BITCOIN PRICE PREDICTION USING LSTM

A Main Project Abstract

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ABSTRACT

Bitcoin is a cryptocurrency and is the world's most valuable cryptocurrency and is traded on over 40 exchanges around the world, accepting over 30 different currencies. As a currency, Bitcoin offers a new opportunity for price forecasting as it has high volatility, which is much higher compared to traditional currencies. Speculating on the Bitcoin price may offer the opportunity to obtain substantial returns but it may also entail a very high risk. So to judge the best time to enter the market is extremely important in order to get profits and not to lose too much money. The price of Bitcoin changes every day, just like the price of fiat currencies. However the Bitcoin price changes are on a greater scale than that of the fiat currency changes. As a result to get an idea of the future price trend can be extremely important. Bitcoin price can be predicted with Long short-term memory networks an extension of recurrent neural networks, which basically extend the memory and enable RNNs to remember inputs over a long period of time. This is because LSTMs contain information in a memory, much like the memory of a computer.

Project Guide

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