Yifan (Eva) Zhong

+1 206-612-3010 | yifanzho@andrew.cmu.edu | https://www.linkedin.com/in/yifan-eva-zhong

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA   May 2021
- Bachelor of Science: Statistics and Machine Learning Major / Computer Science Minor (GPA: 3.77/4)

Relevant Coursework: Intro to Machine Learning (10315); Modern Regression(36401); Probability Modeling(36410); Statistical Inference(36226); Computer Systems(15213); Parallel and Sequential Algorithms and Data Structures (15210, S'20); Data Mining (36462, S'20); Advanced Data Analysis (36402, S'20)

RESEARCH EXPERIENCES

Undergraduate Researcher, Language Technology Institute, Carnegie Mellon University

Project 1: Multilingual speech generation from audio inputs   March.2020 - Present
- Experimenting with multilingual datasets to obtain results of a meta-learning method for few-shot text classification

Project 2: Robust machine learning for natural language processing   April.2020 - Present
- Implementing new methods to generate feature representations for medical texts

Undergraduate Researcher, GroupLens, University of Minnesota   Jan. 2018 - May 2018
- Conducted data analysis (using Python, R, SQL) to evaluate different recommender systems algorithms deployed on a MovieLens, a movie website extensively used for ML research
- Authored and published a four-page research paper (accepted by ACM RecSys) based on analysis of recommender algorithms
- Presented published research findings to 200+ researchers and employers at a Recommender System conference in October 2018
- Programmed in Java and Python to integrate new features of movie tags onto MovieLens's website for tag-based recommendation

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PROFESSIONAL EXPERIENCES

Summer Technology Analyst, Credit Suisse, New York, NY   June 2019 - Aug. 2019
- Developed classification Machine Learning models and implemented Natural Language Processing (NLP) in Python and R to detect errors and anomalies in financial reports to optimize the bank's internal control processes. Presented to 50+ analysts at Credit Suisse
- Developed a supervised classification machine learning prototype to detect credit card fraud transaction using Python
- Worked closely with business analysts and engineers to design solutions for data processing and feature engineering

Teaching Assistant, Girls Who Code Inc. (NGO), New York   June 2017 - Aug. 2017
- Taught 40 high school girls fundamental computer science topics including Python, Web development frameworks and JavaScript
- Supported our partnership with our corporate host Pfizer, and managed the classroom to maintain an inclusive learning environment

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RELEVANT PROJECTS

Student Consultant, Corporate Capstone Project (36497), NPD Market Research Group   Jan. 2020 - Present
- Improving the performance of a Naive Bayes classier to categorize scanned receipts into correct categories
- Conducting Natural Language Processing on item descriptions, employing techniques such as BERT and Mutual Information, TFIDF, and sentence2vec for word embeddings
- Developing and tuning models that could correctly detect errors in the baseline's predictions, including tree-based models, SVM-based models, and regression models
- Supervised by a PhD Fellow, a corporate data scientist advisor, and Statistics faculty

Developer, Data Science Club, Carnegie Mellon University, Pittsburgh, PA   Feb. 2019 - Present
- Training and designing a deep-learning based Reinforcement Learning algorithm to automate the game Tetris developed in Python
- Improved the performance of deep learning models (CNN & RNN) on time series data to measure sleepiness in speech, applying feature engineerings such as PCA and Fourier Transformation

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TECHNICAL SKILLS

- Python(Proficient); R(Proficient); SML(Proficient); SQL(Intermediate); C(Intermediate); Java(Intermediate)

HONORS AND AWARDS

- Nominee of Best Short Paper Submission, RecSys 2018
- REU Summer Fellowship Recipient, NSF
- Dean's List, 2018 Fall, 2019 Spring