Noah Rezsonya

Personal Info

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GitHub
https://github.com/nuoyakang

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Skills

Data Mining Skills
Linear Regression
ANOVA, MANOVA
Logistic Regression
Support Vector Machines
k-Nearest Neighbors
Naive Bayes
Random Forests
Ensemble Methods
PCA, LDA
k-Means, DBSCAN
Agglomerative Clustering
Spectral Clustering
Association Rule Mining

Analysis Tools
Python: pandas, numpy, scikit-learn
R : ggplot2, rvest, XML, RCurl, plyr, xtable, kableExtra, forecast, olsrr, caret
SAS, MATLAB

Relational Database
MySQL workbench
MongoDB

Data Vizsualization
Tableau
Python : seaborn, matplotlib

Education

08/2017 - 08/2019	**Southern Methodist University: Dallas, Texas USA** Master of Science, Data Science I Current GPA 4.0 Online Program
07/2009 - 02/2014	**University of New South Wales: Sydney, Australia** Bachelor of Civil Engineering

Completed Data Science and Machine Learning MOOCs on Udemy, AWS Education and Coursera. Certificates available via LinkedIn profile.

Experience

10/2015 - 08/2016	**Post-Graduate Structural Intern : Chongqing, China** *JizhunFangZhong Engineering and Architecture* • Optimize and maintain database of steel design parameters and costing. • Using steel design database to track installation status to assist in procurement and construction sequencing. • Drafting and design of structural details.
05/2014 - 11/2014	**Executive Assistant Intern : Sydney, Australia** *Harman Global Holdings* • Assist in the development of client database to document transactions, market trends and client requirements to streamline sales and marketing strategies. • Assist in the creation of a new user interface to manage incoming data, provide legible and concise feedback from previous client interactions.

Projects

10/2017 - 02/2018 *Regression Project*	**Housing Price Prediction** • Data has 79 explanatory variables describing (almost) every aspect of residential homes in Ames, Iowa. • Predict the final sale price of each home. **Skills Used:** R, Statistical Imputation, Linear Regression, Regression Model Selection.
02/2018 - 05/2018 *Classification Project*	**Classify Kobe Shots** • Using 20 years of data on Kobe's swishes and misses to predict which shots will find the bottom of the net. **Skills Used:** SAS, Statistical Imputation, Logistic Regression, Linear Discriminant Analysis.
02/2018 - 05/2018 *Database Project*	**Working with streaming data: Mining Twitter Data with Python and MongoDB** • Streaming tweets using Twitter REST API. • Compare design considerations: Real-time vs. Batch. **Skills Used:** Python, MongoDB
05/2018 - Present *Classification, Regression, Clustering, Association Rule Project*	**Data Mining Using North Carolina High School Data** • Leveraging historical, secondary data collected from high schools in the state of North Carolina to investigate what factors influence high school performance. **Skills Used :** Python scikit-learn, Linear Regression, Logistic Regression, Random Forest, k-NN, SVMs, k-Means, DBSCAN.