Kevin Macias-Matsuura

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Data Scientist

Burgeoning Data Scientist with a strong interest in the intersection of pedagogy, technology, and language. As a former NYC English teacher, the DOE's policies of data-driven workflows bolstered my repertoire of communicative and analytical skills. Driven to utilize data collection and analysis, using statistical and Natural Language Processing frameworks, to drive insight and present data to people with a range of data literacy.

TECHNICAL SKILLS

Python, SQL(PostgreSQL & DB2), Scikit-learn, NumPy, Pandas, Keras, Selenium, BeautifulSoup, HTML, CSS, NLTK, Word2Vec, Spacy, Javascript, Gensim, VADER, Statsmodels, Scipy, Tableau   --->   (Currently Learning: D3.js)

TECHNICAL PROJECTS

Measuring School/Community Satisfaction - Github
Topic modeling and sentiment analysis of NYC public school comment boards to unearth topics of concern
- Web-scraped over 22k comments from insideschools.org
- Cleaned and processed raw text for input into machine learning models
- Developed visualization to explain user behavior and distributions of topics of concern
- Created sentiment scores for individual schools in NYC to represent community satisfaction

Investigating Terry Stops - Github
Investigates bias in the Seattle Police Department's publically available policing data
- Implemented binary classifier to predict if a stop ends in an arrest
- Engineered features for dataset of 28k incidences to input in model
- Optimized model parameters with GridsearchCV
- Minimized bias by utilizing context appropriate metrics to evaluate models

Inquiry Into School Attendance Rates - Github
Analyzed factors affecting student attendance rates for elementary and middle schools in NYC
- Collected and parsed various types of data from NYC's annual School Quality Report
- Applied a linear regression model to analyze factors that contribute to poor attendance
- Utilized statistical testing and model evaluation to determine statistically significant variables
- Highlighted and reduced multicollinearity through data visualizations and testing

EMPLOYMENT HISTORY

English Teacher, **PS 34 - Franklin D. Roosevelt**, NYC, NY   09/2015 - 09/2018
- Developed and led presentations sharing technology-educational tools
- Improved overall student state testing outcomes

English/History Teacher, **MS 319 - Maria Teresa Mirabal**, NYC, NY   07/2014 - 09/2015
- Taught dual language classes in both English and Spanish
- Analyzed and adapted curriculum to fit pertinent classroom settings

Teacher's Assistant, **Young Women's Leadership School**, NYC, NY   03/2014 - 06/2014
- Researched and co-authored classroom unit on debate and logic
- Collaborated with mentor to create and execute curriculum, lessons, and activities

EDUCATION

Flatiron School, New York, NY   08/2020
Immersive Data Science Bootcamp program

St. Johns University, Queens, NYC   01/2016
M.S. Education

University of California San Diego, San Diego, CA   06/2013
B.A. Literatures in English, Honors With Highest Distinction