

Yue Zhang

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EDUCATION

University of Waterloo

Bachelor of Mathematics in Data Science; GPA: 85/100(3.9/4.0)

Waterloo, ON
September 2020 - December 2023

New York University Courant

Master of Science in Computer Science

New York, NY
September 2024 - present

SKILLS SUMMARY

- **Languages:** C++, C, Python, SQL, R, Racket
- **Interests:** Machine Learning; Cryptography
- **Like:** Discrete Mathematics; Game Theory
- **Features:** Great creativity and interest in Algorithms and Stochastic Process
- **Soft Skills:** Always positive mindset, Always open to new things

EXPERIENCE

Massachusetts Institute of Technology

Machine Learning Summer Program

Remote
Aug 2020 - Sep 2020

- **Classification:** Perceptron algorithm
- **Neural Networks:** Convnet with ReLU activate function
- **Project:** Building an ML-Based Mortgage Lending Model

PROJECTS

- **Time Series Analysis on Recent Toronto Average Temperature:** Statistical models design and analysis for time series data fitting (Fall 2022)
 - **Analysis:** Trend, Seasonality, Autocorrelation
 - **Smoothing:** Regression with regularization, the Holt-Winters algorithm, Differencing
 - **Random part:** Box-Jenkins
- **Predicting Hit or Flop, A Classification Analysis of Spotify Music Dataset:** Classification models design and analysis to predict if a song is a hit or a flop (Winter 2023)
 - **Logistic Regression:** statistical inference
 - **Generative Classifiers:** LDA, QDA
 - **Support Vector Machine:** Polynomial Kernel, Radial Basis Function
 - **Tree-Based Methods:** Decision Tree, Random Forest
 - **Neural Networks:** Optimization of dimension and number of hidden layers
- **Biquadris Game Project:** Produce the video game Biquadris, a Latinization of the game Tetris (Spring 2023)
 - **Object-Oriented Programming:** with C++
 - **Medium-sized coding:** designing, testing, debugging, documenting

HONORS AND AWARDS

- Third Prize in China National High School Mathematics League - September, 2018
- University of Waterloo President's Scholarship - September, 2021

VOLUNTEER EXPERIENCE

- **Volunteer Notetaker** Waterloo, ON
Take notes for classmate registered with AccessAbility Services Spring 2022

OTHERS

- **Nationwide Top20 in the game Hearthstone** Beijing, China
With high WinRate of 24Win:2Lose October 2019
- **School Soccer Team** Beijing, China
Starting lineup Leftback September 2016-September 2018