Megha Chandrasekharan Nair

408.420.7189 | meghacnair96@gmail.com | LinkedIn | Portfolio | GitHub

SUMMARY

Data Scientist skilled in Python, SQL, and ML, with experience in predictive modeling, behavioral clustering, and recommendation systems. Delivered measurable impact by improving conversions and reducing costs through data-driven solutions.

SKILLS

- **Programming & Tools:** Python, SQL, R, PySpark, JavaScript, TypeScript, HTML, CSS, Git
- **ML & AI:** Statistical Modeling, Supervised and Unsupervised Learning, NLP, Deep Learning, LangChain, LangGraph, RAG
- **Data & Visualization:** Power BI, Tableau, Matplotlib, Excel (VLOOKUP, Macros, Pivot Tables), Alteryx
- **Big Data & Cloud Platforms:** Hadoop, Spark, Flume, Databricks, Snowflake, Sqoop, AWS (S3, Lambda, SageMaker), GCP
- **Domains & Other Expertise:** Retail, E-commerce, B2B, B2C, Data Storytelling, Cross-Functional Collaboration
- **Certifications:** AWS Certified Cloud Practitioner; AZ-900 – Microsoft Azure Fundamentals; BA and Data Mining – UTD

PROFESSIONAL EXPERIENCE

Publicis Sapient | Associate technology L2 June 2022 – July 2023

- Developed behavioral segmentation and clustering models to optimize personalization, delivering a 15% lift in sales conversions.
- Conducted funnel analysis to pinpoint drop-off points and implemented strategic improvements reducing drop-off rates by 18%.
- Built data-driven mPOS UI using ReactJS, enabling endless aisle selling and improving customer satisfaction by 20%.
- Collaborated with PMs/engineers to operationalize insights via A/B testing and ML-driven workflows, reducing churn by 10%.

Accenture | Application Development Senior Analyst November 2018 – June 2022

- Built automated proposal generation pipelines (Python, SQL, JavaScript), reducing operational cost and turnaround time by 90%.
- Integrated PyTorch-based intelligent template recommendation systems, improving stakeholder efficiency by 30%.
- Optimized SQL queries and data pipelines for complex relational databases, ensuring data integrity and cutting query latency by 25%.
- Collaborated effectively with cross-functional teams to translate client requirements into visually engaging and interactive solutions.

ACADEMIC PROJECTS

JobAssist – AI Powered Recommendation Platform, AI in Action Hackathon

Tech Stack: *Python, RAG, Gemini LLM, FastAPI, React, MongoDB Atlas, GCP Cloud Run, GCS, MongoDB Vector Search*

- Implemented RAG-style vector search with LLMs for personalized recommendations.
- Deployed on GCP Cloud Run with secure cloud storage and integrated AutoML components.

Emotion Detection Model *(Applied NLP)*

Tech Stack: Hugging Face, BERT, Gemma, TensorFlow, PyTorch, Logistic Regression, LSTM

- Built multi-label classification for emotion detection using transformer-based architectures, achieving 61% macro-F1.
- Applied text preprocessing and feature engineering for model performance optimization.

SBA Loan Prediction*,* Applied Machine Learning

Tech Stack: Pandas, NumPy, Scikit-Learn, *H2O.ai, Logistic Regression, Classification, Gradient Boosting*

- Achieved 85% accuracy predicting loan defaults using ensemble models and enhanced model interpretability with SHAP.
- Applied model validation, interpretability, and performance tuning for improved risk profiling.

Fuel Blend Property Prediction for Optimized Energy Compositions, Shell.ai Hackathon

Tech Stack: *Regression, XGBoost, CatBoost, Neural Networks, Scikit-learn, PyTorch, Gridsearch*

- Built a high-performance ML pipeline to predict 10 key fuel properties using fractional and physical component data.
- Engineered interaction features and performed rigorous data wrangling, improving model performance by ~32%.

LEADERSHIP EXPERIENCE

Business Analytics Leadership Council, *Team Lead* February 2024 – Present

- Streamlined internal processes using Power Automate, enhancing the efficiency of managing the SharePoint site.

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%.

EDUCATION

The University of Texas at Dallas December 2025

Master of Science, Business Analytics and Artificial Intelligence (STEM) **GPA 4.0**

***Key Courses*:** Predictive Analytics**,** Statistics, Machine Learning, Deep Learning, NLP, Big Data, Business Analytics *(Teaching Assistant)*