

CONTACT

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SKILLS

PROGRAMMING LANGUAGES: python, javascript, html/css, SQL, Git

LIBRARIES: pandas, numpy, scrapy, sklearn, Tensorflow, Keras, Flask, gutenber, gensim, NLTK, RiotWatcher, music21

VISUALIZATION: SHAP, d3js, matplotlib, seaborn, Tableau, HTML

MACHINE LEARNING: Linear Regression, Classification, Natural Language Processing, Neural Networks

CLOUD AND DATA STORAGE: AWS (AmazonLightsail), MySQL

LANGUAGES: English (native), Mandarin (fluent)

EDUCATION

Wesleyan University Sept. 2016 to May 2019
B.A. Chemistry 2019

AWARDS

Elizabeth von Tishler Prize for Piano Performance, 2nd place Apr. 2019
A prize awarded for exemplary piano performance, video

Ye Scholarship June 2018
A full-ride scholarship to study Mandarin for 3 months at 'Princeton in Beijing', Beijing, China

EXPERIENCE

Metis

Data Scientist

Remote

Jan. 2021 to Mar. 2021

- Metis is an intensive 12 week immersive data science bootcamp focused on project oriented learning
- The core curriculum is centered around Python, statistics, supervised and unsupervised machine learning, exploratory data analysis, databases, and visualization techniques
- Completed five self designed data science projects from conception to presentation; including data collection, data management, exploratory data analysis, modeling, and visualizations

Genentech

Pharmacovigilance Associate

South San Francisco, C.A.

Jan. 2020 to Jan. 2021

- Independently built d3js, Google Apps Script (js/html) web apps, and VBA scripts to automate processes, saving 200+ work hours
- Presented to and worked with interdisciplinary teams to integrate automation into workflows
- Fostered Tableau integration with Google Sheets

PROJECTS

kitchen soundscapes

- Neural network to produce sound from kitchen objects, using my own compositions as a basis
- Built a fully functional Flask web-app on AWS to stream music

liamometer

- Movie-rating system for a world where people only value international movies from small studios
- Scraped & cleaned ~30k rows of movie data from 2016-2020 from IMDB, Metacritic, Rotten Tomatoes using the scrapy web-crawling framework
- Used LASSO/RIDGE CV Linear Regression to build an interpretive model for IMDB ratings
- Built a fully functional Flask web-app on AWS to display the "liam-o-meter" ratings for movies

liam.gg

- Win-interpreter for League of Legends matches for each user
- Scraped & cleaned ~100-200k rows of data via Riot API (RiotWatcher)
- Built a logistic regression classification model off of filtered source data (for champion, rank, oversampled user data) that runs for each match in your account's recent history
- Used SHAP to articulate the 'black-box' model structure
- Built a fully functional Flask web-app on AWS to display recent games, statistics, and SHAP plots

Petrarch's Language

- Word2Vec model of Petrarch's Canzoniere as to suggest his misogynistic world views
- Scraped/cleaned data using gutenber
- Built a Word2Vec model using gensim
- Used PCA, Tensorflow to visualize in 3-dimensions the co-occurrence between words used by Petrarch as to suggest symbolism in his poetry