

Mariam Yousuf

mariam123@gmail.com • 408.674.5388 • Saratoga, CA 95070 • [LinkedIn](#) • [GitHub](#) •

Data Scientist

EDUCATION

University of California, Davis • *Ph.D. in Economics (on leave)*

SEPTEMBER 2015 - CURRENT

All but dissertation. Coursework in macroeconomics, international, and economic history

University of California, Davis • *Master of Arts in Economics*

SEPTEMBER 2015 - MAY 2016

University of California, Berkeley • *Bachelor of Arts in Applied Mathematics & Economics*

September 2008 - May 2012

CORE COMPETENCIES

PYTHON: Pandas • NumPy • Scikit-learn • Matplotlib • BeautifulSoup • Selenium • NLTK •

MACHINE LEARNING: Linear/Probit Regression • Classification • Clustering • Natural Language Processing •

CAUSAL INFERENCE Instrumental Variable Regression • Difference-in-Differences • Regression Discontinuity •

OTHER: SQL • Stata • Git • LaTeX - Beamer •

EXPERIENCE

METIS DATA SCIENTIST **REMOTE LIVE**
Jan. 2021 - March 2021

Analyzing the narrative changes in articles written about George W. Bush and Hillary Clinton

- Scraped article abstracts from the NYTimes API using Python
- Used SkLearn, NLTK to model topics on the two corpuses and track changes in frequency of topics over the last two decades
- Trained a word2vec model using Gensim and analyzed semantic similarities between words

Analyzing Language on EconTwitter

- Used BeautifulSoup to scrape Twitter usernames of economists from an online directory, RePEc, and then used Twint to scrape tweets from those usernames
- Modeled topics using SkLearn and NLTK

Predicting 2016 Election Results by County

- Used labor statistics from the Bureau of Labor Statistics accessed through Google BigQuery, to predict election results by county
- Used SkLearn and XGBoost, to train and test various classification algorithms

Predicting Reviews of Moisturizers on Sephora.com:

- Scraped Sephora's dynamic webpage using BeautifulSoup and Selenium for product information
- Used a LASSO regression try and predict reviews based on product characteristics

UNIVERSITY OF CALIFORNIA, DAVIS **DAVIS, CA**
Sept. 2015 - Dec.2020

TEACHING ASSISTANT

- Prepared and led discussion sections twice a week
- Graded exams and assignments
- Classes included Economic History Pre- and Post-Industrialization, Labor Economics, International Economics, Development Economics, Intro to Micro, and Intro to Macro.

C2 EDUCATION **SARATOGA, CA**
Sept. 2013 - June 2015

TUTOR/CENTER DIRECTOR

- Served as a tutor for ACTs/SATs and high school math and was then promoted to manager of the tutoring center