

Tengyang Zhang

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Summary

- Project experience in data processing, machine learning, and frontend/backend development. Have a great passion for computer science and developing software to solve complex problems. Fast learner, excellent teamwork.

Technical Skills

Programming Language

- Python, Java, JavaScript, SQL, HTML, C

Framework and Infrastructure

- Docker, Anaconda, Tensorflow, Keras, PyTorch, Numpy, Pandas, Scikits-Learn

Development Tools

- Visual Studio, IntelliJ IDEA, Jupyter Notebook, PyCharm

Projects

NYA Stock Price Prediction - Kaggle

June 2021

- Use pandas for data preprocessing and feature engineering.
- Compare the loss function and accuracy of different models.
- Finally, I decided to use the LSTM architecture to build an RNN model to predict the price of stocks and visualize the results.

Artificial Intelligence Agent

January 2021

- Create a Wumpus World game simulator to simulate the Wumpus World game mentioned by Russel and Norvig in the book Artificial Intelligence: A Modern Approach.
- Design an agent robot based on the A Star search algorithm to play the Wumpus World game
- Optimizing the search algorithm's heuristic functions allows the agent to obtain higher scores.

Airline Search Engine

August 2020

- Sequential algorithm programmed in Python, and distribute algorithm programmed in Scala using Spark.

Online Shopping System

July 2016

- A small online shopping system resembles Amazon.com developed using SQL Server, HTML, JavaScript, and JQuery.
- Fundamental features such as product catalog, product search, shopping cart, order processing, user registration and login, and administrator system.

Education

Washington State University

August 2020 – Present

Master of Science

Major in Computer Science, minor in Artificial Intelligence & Machine Learning

Courses:

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|---------------------------|------------------------------|----------------------|
| ○ Artificial Intelligence | ○ Machine Learning | ○ Big Data |
| ○ Graph Theory | ○ Human-Computer Interaction | ○ Numerical Analysis |

Anhui Science and Technology University

September 2013 – July 2017

Bachelor of Science

Major in Computer Science, minor in Software Engineering

Courses:

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|-----------------------------|--------------------|-------------------------------|
| ○ C Programming Language | ○ Data Structure | ○ MYSQL Database Application |
| ○ Java Programming Language | ○ Operation System | ○ Java Web System Development |