Yiming Su

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EDUCATION

The University of Chicago Chicago, Illinois
Bachelor of Science in Computer Science, GPA: 3.88 Expected, June 2024
Honors: *Dean's List (2021-2022)*

Guangdong Country Garden School Foshan, China
IB Diploma June 2020
Honors: Student of the Year in School (2016-2020), Student of the Year in District (2017)

WORK EXPERIENCE

Microsoft Partner Group, University of Chicago Chicago, Illinois
Undergraduate Machine Learning Researcher March 2022 – Present
- Proposed a novel method to discover and analyze API violations by using Large Language Model
- Led more than 20 experiments investigating the impact of prompts sentences on the accuracy of Codex output
- Achieved 85% of validation accuracy on the result of Codex by fine-tuning input prompts and customized post-processing pipeline

MiiE Lab, University of Chicago Research Computing Center Chicago, Illinois
Undergraduate Machine Learning Researcher March 2022 – Present
- Customized an image captioning process on children's book by deploying CNN and RNN-LSTM for specific needs
- Engineered skin, race, and gender detecting pipelines using google cloud computing services for a team of 5
- Fine-tuned emotion detection CNN models for comic characters for more than 7 types of emotions

Computer Science Department, University of Chicago Chicago, Illinois
Teaching Assistant January 2022 – Present
- Conducted weekly office hours for more than 10 students per week to clarify fundamental programming concepts such as Linked List
- Analyzed 500 lines of students' codes per week with respect to quality and efficiency
- Led and organized 10 grading assignments and provided detailed feedback to 8 graders.

PROJECT EXPERIENCE

Counter-Strike Game Data Analysis Project Chicago, Illinois
Programmer March 2022 – Present
- Collected raw data from more than 100 game matches using Python scripts and libraries
- Deployed yolov7 object detection model to analyze players' performance and visualized the result using OpenCV
- Designed a RNN model with Keras to further analyze more than 50 player's positioning performance

Machine Learning Face Detection Project Chicago, Illinois
Programmer June 2020 – Present
- Modeled and programmed a convolutional neural network to recognize specific faces, achieved an accuracy of 95%
- Implemented a pipeline of extracting areas of interest when given a frame of animation
- Developed and trained a GAN model made by 2 CNNs in attempt to recreate the faces in the dataset.

SKILLS

Computer: Proficient in C, Python, PHP, Numpy, Keras, Pandas.
Courses: Linear Algebra, Math Foundation in Machine Learning, Introduction to Computer Systems.