Eric Liang

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EDUCATION

Carnegie Mellon University   **May 2022**
Bachelor of Science, Double Major in Statistics and Machine Learning, and Computer Science   Pittsburgh, PA
GPA: 3.84/4.00, Dean's List: High Honors
Quantitative Social Science Scholars Honors Program

WORK EXPERIENCE

Introduction to Machine Learning, Carnegie Mellon University   **Aug. 2020 – Present**
Teaching Assistant
- Taught students machine learning topics such as Decision Trees, Linear Regression, Logistic Regression, Naïve Bayes, Neural Networks, Reinforcement Learning, Deep-Q Learning, SVM, PCA, Graphical Models, Kernel Methods, Ensemble Methods, Recommender Systems (AdaBoost) and more
- Led recitation sessions, held office hours, proctored exams, and helped grade assignments and exams

Department of Statistics and Data Science, Carnegie Mellon University   **Aug. 2020 – Present**
Research Assistant
- Assisted with cleaning and analyzing data from Pennsylvania Prison Society to inspect the differing levels of the prisoners' treatment

Applied Quantitative Social Science, Carnegie Mellon University   **Aug. 2019 – Present**
Teaching Assistant
- Guided and taught honor students how to analyze and visualize data using R as well as the methods of empirical research
- Graded papers and case studies that dealt with students analyzing and interpreting public data

NextEra Energy   **May 2020 – Aug. 2020**
Data Science Intern
- Built unsupervised models utilizing UMAP, t-SNE, DBSCAN, KNN, and K-medoids to help cluster customers using big data with both numerical and categorical features
- Built and deployed algorithms utilizing NLP and geolocation that matches addresses to analyze customer data
- Converted IBM COBOL data to CSV and decrypted EBCDIC in Python

Methods for Statistics & Data Science, Carnegie Mellon University   **June 2020 – Aug. 2020**
Teaching Assistant
- Taught students how to clean and model data in R using methods such as ANOVA, multiple regression analysis, etc.
- Covered machine learning topics including logistic regression, binary classifiers, and clustering
- Led recitation sessions, held office hours, proctored exams, and helped grade homework and lab assignments

Behavioral Health Research Laboratory, Carnegie Mellon University   **July 2019 – Dec. 2019**
Research Assistant
- Federally funded research that models social and biological factors in real-world contexts under conditions of alcohol use
- Analyzed various data sets using SPSS from participants, helped run clinical trials, and led several lab meetings

LEADERSHIP & ACTIVITIES

Undergraduate Entrepreneurship Association   **Aug. 2019 – Present**
Head of Technology and Growth
- In charge of leading the technology team to manage the association's website, program necessary functions for events such as the Carnegie Mellon Venture Challenge, and market the club to potential sponsors as well as the community
- Responsible for helping create, coordinate, and acquire funding for the Carnegie Mellon Venture Challenge competition

Carnegie Mellon University Pre-College   **June 2019 – Aug. 2019**
Point Residential Advisor
- Provided supportive counseling for residents and responsible for the safety of all residents
- Responsible for coordinating with other residential advisors in the residential dorm and organizing dorm-wide events

RELEVANT COURSEWORK

Modern Regression	Introduction to Machine Learning	Introduction to Statistical Inference
Statistical Graphics and Visualization	Natural Language Processing	Introduction to Probability Theory
Parallel and Sequential Data Structures	Principles of Functional Programming	Sampling, Survey, and Society

SKILLS

Technical Languages: Python, R, C, Java, SML, SQL