JASON LI

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EDUCATION

University of Toronto

2019 - 2023

Honours Bachelor of Science

Mathematics Specialist and Computer Science Major

NOTABLE PROJECTS

Deep Learning Ensemble Methods on Medical Imaging

Apr. 2023

Computer Science Research Paper

- · Trained and verified various CNN models on the diagnosis of eye diseases to find the best base models
- \cdot Novel application of ensemble methods had a 3% increase in test accuracy compared benchmark methods

Neural Network Natural Language Model

Feb. 2023

Implementation of BERT Masked Language Model

- $\cdot \ \text{Implemented a deep learning model in pyTorch that successfully predicted substitutions for hidden words}$
- · Analyzed model predictions for bias that revealed insights on how frequency affects word similarity

Student Answer Machine Learning Model

Nov. 2022

Ensemble Model for Predicting Student Test Answers

- · Designed an AI model in python with 70% test accuracy that topped class scores in contest by 0.6%
- · Engineered an item response theory model that beat all other models of the ensemble in prediction time

Topological Data Analysis Paper

Aug. 2021

Applied Math Research Paper

- · Authored a paper investigating applications of the nerve theorem in analyzing features for data science
- · Concluded that topological algorithms are a novel means to detect features in high dimensional data

EMPLOYMENT

Camp Counselor 2022

YMCA Toronto

- · Designed creative new programs that provided engaging experiences for the campers
- · Promoted to camp director for demonstrating motivated and responsible leadership

TECHNICAL SKILLS AND ACHIEVEMENTS

Languages C, C++, Python, Java, PostgreSQL, Lua

Software & Tools PyTorch, Git, BASH, LaTeX, Linux

Notable Courses Neural Networks & Computer Vision, Databases, Operating Systems

Math Contests Putnam 2022 Top 50%