

Zihao Li

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Education

Northeastern University (China)

Bachelor's degree, Computer Science

Shenyang, China

Sep 2019 – Jun 2023

Experience

Research Assistant

North Carolina State University

Jan 2022 – Feb 2022

- NC State University Global Training Initiative, 2022 Winter GEARS Online Program.
- Research Topic: Machine Learning and Its Applications.

Summer school student

Peter the Great St.Petersburg Polytechnic University

Aug 2021

- A New York City Taxi fare prediction project was completed on Kaggle using machine learning techniques.

Projects

Application of ANN for Modeling the Effectiveness of Quarantine Control in COVID-19 Infection Spread

- A combination of mechanistic mathematical modeling with machine learning was used to study the effects of quarantine policies in controlling the spread of the COVID-19 infection. The classic SIR epidemiological model for the spread of the virus within the susceptible, infected, and recovered subpopulations was used as a based model. Since the biological mechanisms driven the quarantine control are complex and not well understood, an artificial neural network (ANN) was used as a universal approximator modeling the effects of quarantine control in the spread of the virus.

Analysis of the presidential preference of American voters

- Use Pandas to analyze 75 million votes donated by American voters from July 22, 2020 to August 20, 2020 to analyze their preferences for presidential candidates. Meanwhile, third-party libraries such as *Matplotlib* and *WordCloud* are used for data set processing, data exploration and clarity, data analysis, and data visualization.

New-York-City-Taxi-Fare-Prediction

- 54 million lines of data were imported using *Dask*, and predictions were made using *XGBoost*. It ranks around 30% on Kaggle.

Student course selection management system

- A Java SE project, to achieve the students to select courses, cancel courses, teachers schedule courses, educational management and other functions.

Programing Languages & Skills

Python, Java, C, C++

JavaScript | HTML | CSS

Machine Learning, Numpy, Pandas, Data Structures, Algorithms, Discrete Mathematics, Probability Theory, Git

Certifications

Introduction to Data Science in Python

Coursera

Credential ID NND5XD2TC3EQ

Issued Sep 2021 · No Expiration Date

Python Data Structures

Coursera

Credential ID A3LJ8LRMR6CL

Issued Sep 2021 · No Expiration Date

Language

Chinese(native), English

Awards

2020 Third class Scholarship

Scholarship

· A scholarship to the top 30% of students in NEU