Filiberto Aguilar Mata

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Summary

Aspiring data scientist experienced in R&D diagnostic analyzers and customer support as an engineering technician. Excel in multidisciplinary team environments. Greatly experienced in Python, data wrangling, EDA, and machine learning. Looking to transition into a data-oriented position in healthcare or any philanthropic field to help optimize data digestion for the benefit of others.

Education

SPRINGBOARD DATA SCIENCE TRACK

Data Science Certification   *November 2020*

UNIVERSITY OF NORTH TEXAS

Bachelor of Science, Biomedical Engineering   *May 2018*
- GPA: 3.8

Skills

Technical	: Python, SQL, Data Cleaning, Data Analysis, Feature Engineering, Modeling, NLP, Web Scraping
Packages	: Pandas, Numpy, Matplotlib, Seaborn, Scipy, Scikit-Learn, BS4, NLTK
Statistical	: Classification, Regression, Clustering, Hypothesis Testing

Projects

Sentiment Analysis of Game Reviews by Game Genre   *October 2020 – November 2020*
- Created a binary classification model to predict user sentiment on games released for major gaming consoles. Model achieved a final balanced accuracy of 84%.
- Implemented various NLP techniques for text pre-processing such as stop word filtering, lemmatization, POS tagging, etc.
- Scraped over 20,000 reviews for all games with 15+ reviews on Metacritic for three gaming consoles: Xbox One, PlayStation 4, Nintendo Switch.
- Inspiration: curious of what gamers felt towards games I enjoyed and disliked.

Personality Profile Nicotine Consumption Risk Assessment   *July 2020 – September 2020*
- Created a binary classification model to predict a person's risk of smoking based on their OCEAN personality traits.
- Best model had an AUC = 0.81. F beta scored adjusted optimizing recall (99% recall accuracy to 70% precision) to reduce the number of predictions of actual smokers as non-smokers, ensuring at risk individuals were not missed.
- Inspiration: smoking is the leading cause of preventable death in the U.S. and personal intrigue of personality traits/tests.

Experience

ABBOTT LABORATORIES

Engineering Technician   *July 2018 – Present*
- Daily use of Python scripts for electro-mechanical troubleshooting, measured various electrical measurements and logged all services in a proprietary ticket database. Completed on average 25-30 tickets a week.
- Responsible for helping improve reliability of Alinity s, c and i analyzers.
- Performed 8 preventive maintenance procedures per quarter with a month's time constraint, each PM on average requires 4-5 days to complete.
- Participated in software stress testing before the release of a new software version.
- Support verification testing by assisting systems integration personnel with instrument errors, part upgrades, RV weighing, testing setup, etc.

DALLAS MAKERSPACE

R&D Intern   *September 2016 – March 2017*
- Researched automated tracking systems to improve current OR lighting systems.
- Maintained documentation of team meetings and project development to assess if deadlines would be met.
- Tasked with developing simple programming scripts to test the rudimentary prototype.