Ayaan Omair

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EDUCATION

Master of Science, Data Science

December 2025

Texas A&M University, College Station, TX

Bachelors, Mathematics (Statistics); Psychology minor

Dachelors, Wrathematics (Statistics), 1 Sychology minor

August 2020 - May 2024 3.90 GPA (summa cum laude)

Arizona State University, Tempe, AZ

TECHNICAL SKILLS

Languages and Tools:

- **Python, R, SQL (MySQL, PostgreSQL)**, SAS, JavaScript, HTML/CSS, Linux, Excel, Tableau, Alteryx, Jupyter, LaTeX Libraries & Machine Learning Methods:
 - Pandas, NumPy, Scikit-learn, Matplotlib, **Decision Trees, Regression (Linear, Logistic, Lasso, Ridge, Poisson, etc.)**, K-Means, Gaussian Mixture Models, Mean-Shift, DBSCAN, **PCA, KNN, SVM**

Coursework:

Data Mining and Analysis, Linear Algebra, Applied Linear Regression, Mathematical Statistics, Scientific Computing, Data Wrangling with SQL, Data Analysis with Python, Exploring Data in R/Python, Applied Analytics

RELEVANT EXPERIENCE

SQL and Python Trainee - Global Tech Experience

May 2023 - July 2023

- Devised **SOL** queries to efficiently extract, analyze, and manipulate complex datasets for actionable insights
- Analyzed and visualized data findings using Jupyter Notebook and Python
- Gained insights into global business strategy through EDA, summary statistics, and visualization
- Collaborated with a global team to perform different tasks using SQL and Python
- Obtained experience using Python and SQL by creating various personal and professional projects

PROJECTS

Disease Prediction Model April 2025

- Constructed *logistic regression* and *decision tree* models in *Python* to predict Heart Disease, Kidney Disease, and Skin Cancer
- Achieved up to 75% accuracy and AUC scores as high as 0.84 across all models, demonstrating strong model performance
- Identified high recall (e.g., 78%) but low precision for positive cases due to class imbalance, highlighting the challenge of predicting rare disease occurrences
- Compared and evaluated model performance using F1 score and AUC, ensuring a comprehensive assessment while confirming model generalizability by observing no overfitting through training and testing accuracy comparison

Loan Default Prediction March 2025

- Built a logistic regression model in Python to predict loan default using LendingClub data
- Addressed class imbalance using sampling techniques such as SMOTE, ADASYN, and RandomOverSampler
- Achieved up to 70% recall, 0.70 AUC, and 0.35 F1-score on unseen test data
- Conducted data preprocessing and model evaluation to compare resampling strategies and enhance prediction performance

Grammy Awards Project

July 2023

- Leveraged **Python** to perform data analysis and visualization of real website data used by the Recording Academy
- Examined the impact of splitting up a website into two separate websites (grammy.com and recordingacademy.com) by analyzing different variables (number of visitors per day, average session time, user interaction, etc.)
- Assessed and visualized website data for Grammy.com to identify key trends and provided data-driven recommendations aligned with business goals

PROFESSIONAL EXPERIENCE

Sports Data Operator (Part-time)

May 2023 - Present

SportRadar

- Watch major sporting events and record events in real-time using a mobile app for statistic gathering
- Attend live sporting events
- Remain knowledgeable of the rules of the sport and the teams/players involved

Data Analyst Intern

January 2024 - May 2024

Internship (for Credit)

- Designed and implemented an *ETL process* to support SC Del Sol youth soccer coaches by extracting player data from multiple Excel sources, transforming it with *Python (Pandas)* for cleaning and formatting, and loading it into an interactive *Excel* dashboard
- Developed a user-friendly dashboard interface in Excel to visualize comprehensive player insights and statistics
- Collaborated with coaching staff to identify key metrics and tailor data views to their decision-making needs