

Cryptocurrency Trading Bot

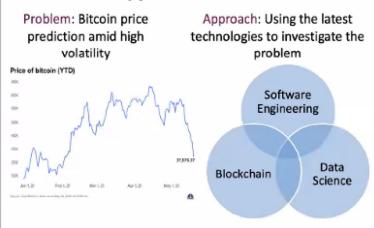
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Objectives

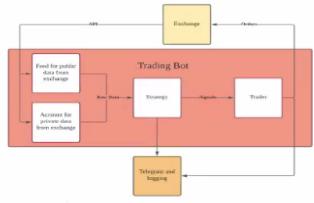
- Build a software platform that is able to fetch and analyze data and place trades.
- Build a machine learning model based on LSTM-NN and NLP to analyze the data and predict the future movement of price.
- Build a trading strategy based on the ML model to trade and make profit.
- The main purpose of this project is to learn about different technologies and apply my knowledge from CityU to investigate a realworld problem.

Problem & Approach

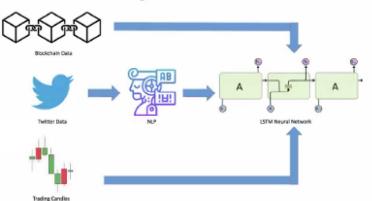


Methodology

Software Overview



Machine Learning Model

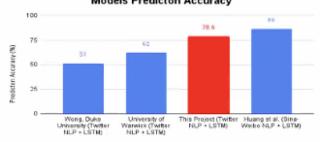


Results 78.6% Prediction Accuracy





The best English-based ML model Models Predicton Accuracy



The top chart uses Chinese social media which covers a lot of Chinese investors and institutions. This is not available in English. I plan to use this in future works.