Tengyang Zhang

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SUMMARY

Project experience in data processing, machine learning and frontend/backend development. Have great passion on computer science and building software to solve complex problems. Fast learner, great team work.

TECHNICAL SKILLS

Programming Language: Python, Java, JavaScript, SQL, HTML, R, C
Framework & 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

➢ Use pandas for data preprocessing and feature engineering.
➢ Use different machine learning models to train data, and use test data sets to test different models.
➢ 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.

Online Shopping System

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

Artificial Intelligence Agent – Implement a Search-Based Agent to Play Wumpus World

➢ Applying algorithms such as A-star search allows the agent to play the Wumpus World game by itself and get a higher score.

Airline Search Engine

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

EDUCATION

Washington State University, Pullman, WA *Aug 2020 – Present*
M.S. Computer Science
Coursework: Artificial Intelligence, Graph Theory, Machine Learning, Human-Computer Interaction, Big Data, Algorithmics, Numerical Analysis

Anhui Science and Technology University, Anhui, China *Sept 2013 – July 2017*
B.S. Computer Science
Coursework: Data Structure, Operation System, MYSQL Database Application, Java Web System Development