**Filiberto Aguilar Mata**

Email : [filiaguilar03@gmail.com](mailto:filiaguilar03@gmail.com) Github : github.com/filiaguilar  
Cell : (214) 527-4330 LinkedIn: linkedin.com/in/filiberto-aguilar-mata-00ba03134/  
Location : Dallas, TX 75217

# 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.