CHARLIE YARIS
DATA SCIENTIST

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EDUCATION

Washington University in St. Louis
Bachelor of Arts 2016
Psychological & Brain Sciences

General Assembly
Certification 2017
Data Analytics, Professional Development Course

SKILLS

CODING LANGUAGES: Python3, SQL, JavaScript, HTML, Regex
ANALYSIS & MODELING: Scikit-Learn, Imbalanced-Learn, Pandas, Numpy, Facebook Prophet, NLTK, Gensim, Nosetests
STATS & MACHINE LEARNING: Cross-Validation, Dimensionality Reduction, Linear Modeling, Ensemble Methods, Unsupervised Clustering, Bayesian Inference, Natural Language Processing, Topic Modeling, Recommender Systems, Network Analysis
DATABASE MANAGEMENT: AWS, MongoDB, PostgreSQL, pgAdmin
DATA VISUALIZATION: Tableau, D3.js, Matplotlib, Plotly, Seaborn, Flask, Microsoft Excel
WEB SCRAPING: Scrapy, Beautiful Soup, Requests

EXPERIENCE

METIS DATA SCIENCE BOOTCAMP
Chicago, IL
Data Science Certification
July 2018 to Dec. 2018

- Metis is an ACCET-accredited immersive data science bootcamp with a project-based curriculum.
- Advanced training in Python, statistics, database management, and both supervised and unsupervised machine learning.
- Designed and executed five projects that required data collection, analysis, modeling, visualization, and presentation.

HIGHEREDUCATION.COM
Seattle, WA
Marketing Analyst
Feb. 2017 to Feb. 2018

- Used PostgreSQL to build target segments for 10 email marketing campaigns per week.
- Wrote macro functions to automate the marketing workflow, increasing efficiency by 100%.
- Delivered monthly quantitative reports to assess progress of email marketing campaigns.
- Conducted audience research to promote web page content through email marketing campaigns.

COLUMBIA CITY THEATER
Seattle, WA
Data and Marketing Intern
Aug. 2016 to Dec. 2016

- Led 50 ad campaigns that were optimized through A/B testing.
- Recommended website changes to improve visibility and accessibility.
- Began a weekly promotion that doubled rate of impressions and increased growth rate by 350%.

PROJECTS

PYTHON AND JAVASCRIPT - INTERACTIVE TIME SERIES MODELING

- Developed an interactive data visualization tool written in Javscript with D3.js to predict gun violence across the US.
- Built an ETL pipeline with Python that automated the process of scraping new data points and integrating them into the data tool.
- Used Facebook Prophet to generate time series models with varying degrees of complexity.
- Included several functionalities in the data tool to dynamically compare differences between time series models.

PYTHON AND JAVASCRIPT - OBJECT ORIENTED PROGRAMMING

- Built the board game "Mastermind" into two interactive computer games.
- Version 1 written in Python for the command line using object-oriented programming.
- Version 2 written in Javascript with D3.js and published on my website.
- Used Nosetests for unit testing in Version 1 to validate the expected outputs of class methods.

BINARY CLASSIFICATION

- Predicted the outcomes of court cases with Scikit-Learn using logistic regression and CART models.
- Implemented upsampling methods from Imbalanced-Learn to account for an unbalanced dependent variable.
- Used results to determine most impactful coefficients for predicting conviction type.

NATURAL LANGUAGE PROCESSING

- Performed topic modeling on "Les Propheties" by Nostradamus and visualized topic distributions in Tableau.
- Extracted three primary topics from "Les Propheties" with Scikit-Learn's truncated SVD method.
- Enabled 2-D visualizations using Scikit-Learn's PCA method by reducing topic distributions into two principal components.