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

August 2020 - May 2024

Arizona State University, Tempe, AZ

3.90 GPA (summa cum lade)

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, etc.)**, K-Means, SVM, Gaussian Mixture Models, Mean-Shift, DBSCAN

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 SQL queries to efficiently extract, analyze, and manipulate complex datasets for actionable insights
- Analyzed and visualized data findings using Jupyter Notebook and *Python*
- Gained knowledge of global business strategies by performing exploratory data analysis, data visualizations, and data cleaning
- 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

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)
 - Assessed the data for a better understanding of the different trends and audience behavior on both sites

Traffic Collisions in California Analysis

June 2023

- Conducted data analysis using **SQL** to determine the leading causes of accidents in the State of California while using real-time data from the California Highway Patrol's Statewide Integrated Traffic Records System (SWITRS)
- Visualized and communicated the results using *Tableau* to portray trends in collision data, highlighting peak accident times and comparing crashes caused by texting vs. DUI

PROFESSIONAL EXPERIENCE

SC Del Sol Research Project

January 2024 - May 2024

Internship (Internship Credit Course)

- Developed a player dashboard using Excel and Python to assist SC Del Sol youth soccer program coaches navigate player data effectively
- Utilized Excel to design and create a user-friendly dashboard interface for coaches, providing comprehensive player insights and statistics
- Employed Python to clean and preprocess raw data, ensuring accuracy and readability within the Excel dashboard
- Collaborated with SC Del Sol youth staff to understand coaching needs and tailor the dashboard to meet requirements

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