Mitchell Fairweather

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https://github.com/mitchfwx
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Education

B.S. Finance, Business Analytics
Miami University
August 2017 - May 2021
Oxford, OH
Summa Cum Laude
GPA: 3.99

Skills

Python (Pandas, Selenium, Scikit-Learn)
Jupyter Notebook
SQL
R (Markdown, dplyr, ggplot, caret)
Alteryx Designer
Tableau
PowerBI
Time Series Forecasting
Market Basket Analysis
Sentiment Analysis

Interests

Music
Running
Technology
Golf

Work Experience

KPMG - Columbus, OH

Associate - 06/2021 to Present

- Developed a suite of python based automation tools accessible through a Kivy based GUI. Targeted highly manual and time consuming build activities that reduced manual hours by 80%.
- Built advanced SQL queries and designed a dashboard in Excel for tracking the aging, statuses, and details of system integration testing defects, saving 10 hours per week in manual reporting.
- Collaborated with team members to construct an auditable Alteryx workflow that automated the aggregation of data from 15+ sources and generated individualized review packets based on client requirements.

Center for Analytics and Data Science - Oxford, OH

Student Fellow - 09/2019 - 05/2021

Chemometrics Project for Miami University Chemistry Dept.

- Reduced the screening process of over 70,000 potential inhibitors by over 90% through the application of deep learning and machine learning models to the study of beta-lactamase inhibitors, a promising area of research for treating antibiotic resistance bacteria.
- Worked on a team of two other data scientists and multiple experts in the chemometrics field.
- Awarded grants from the NIH to continue our research.

Credit Card Processing Project for Financial Services Client

- Collaborated with senior members of the team throughout the data mining process to explore the root causes of high levels of credit card processing denials.
- Performed various analyses on credit card processing data including survival analyses, association rules mining, and data visualization to identify important insights and relationships in the data, culminating in a strategic recommendation that cut costs by 5%.

Projects

Sentiment Analysis with Scraped Obituaries - 07/2023

- Developed python scripts to extract over 27,000 obituaries from a local publication's website.
- Implemented NLP vectorization, Lemmatization, VADER sentiment model, and KMeans clustering to identify overall sentiment of a person's obituary.

Identification of Malware with Source Code - 05/2020

- Designed and implemented image recognition deep learning algorithms, achieving an accuracy of .90 when classifying programs as malware based on the program's byte code converted into RGB images.