Stanley Yu

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Work Experience

Business Analyst   Aug 2021 - May 2022
Hartford Healthcare   Hartford, CT

- Built surveys using REDCap to support colleagues with data collection for studies, qualitative assessments, and to document prodecures and patient intake.
- Contributed data analysis for the Digestive Health Institute (DHI) with Python/R code.
- Developed methods to automate, improve, and evaluate data collection, reducing monthly reports from a one-week process to a three day affair.
- Suggested improvements to existing reporting process by developing custom SQL code.
- Developed Tableau and R Shiny dashboards for data analysis.

Volunteer Data Analyst   May 2021 - June 2021
Tech For Campaigns   Remote

- Volunteered in the successful 2022 re-election campaign of Schuyler Van-Valkenberg to the Virginia House of Representatives.
- Developed data collection processes in Python and R to gather email marketing data from NGP Van and Act Blue using Python and R for analysis.
- Raised over $20,000 to re-elect Schuyler Van-Valkenberg.
- Evaluated email marketing data to assess overall performance of email campaigns, post-election.

Internship   Jan 2018 - Aug 2018
Human Rights Campaign   Washington, D.C.

- Collected data on HRC members to solicit for turnout and donations using SQL and R.
- Explored the implementation of decision tree algorithms to develop more targeted approaches to soliciting support.

Projects

Document Classification of Electronic Health Records   Aug 2020 - Aug 2021
Supervised Machine Learning Project at Hartford Healthcare

- Created Naive Bayes, Logistic Regression, and Feed Forward Neural Network classifiers written in Python to classify doctor's notes by category of ejection fraction (heart volume) measurement with F1 Scores greater than 90 percent.
- Used SQL and Pandas to prepare datasets for training and testing models.
- Wrote scripts to preprocess data by vectorizing text and used under and over sampling methods to create a balanced training data set.

Education

Master of Science: Data Science   Aug 2018 - May 2020
Northeastern University   Boston, MA
Courses: Supervised and Unsupervised Machine Learning, Statistics, Linear Algebra, Regression Analysis

Bachelor of Arts: International Relations   Aug 2010 - May 2014
Boston University   Boston, MA
Courses: International Relations Theory, Political Economics, Modern Chinese History, Mandarin

Skills

Programming	Python, R, JavaScript, SQL
Software	git, R Studio, Tableau, Epic EMR
Libraries	Shiny, tidyverse, Pandas, NumPy, sklearn, Django
Certifications	Epic EMR: Clinical Data Model
Foreign Language	Mandarin
Other Coursework	Multivariate Calculus for Machine Learning, Principle Components Analysis