Wesley Chang

Master's in Data Science @ UC Berkeley

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PROJECTS

TWITTER SENTIMENT ANALYSIS (IN PROGRESS) | Python, TensorFlow, SQLite
- ➜ Skills Demonstrated: neural networks, feature engineering
- ➜ Classification of tweets; predicting negative, neutral, or positive sentiment using a neural network built with TensorFlow and Keras.
- ➜ Planning to test final model against other similar user inputted text, such as product reviews and Reddit posts in order to get an idea of model generalizability.

WINE SCORE PREDICTION | R, RMarkdown
- ➜ Skills Demonstrated: regression modeling and analysis
- ➜ Created a linear regression model to predicted qualitative wine scores on a sample of rankings from the UCI Machine Learning repository.
- ➜ Evaluated assumptions needed to ensure accurate model outputs, as well as identified limitations in the data that introduce possible biases.

ADVENT OF CODE SCRAPER | Python
- ➜ Skills Demonstrated: web scraping, project organization, token authentication
- ➜ Script that scrapes prompt files and data files for the Advent of Code challenge website. Allows for user-specific data files to be pulled by inputting a user's authorization token and user name.
- ➜ Takes command-line input for multiple options, as well as taking input from a JSON configuration file.

EXPERIENCE

RESEARCH ASSISTANT | Behavioral Economics and Decision Making Lab
Sep 2021 – Mar 2022 | University of California, Riverside

- ➜ Served as research assistant under Professor Ye Li and Professor Michael Haselhuhn, studying temporal discounting and human judgment.
- ➜ Aided in statistical interpretation and analysis of data and other supplementary tasks.
- ➜ Presented on research methods used in consumer psychology and behavior economics (mediation/moderation analysis).

STUDENT FINANCE DIRECTOR | UCR Alumni Association
Jan 2020 – Jan 2021 | University of California, Riverside

- ➜ Served as a liaison between campus administrators and SAA, representing the organization externally at hearings with ASUCR and ASPB, and representing the Finance Committee internally at Executive Committee meetings.
- ➜ Assured that the organization stayed within budget and maintained a healthy financial status by serving as the authorized signer for ASUCR reimbursements, submitting requisition forms for events, and ensuring compliance with all UCR procedural and financial policies.
- ➜ Realized Finance Committee efforts to reach out to local companies to secure event sponsorships and meet fundraising goal of $3000 through weekly student-directed fundraisers.

SKILLS

PROGRAMMING

Proficient:
Python • R (and RMarkdown) • SQL

Familiar:
bash • C++

LIBRARIES/FRAMEWORKS

pandas • NumPy • scikit-learn • TensorFlow • tidyverse • SQLite

TOOLS/PLATFORMS

Git • Docker • PostgreSQL • Neo4j • Linux CLI • AWS

OTHER

Regression Analysis • Tableau • Excel

EDUCATION

MASTER'S IN DATA SCIENCE

University of California, Berkeley
Aug 2022 - Present | Berkeley, CA

BA, ECONOMICS AND STATISTICS

University of California, Riverside
Sep 2017 - Mar 2022 | Riverside, CA
Major GPA: 3.9 / 4.0

COURSEWORK

GRADUATE

Machine Learning
Data Engineering
Research Design
Statistics for Data Science

UNDERGRADUATE

Probability Theory
Nonparametric Statistics
Econometrics
Database Management
Data Structures and Algorithms