



Tao Ma

Professional Title

Skillful computer science engineer in terms of programming skill, building neural network models, analyzing and organizing data as well as a third year undergraduate student who specialized in Artificial Intelligence in school of computing, Queen's University.

✉ 16tm43@queensu.ca

📞 3433645768

📍 655 Princess Street, Kingston, Canada

EDUCATION

Major in Computer Science(specialized in AI) Queen's University

09/2017 – Present

Courses

- CISC452 Neural and Genetic Computing
- CISC352 Artificial Intelligence
- CISC332 Database Management System
- CISC324 Operating System
- CISC365 Algorithm I
- COGS201 Cognition and Computation

Minor in Applied Economics Queen's University

09/2017 – Present

Courses

- STAT263 Introduction to Statistics
- ECON200s Topics on Economics

Exchange Student Renmin University of China

07/2019 – 08/2019

Courses

- SE1912 Special Topics on International Economics
- SM1909 Cross-cultural Human Resource Management

WORK EXPERIENCE

Full time Internship EIC Education

05/2019 – 09/2019

Guangzhou, China

Achievements/Tasks

- Mostly as a full-time English tutor as well as an organizer of the Class

SKILLS

Python

Tensorflow

scikit-learn

HTML

Javascript

PHP

Jekyll

Markdown

Latex

C

SQL

Prolog

jQuery

PERSONAL PROJECT

Neural Network (09/2017 – Present)

- Research object detection models and successively implement yolov3 to perform object detection task
- Successively implemented algorithm which solve N-Queens problem of input size 1 million with less than 50 seconds
- Implement multi-layer ANN/Learning vector quantization with tensorflow which successively classify Iris-dataset/MNIST dataset with high precision(92%)
- Implement Principle Component Analysis to perform dimensionality reduction on Iris-dataset while preserving most of the features(loss = 0.92)

Data Structure (09/2017 – Present)

- Implement a Search Engine based on AVL tree and Priority queue
- Implement the Prim's Minimum Spanning Tree algorithm to perform graph search

Web Design (07/2017 – Present)

- A robust website model for departments using HTML, Javascript and CSS

Database Management (07/2019 – Present)

- Database developed that will be for tracking animals that are taken to the SPCA/Humane Society, rescued by animal rescuers and housed at independently owned shelters