

Research on Prediction of Doge Coin Cryptocurrency Price

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Project Title: Research on Price Prediction of Doge Coin Cryptocurrency.

The first cryptocurrency, Bitcoin, was an astounding technical advancement that allowed anyone to exchange digital cash for negligible fees and without having to seek anyone's permission. But because Bitcoin was open source, anyone could replicate it, and at one point, everyone did, leading to the emergence of clones like Litecoin and Peercoin everywhere.

The humorous response to this tendency is Dogecoin. In the year 2013, software developers Billy Markus and Jackson Palmer came up with the idea for Dogecoin as a "joke," mocking the irrational speculation that was going on in the cryptocurrency market at the time. In particular, it is regarded as the first "dog coin" and the first "meme coin." Some people view it as a viable investment opportunity despite the fact that it is satirical.

Business Problem: Over the past couple of years, Doge coin has set the trend for investors to place their trust and money in cryptocurrencies, and there is no doubt that this trend is here to stay. So, wouldn't it be fantastic if we could forecast the price of Doge coin for tomorrow?

Data sets:

The dataset I retrieved is from an online source Kaggle, where it provides the attributes of the daily price action for Doge coin particularly the Date, Open, High, Low, Close, Adjusted close price for splits and dividend and/or capital gain distributions and Volume. We will get through the data in detailed as we dig deep into data and clean it for our analysis.

Source: <https://www.kaggle.com/datasets/neelgajare/dogecoin-historical-price-data>

Methods:

I am planning to use a Time Series - LSTM model for this dataset. As we dig deep into the data, we will find out why and how this long short-term memory model can be applied and is perfect for this.

Ethical Considerations:

Investing in Cryptocurrencies is not ethical enough for some people because of the fact that the price action moves faster and can be very unpredictable. Furthermore, this is a satirical currency.

Challenges/Issues:

I am working on this model for the first time and its always challenging when we try to apply or use the model on the dataset and resolve the issues I face.

References:

<https://www.ijraset.com/research-paper/crypto-currency-market-price-prediction>

<https://mashable.com/article/dogecoin-cryptocurrency-explainer>

<https://www.yahoo.com/video/data-science-used-cryptocurrency-predictions>