

EDUCATION

University of California, Berkeley, B.A Mathematics with Concentration on Statistics Expect Dec 2017

Fall 2017 Courses: Machine Learning, Nonparametric Inference and Sensitivity Auditing, Applied Data Science With Venture Application, Abstract Algebra

Irvine Valley College, A.S in Mathematics

May 2015

TECHNICAL SKILLS

- Programming Languages:
 - Most experienced with: Python, R, SQL, HTML, CSS, Matlab
 - Familiar with: C++, C, Scheme, Spark, XML, LaTeX
- Tools/Frameworks: Jupyter Notebook, pandas, numpy, scikit-learn, Git, H2O, SPSS, QuickBooks
- Language: Vietnamese, French

PROJECTS

- **Predictive Policing Via Social Harm Optimization**
 - Visualized and detect crime hotspots from 200000 crime data in 2012-2013 in Indianapolis using kernel density estimation
 - Predicted crime occurrence using machine learning algorithms which minimize the social harm cost four times less than the current method used by IMPD
 - Forecasted the trend and seasonality of spatial-temporal features using time series approach
 - Utilized OpenStreetMap database to extract spatial featuresTeam members: Elvis Nunez
- **Boyd Corporation Scorecard Database**
 - Designed a database prototype for Boyd Corporation to transform disparate Excel spreadsheets into a single automatic updated database.
 - Utilized regression methods to predict the inventory price to reduce expense in purchasing process
 - Designed a suggestion algorithm to match client's order with supplier's capability to improve company's efficiency in fulfilling order
 - Provided a visualization of models using Voronoi diagram and graphviz tool
- **Kaggle House Price Prediction: Advanced Regression Techniques**
 - Utilized summary statistics and graphs to process a complex data set
 - Examined principle component analysis to reduce the complexity of the dataset
 - Detected outliers, processed and transformed data to implement machine learning models

EXPERIENCE

- **Research Assistant, University of California, Berkeley, CA** February 2017 - June 2017
 - Assist in building R-package to estimate the posterior distribution of hydrogeological parameters
 - Assist with the development of the database gathering hydrogeological and thermal parameters in the hyporheic zone
 - Contribute to the discussion around the integration of machine learning algorithms to develop criteria for site similarity
- **Corporate Assistant, The Tech Center, Santa Ana, CA** March 2013 - Present
 - Design and maintain a return procedure system that reduced purchasing expense in three years period
 - Supervise, provide instruction, assign tasks to technicians in different facilities while working remotely
 - Establish strong rapport and negotiate pricing with suppliers to reduce expenditures
 - Identify operational problems and develop practicable solutions to achieve a positive return
 - Collaborate with lead technicians to facilitate orders to meet customer expectations and specifications

ACTIVITIES

- Presented "Bitcoin: A Setting Stone for the Future of Money or a Threat to The Economy?" at the Fifteen Annual Honors Transfer Council of California (HTCC) Student Research Conference (2014)
- Organization: Phi Theta Kappa Honor Society (Member), UC Berkeley EOP STEM (Member)