CHARLIE YARIS
DATA SCIENTIST

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EDUCATION

Washington University in St. Louis
Bachelor of Arts Psychological & Brain Sciences 2016
Dean's List Recipient

General Assembly
Certification Data Analytics 2017
Professional Development Program

SKILLS

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

EXPERIENCE

METIS
Data Scientist
Chicago, IL
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
Marketing Analyst
Seattle, WA
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.

SR EDUCATION GROUP
Web Content Contractor
Kirkland, WA
Dec. 2016 to Feb. 2017
- Assisted the marketing team by sorting through 650 prospects and identifying target audiences.
- Conducted backlink research to choose new prospects for future marketing campaigns.
- Optimized the search algorithm of JobComet.com by researching and mapping keywords to 275 job categories.
- Updated HTML structure to ensure strong SEO signals, fixed broken links and checked for proper tagging.

COLUMBIA CITY THEATER
Data and Marketing Intern
Seattle, WA
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

LINEAR MODELING
- Performed web scraping with Scrapy to collect merchandising and molecular data on prescription drugs.
- Predicted United States consumer drug prices with Scikit-Learn using multiple linear regression.
- Used results to determine most impactful variables on prescription drug prices.

BINARY CLASSIFICATION
- 93% of all guilty sentences in Cook County, IL are the result of a guilty plea.
- Predicted conviction type for guilty defendants with Scikit-Learn using logistic regression and CART models.
- Implemented upsampling methods from Imbalanced-Learn to account for an unbalanced dependent variable.

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.

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.