

BITCOIN PRICE PREDICTION USING GRU

ABSTRACT

The Cryptocurrency is a new sort of digital asset that has emerged as a result of the advancement of Web 3.0 and it has created a big opportunity for researchers. Cryptocurrency price forecasting is difficult due to price volatility and decentralized systems. Researchers have investigated and applied various machine learning models to predict Bitcoin price and volatility. Machine learning models like recurrent neural network (RNN) and long short-term memory (LSTM) have been shown to perform better than traditional time series models in cryptocurrency price prediction. However very few studies have applied GRU for bitcoin price prediction. GRUs are improved version of standard recurrent neural network and experimental results have shown that the gated recurrent unit (GRU) model performs better than popular existing Machine learning models. In this study we will use GRU model to predict Bitcoin price by taking various factors into consideration, which affect the price of bitcoin and build a prediction model to get accurate results close to the actual prices of cryptocurrencies.

Key Words :Bitcoin,Cryptocurrency, Web 3.0 ,Digital asset ,Decentralized systems,GRU, RNN, Machine learning ,Price prediction.

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