

Eric Liang

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EDUCATION

Carnegie Mellon University

Bachelor of Science, Double Major in Statistics and Machine Learning, and Computer Science

GPA: 3.82/4.00, Dean's List: High Honors

Quantitative Social Science Scholars Honors Program

May 2022

Pittsburgh, PA

WORK EXPERIENCE

Morgan Stanley

May 2021 –

Office of COO: Data & Analytics Summer Analyst

- Incoming Summer Analyst for Morgan Stanley Investment Management

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

- Used NLP and clustering to analyze data from Pennsylvania Prison Society, Correctional Association of New York, and John Howard Association in Illinois to develop cross-state indicators of differing levels in prison quality

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

Applied Quantitative Social Science, Carnegie Mellon University

Aug. 2019 – Dec. 2020

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

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

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

PhD Introduction to Machine Learning

Advanced Methods for Data Analysis

Parallel and Sequential Data Structures

Graduate Artificial Intelligence

Modern Regression

Introduction to Statistical Inference

Natural Language Processing

Statistical Graphics and Visualization

Introduction to Probability Theory

SKILLS

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