

# My Dinh

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## 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, SPSS, QuickBooks
- Language: Vietnamese, French

## PROJECTS

- **Predictive Policing Via Social Harm Optimization**
  - Predicted the area with the highest crime cost to help Indianapolis police allocate patrol units
  - Implemented machine learning models to predict crime occurrence that capture social cost four times more than the current method used by IMPD
  - Visualized and detect crime hotspots from 200000 crime data in 2012-2013 in Indianapolis using kernel density estimation
  - 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 prior distribution of hydrogeological parameters
  - Assist with the development of the database gathering hydrogeological and thermal parameters in the hyperheic 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
  - Collect and consolidate data into spreadsheets to provide detailed sales reports and technicians' performance
  - 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)