Miriam Ufoma Agbaragu

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Profile Summary:

A meticulous and organized individual seeking an entry level position in the field of data analytics. I want to apply my newly learnt skills in creating stories out of data, cleaning data and presenting business solutions.

Education:

Post Graduate Program in Data Science and Business Analytics
University: University of Texas at Austin
Year: Dec 2025

Graduation: Bsc Management
University: Rivers State University, Nigeria
Year: 2013

Skills:

Statistics and Data Visualization:
Descriptive, Statistical, Predictive Analytics, Seaborn, Matplotlib
Deep Learning: Neural Networks, Computer Vision, Image Recognition, Natural Language Processing, Web Scraping, Tensorflow, Keras
Machine Learning: Classification and Regression Algorithms, Statistical Inference, Exploratory Data Analysis, Clustering Techniques, PCA, Recommendation Systems, Hyperparameter Tuning, Feature Selection, Scikitlearn, Numpy, Pandas
Database: SQL, Excel
Other software/Tools: Jupyter Notebook, Google Collab

Capstone Projects:

Recell Project
➢ Analyzed used and refurbished smartphone sales data to identify key price drivers (brand, storage, age, condition) using EDA and statistical testing.
➢ Built and validated a multiple linear regression model after addressing multicollinearity and verifying assumptions.
➢ Achieved $R^2 \approx 0.81$ and reduced MAPE from ~6% to ~4.6%, enabling accurate dynamic pricing within ~4.6% of actual market value.
Key Skills: EDA, Linear Regression, Linear Regression Assumptions, Business Insights and Recommendations

E-news Express Project

Description:

➢ Examined online news interaction logs to identify engagement patterns influencing subscription likelihood using statistical analysis and feature selection.
➢ Trained and optimized ensemble classifiers (Random Forest, Gradient Boosting) achieving ROC-AUC ≈ 0.94 and improving subscription prediction accuracy by ~14% over baseline, enabling targeted marketing campaigns.
Key Skills: Hypothesis Testing, a/b testing, Data Visualizatio, Statistical Inference, Business Insights and Recommendations

Project -3
FoodHub Order Analysis using Python

➢ Performed EDA and demand-ranking of restaurants; identified top performers (Shake Shack, The Meatball Shop, Blue Ribbon Sushi) and high-demand cuisines (Spanish, Thai) to inform partnership and targeted-promotion strategy.
Key Skills: EDA, Univariate Analysis, Bivariate Analysis, Python, Business Insights and Recommendations

Hackathon Project
Restaurant Turnover Prediction

➢ Analyzed restaurant metadata, ratings, social media metrics, and customer surveys to identify key drivers of annual turnover using EDA and statistical feature engineering.
➢ Developed and tuned a Gradient Boosting model with target encoding, outperforming Random Forest and XGBoost baselines.
➢ Achieved RMSE ≈ 12.63 M INR, enabling restaurant revenue forecasts within ~12.6 M of actual turnover for strategic planning.
Key Skills: Machine Learning, Feature Engineering, EDA, Model Evaluation, Data Visualization, Python