Zihao Li

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Education

Northeastern University (China)   *Shenyang, China*

Bachelor's degree, Computer Science   *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 was used as a based model. An artificial neural network (ANN) was
  used as a universal approximator modeling the effects of quarantine control on 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.
· Third-party libraries such as *Matplotlib* and *WordCloud* are used for data set processing, data exploration,
  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.

Logistics information management APP
· An Android project, it can parse XML, JSON data from the network, and can also use a local database for
  operations.

Programing Languages & Skills

Python, Java, C, C++
JavaScript | HTML | CSS | Vue
Machine Learning, TensorFlow, Scikit-Learn, Keras, Numpy, Pandas, Algorithms, Android Development, Git

Language

Chinese(native), English

Awards

2020 **Third class Scholarship**   *Scholarship*
    · A scholarship to the top 30% of students in NEU

2021 **Third prize of Liaoning Province in National Mathematics Competition for College Students**

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*