

Weiling Li

DATA SCIENTIST

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Education

Boston University

MASTER OF SCIENCE IN STATISTICAL PRACTICE, CURRENT GPA: 4.0

Boston, MA, USA

2019-2020(Graduating May, 2020)

University of Connecticut

MASTER OF SCIENCE IN MECHANICAL ENGINEERING, GPA: 3.9

Storrs, CT, USA

2015-2016

Experience

FindingSchool.com

BUSINESS ANALYST - DATA SCIENTIST

Woburn, MA

2017 - present

- During 2017-2019, oversaw US private highschool ranking and evaluating project
- Designed ranking & grading models for the project, performed raw data wrangling, missing data imputation and yearly model maintenance
- Built a basic data collecting infrastructure for user behavioral analysis, including search word recording, categorize user's browsing history and user's website usage pattern recording
- Designed A/B testing framework for the page recommendation project and proposed testing metrics

Projecting Mutual Fund's Net Asset Value

LEAD IN STATISTICAL MODELING & CODE IMPLEMENTATION - MSSP PARTNER PROJECT WITH FIDELITY INVESTMENTS

Oct 2019 - present

- Proposed statistical models for analyzing the problem
- Established a uniform procedure and a unified code for each team member
- Used bootstrap elastic net regression from HDCL package for feature selection, implemented alternative elastic net regression with time domain cross-validation function for further analysis

Geospatial Cluster Analysis of Restaurants in Boston and San Francisco

FINAL PROJECT - MSSP R LANGUAGE COURSE PROJECT

Nov 2019 - Dec 2019

- Used Yelp Fusion API to implement functions to request data from yelp.com
- Analyzed the raw data and performed cluster analysis using gaussian mixture model, the clustering results were validated by comparing them to the actual geographic planing of the two cities
- Built an R shiny app to demonstrate findings. The application combines maps and analysis to show how restaurants cluster by cuisine and geographic area. link to the published shiny app: https://weiling.shinyapps.io/Final_Project/

Testing Clinicians' Attitude towards Animal Assisted Therapy

TEAM LEADER, DATA ANALYZING & RESULT VISUALIZATION - MSSP STATISTICAL CONSULTING PROJECT

Oct 2019 - Nov 2019

- Implemented R codes for analyzing the data and visualizing the results
- Helped client understand the concept of hypothesis tests and the interpretation of the test results

Loan Charged-off risk analysis and the potential effect of high interest rate

FINAL PROJECT - MSSP STATISTICAL MODELING COURSE PROJECT

Nov 2019 - Dec 2019

- Built a multilevel logistic regression model which can correctly estimate the risk of delinquency given the credit history at the point of the loan application
- Interpreted model coefficients and explored the risk of the high interest rate

Predict Airbnb Prices

FINAL PROJECT - MACHINE LEARNING CONTEST PROJECT

Nov 2019 - Dec 2019

- Implemented gradient descent and Ridge regression algorithm to train a predictive model using only numpy and pandas

Technical Skills

R, Python, SQL, SCC, MATLAB, C++

- Proficient in R, able to perform statistical modeling and deliver reproducible output with Rmarkdown and R shiny
- Have experience with SQL database, able to query SQL using R ODBC package
- Understand the framework of sparklyr, able to manage big data
- Proficient with machine learning using Python, implemented gradient descent, k-means, kernel SVM, ANN and CNN using cvxopt, sklearn and TensorFlow
- Experienced in using MATLAB to perform routine data analysis work including visualization, simulation, etc