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| --- | --- | --- | --- | --- | --- | --- | --- |
| Paper | year | method | Input | Features | Output | acc/loss | Comments |
| KryptoOracle | 2019 | Decision trees  XGBoost | **Twitter** Sentiment vader + influential persons weights | Previous price; Sentiment; previousClosePrice; MeanAvg-ClosPrice; MovingAvgScores | BTC price of next minute | Visual on graph  No Explicit numbers |  |
| Bitcoin price forecasting method based on CNN-LSTM hybrid neural network model | 2019 |  | Bitcoin history;  Baidu index | Opening price, highest price, lowest price, closing price,  trading volume, and transaction amount of Bitcoin |  |  | NO TWITTER INFO |
| Predicting Fluctuations in Cryptocurrencies' Price using users' Comments and Real-time Prices | 2018 | LSTM | **tweets** which contain hashtags;  historical bitcoin data | 19 features: bitcoin market related; bitcoin blockchain related; sentiments |  | PR = 60% Acc = 50% |  |
| Recurrent Neural Network Based Bitcoin Price  Prediction by Twitter Sentiment Analysis | Oct. 2018 | RNN | **Twitter** sentiment  Historical price | Twitter sentiment from accounts;  Normalized price from Coinmarketcap | Price prediction | Acc 77.62%. | Own sentiment Analyzer implemented |
| Short-Term Bitcoin Price Fluctuation Prediction  Using Social Media and Web Search Data | Aug. 2019 | Polynomial regression | #bitcoin hashtag; Google search patterns;  Bitcoin price per day | Twitter sentiment VADER  Tweet Volume; google Trend Data(SVI) | Price prediction | accuracy 77.01% and 66.66% | Cocnlusion:  Sentiment not good  Neural not good |
| CNN-based multivariate data analysis for bitcoin trend prediction | 2020 |  | 2485days bitcoin history; twitter sentiment + volume |  |  |  | Too much data,  Cant handle this |
| Deep Learning Approach to Determine the Impact of Socio Economic Factors on Bitcoin Price Prediction | 2019 | CNN & LSTM & GRU | Twitter sentiment;  Bitcoin price;  Gold price | Weighted Vader; Tweet volume;  Gold price; historical bitcoin price | Bitcoin price | RMSE 47 | LSTM BEST |
| Forecasting Bitcoin Price Fluctuation by Twitter  Sentiment Analysis | 2020 | Random Forest Regression | 60 day tweets  Bitcoin price | Tweet sentiment,  Bitcoin closing price |  |  |  |