Olivia McCargar

oliviamccargar@gmail.com   www.oliviamccargar.com   916-384-8577

Recent Projects

TransPop Survey Data Dashboard
- Survey Data processed and cleaned for model building and analysis in R for proof of concept
- Dashboard created in Python using Dash, with Django for web framework
- Cleaned data made accessible for separate analysis
- Containerized using Docker, hosted on AWS
- Full process outlined on my website including thought process for cleaning, imputation of missing values, class assignment, model building and assessment, and productionizing

Twitter Public Health Sentiment Analysis
- Web mining and analysis done in R
- Downloaded data on a cross section of news and health organizations' "high influence" followers. The tweets of these high influence followers were cleaned and then analyzed for sentiment for comparison and tested for significance
- Results and process report available on my website including access to the anonymized data

StageSource 2019 Census Analysis
- Data cleaned in Python and moved into a SQLite relational database for future census comparisons and analysis, to accommodate changes in survey questions with overlapping and comparable data
- Contracted summer 2020, Analysis performed on cleaned data in R and initial findings presented in January 2021 to stakeholders. Full report indefinitely postponed by stakeholders following meeting
- Postmortem and initial report available on my website, data withheld for privacy of respondents

Relevant Skills

- Programming/ scripting languages: C++, C#, JavaScript, HTML, CSS, PHP, R, Python, SQL
- Frameworks/ Libraries: SCSS, Node.js, Tidyverse, Pandas, Numpy, Dash, Django
- Other development tools: Linux CLI, Docker, Git, AWS (basics)

Relevant Work Experience

Data Analyst – StageSource, Inc. (November 2020 – Present)
- Provide technical consulting and data analysis on a volunteer, as-needed basis to support the mission of the non-profit
- Overhauled census process and am actively working towards a permanent income reporting tool to streamline the data gathering, allow for up-to-the minute reports via a live dashboard

Education

Master of Science in Computer Science, focus on Data Analytics
Boston University Metropolitan College, January 2023

Bachelor of Arts in Sociology
Boston University College of Arts and Sciences, May 2011 (Summa Cum Laude)