Nathan Lam

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EDUCATION

University of California, Berkeley, CA **Aug 2019 to May 2021**

Bachelor of Arts, Statistics

Relevant Coursework: Probability, Concepts of Stat, Linear Modeling, Intro to Time Series, Stat Prediction and ML, Structure and Interpretation of Computer Programs, Numerical Analysis

De Anza College, Cupertino, CA **Sep 2016 to Jun 2019**

Mathematics

WORK EXPERIENCE

Catalate **Jan 2022 to Apr 2022**

Analyst Intern

- Extracted data using SQL queries and presented them in Excel files
- Detected and diagnosed inefficient pricing anomalies using Excel pivot tables, slicers, scatterplots and time series
- Assessed pricing errors prone to customer exploitation and executed corrections

California Karate Academy **Jun 2016 to Aug 2019**

Assistant Instructor and Office Management

- Instructed classes to teach karate techniques from the fundamentals to advanced techniques for students ages 5 and up and included people with special needs and adults
- Operated office management duties such as writing contracts, handling payments, and providing customer support

SKILLS

Languages: R (caret, dplyr, ggplot2, glmnet), Python (NumPy, Pandas, SciPy), MATLAB

Tools: SQL, Microsoft Office (Excel, Word, PowerPoint), Conda, Jupyter Notebook

PROJECTS

Statistical Forecasting of Covid-19 Cases **May 2021**

Stat 153: Time Series - UC Berkeley

- Forecasted the number of Covid cases using time series analysis in R
- Predictions would help medical centers better prepare to meet demands

Natural Language Processing Analysis of US Legislature **May 2021**

DataGood @ Berkeley - Club

- Performed NLP analysis to summarize state legislature and measure sentiment of each topic in Python
- Analyzing various bills into the model would enhance readability for untrained readers

Random Forest Model **May 2021**

Stat 154: Stat Prediction and Machine Learning - UC Berkeley

- Modeled the severity of car crashes using 3 million data points of raw geospatial data of accidents
- Utilized Python to create data visualizations of various factors to find relationships

Causal Inference Linear Model **Dec 2020**

Stat 151a: Linear Modeling - UC Berkeley

- Identified significant factors of median income based on college majors using linear regression
- Verified the validity of the model through Cross Validation, ANOVA testing, and bootstrapping
- Found that Engineering, Math, and Biology majors are significant factors in determining median income