BRANDON SHARPE
Data Scientist

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TECHNICAL SKILLS

Python- SQL- Natural Language Toolkit - Scikit-learn -SciPy -Pandas -Matplotlib -Natural Language Processing -Data Storytelling -Jupyter Lab -Anaconda - Tableau -Seaborn - BeautifulSoup -Git - Machine Learning

EXPERIENCE

Clearance:
Inactive- Secret | 2013-2020

Work Center Supervisor / Fire Control Tech.
U.S Navy | Feb 2013 - Nov 2019
Trained and qualified 22 new sailors in the operation and technical skills needed to troubleshoot and repair electrical, electro-mechanical, and radar faults of multi-millon dollar missile systems leading to a team of organized technicians armed with the skills to succeed.
Devised and implemented a plan for 6000 man-hours of maintenance to be accomplished by eight personnel semi-annually leading to 97% operational up time of vital self defense weapons systems

Lead Maintenance Technician
Mueller Martini | Jan 2020 - Jun 2020
Led and oversaw, and performed all planned and corrective maintenance actions of a small team of technicians for Amazons conveyers and book binding machinery. Paramount to an overall productivity rate of 95% with minimal down time

EDUCATION

Codeup
Certificate of Completion
June 2021 - December 2021

Fully-immersive, project-based 22-week career accelerator that provides students with 670+ hours of expert instruction in applied data science. Students develop expertise across the full data science pipeline (planning, acquisition, preparation, exploration, modeling, delivery), and become comfortable working with data to deliver actionable insights to diverse stakeholders.

Tarrant County College
Associate of Arts
June 2020 - Expected Graduation May 2022

PROFESSIONAL SUMMARY

Data Scientist and US Navy veteran with a diverse background in troubleshooting, electronics, and leadership. Highly adaptable tech savvy professional, with training received from a 22 week immersive data science bootcamp, and currently in pursuit of a Bachelors in Computer Science. I am inquisitive in nature and strive to solve any problem in my path.

DATA SCIENCE PROJECTS

Discovering Drugs
A Chemical Compound Analysis for Fighting Diseases
Capstone Project
The project goal is to predict the effectiveness of chemical compounds for treating a disease. This prediction can be used to pre-screen drugs before expensive and time-consuming lab experiments. This is especially important considering that, on average, only 9% drugs get approved by the FDA per year and the cost of bringing a new drug to market is estimated to be $ 2.6 billion, much of which is spent on testing drugs that may have little to no effectivity.The project is being made in a fashion to except any diseaseas an input. Estimated completion of project is Dec 2021.

Github Readme NLP
Natural Langúage Processing
Group project where we utilized web scraping techniques to obtain data from GitHub repositories' readme contents. Conducted NLP exploration and created multiclass classification models to accurately predict the programming language of the stripped data with an 62% overall accuracy. Project was coordinated and updated with strict version control. Personally I oversaw model iteration, recursive feature enineering and model performance.

Data is Magic
Classification Model/ NLP
Created a Machine Learning model using Support Vector Classification to accurately classify over 10,000 Magic the Gathering cards into one of five different color groupings with 80% accuracy . Acquired the data through the mtgjson api, which was then cleaned and prepped using multiple NLP techniques including vectorization and stemming. The project was presented via a Jupyter Notebook

Time Series Weather Analysis
Time Series Analysis
Used global weather data to predict 13 years of temperatures for Australia which was accurate within 1.8 degrees Fahrenheit using previous cycle data for predictions. Project was an end to end project collecting the data from a csv, cleaning, prepping, analysis and modeling. Results were documented and takeaways were communicated via Jupiter Notebook.

Zillow Tax Value Prediction
Regression Model
Used Zillow property data to predict tax valuations of properties for sale on the website. Data was obtained using MySQL and manipulated with Pandas and NumPy. Scikit-learn was used to create a polynomial linear regression model that predicted valuation within a range of $310,000 of the actual price. Results and takeaways were communicated to peers in the form of a report and presentation.