

Siyi Wei

github.com/superp0tat0

www.wei-siyi.com

39 New Delhi Drive, Markham, ON L3S 0E1

647-870-8349 siyia.wei@mail.utoronto.ca

Education

Candidate Honours Bachelor of Science

May 2015 - Present

University of Toronto Scarborough

- Specialist in Statistics: Statistical Machine Learning and Data Mining
- CGPA: 3.17/4.00
- Relevant Courses: Probability theories, Stochastic Process, Linear Algebra, Introduction to Machine Learning and Data Mining, Introduction to Artificial Intelligence, Advanced Statistical Learning and Machine Learning, Computational Theory, Time Series, Data Structure, Database, Numerical Algorithms, Programming, Software Engineering, Deep Learning (Audition).

Project Experience

NLP analysis for mental health data (Research Project – Supervisor: Dr. M. Parsa)

January 2020 – Present

- QA the most recent BERT NLP model performance for mental health conversation records using COVFEFE and Kaldi
- Contribute to open source code by fixing the bugs for COVFEFE through GitHub.

Automation for ARIMA (Academic Project for times-series analysis in R)

August – December 2019

- Investigated default auto.arima function in forecast package, and found the defects for the import of external resources.
- Developed the automation program for the external resource selection in GDP deflators prediction and verified by time series Cross Validation. The improved model decreases the mean absolute percentage error rate from 11.77% to 9.37% for Oil industry. The automation also saved tremendous time for data selection.
- Successfully generalized the improvement for other industries and received praise from instructor and clients from Canada Statistics.

Machine Learning Project (Academic Project for Machine Learning)

August – December 2018

- Implemented RBF regression models with regularization factor and recovered the damaged image by inpainting functions.
- Built decision tree, decision forest and regularized logistic regression algorithms to help users solve classification problems, including Amazon reviews classifications and multiple other samples.
- Implemented multiple unsupervised machine learning algorithms, implemented in classification problem for BBC articles. Received 86 out of 100 as a final grade.

Work Experience

January – May 2019

QA Analyst and Web development, Rakuten Kobo

- Composed QA web story using Jenkins, Ruby and selenium. Helping team analyze customer behaviors through Google analytics.
- Delivered stories following custom Agile management and report to release manager during daily release meetings.
- Develop New kobo subscription plan web page and API services using C#, report it to product manager.