Communication, Process Documentation, Team Collaboration, Data Storytelling

PROFESSIONAL EXPERIENCE

Publicis Sapient | Associate technology L2

June 2022 – July 2023

- Developed a **mobile Point-of-Sale (mPOS) application** UI for The Container Store, increasing customer satisfaction by 20%.
- Performed **funnel analysis** to identify drop-off points and improve user navigation flow, reducing drop-off rates by 18%.
- Implemented **clickstream analysis** to improve content personalization resulting in a 15% increase in sales conversion rates.

Accenture | Application Development Senior Analyst

November 2018 – June 2022

- Spearheaded the development of a **web application** for creating client custom proposals, cutting operational costs and time by 90%.
- Integrated **intelligent template recommendations** systems with PyTorch, improving stakeholder efficiency by 30%.
- Designed and optimized **Power BI** dashboards to track proposal success rates, enhancing client engagement by 15%.
- Developed **predictive models** to estimate proposal development times, reducing project timeline estimations by 35%.
- Leveraged **SQL** to optimize database performance and ensure seamless data integrity for dynamic web applications.
- Collaborated with **cross-functional teams** to transform client requirements into visually engaging, interactive solutions.

ACADEMIC PROJECTS

Customer Churn Dashboard, *Business Analytics*

- Designed **Power BI** dashboards analyzing customer churn patterns, creating actionable reports for customer retention.
- 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

- Built a full-stack job matching app; matched resumes to 300+ job descriptions **using RAG-style logic and cosine similarity**.
- Integrated **Gemini for personalized resume feedback**; **deployed on GCP with secure file handling via GCS** and 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.