Chenhao Li

1850 Nantucket Circle Apt 142, chenhal5@uci.edu

Santa Clara, CA 95054 (949) 562-9511

EXPERIENCE

Google, Mountain View July 2020-Present
Software Engineer

- Maintained the low latency of the buffer server when merging the gating model from single task to multi tasks purpose
- Improved the lightweight model accuracy by introducing the pseudo label generated by a high accuracy expensive teacher model on predicting speed sign.
- Created Google Cloud Vertex AI pipeline for training and inference machine learning model based on Kubeflow
- Migrated old data processing pipeline from simple Python multithreading to Apache Beam.

Enjoyor Co., Ltd., China August 2019-September 2019
Intern

- Compiled Fully Convolutional One-Stage Object Detection algorithm
- Developed the algorithm with GIoU loss and a new mapping method from feature maps to input image

Donald Bren School of Information and Computer Sciences, UCI September 2018-December 2018
Tutor

- Assisted students learning computer science in their homework
- Guided students how to hand-stimulate code and use debug mode to find their mistakes

EDUCATION

University of California, Irvine, CA June 2020

B.S. in Computer Science, and Mathematics in Applied and Computational
B.A. in Quantitative Economics
Cumulative GPA: 3.82

Relevant coursework: Data Structure, Artificial Intelligent, Neural Networks, Machine Learning, Data Mining, Computational Geometry, Formal Language and Automata, Natural Language Processing, Computer Vision

RESEARCH EXPERIENCE

Junior Independent Study, statistical learning January 2019-March 2019

- Implemented Logistic, subset method, K-Nearest Neighbor, Linear Discriminant Analysis, Quadratic Discriminant Analysis and Lasso model by using R in analyzing bank client subscription favor
- Achieved nearly 90% accuracy on predicting the client preference

Senior Independent Study, Python March 2020-June 2020

- Worked with Prof. Stephan Mandt at University of California, Irvine on Quasi-Monte Carlo Variational Inference
- Achieved quicker and more stable convergency

PROJECT

Grammatical Error Correction, Python April 2021-June 2021

- Completed simple n-gram probability calculation on grammar validation over long paragraphs.
- Implemented grammar error correction model for long sentences.
- Tracked the performance of model with different embedding methods, e.g., naive one-hot embedding, BERT-based, GPT-based.

Histopathologic Cancer Detection, Python September 2019 – December 2019

- Implemented ResNet101 to predict 32x32 Histopathologic cancer image
- Achieved 95% testing accuracy

Handwritten Digit Recognition, Python January 2019-March 2019

- Performed Decision Tree Classification, Random Forest Classification and Support Vector Machine on recognizing handwritten digits from Simion dataset
- Achieved nearly 98% accuracy on predicting the digits correctly

Sentiment Analysis on Amazon Reviews, Python January 2019-March 2019

- Implemented Convolutional Neural Network and Long-Short Term Memory to analyze the sentiment of Amazon reviews
- Achieved 83% accuracy

SKILLS

Computer: Python, Matlab, Latex, C/C++, R, Stata, TensorFlow, PyTorch

Language: Native – Chinese mandarin, Fluent – English, Intro – Japanese