

Paper	yy	method	Tweets	Twitterfeatures	BitcoinFeatures	Output	acc/loss	Comments
KryptoOracle	2019	Decision trees XGBoost	#BTC#Bitcoin; 30 days 25000twts per day; English filtering; removing media # links	Twitter Sentiment vader with influential persons weights; Tweet volume	Previous price; previousClosePrice; MeanAvgClosePrice;MovingAvgScores Per Minute	BTC price of next minute	Visual on graph No Explicit numbers	Not neural
Predicting Fluctuations in Cryptocurrencies' Price using users' Comments and Real- time Prices	2018	Bi-directional LSTM	#Bitcoin#CoinListingNews, #cryptocurrency#cryptopum pdump#exchangehacked; per minute? Feb 2016 →Dec 2017	Twitter sentiment (technique not described)	Several price related features, Several bitcoin related features 10 sec and 10 minute interval	Price Next day?	PR = 60% Acc = 50%	Ill Defined
Recurrent Neural Network Based Bitcoin Price Prediction by Twitter Sentiment Analysis	Oct. 2018	RNN	@BTCNTN@cryptocurrency@ CryptoYoda1338(@BitcoinM agazine@BitcoinForums@co indesk@rogerkver 1 Jan '15 → 31 dec '17 1 Jan '18 → 30 June '18	Twitter sentiment score from accounts	Normalized price from Coinmarketcap	Price prediction next day	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 Filtered on English 16 Dec 17 → 20 Feb 19 7.5 mil twts Filter #,capitals,..	Twitter sentiment VADER; Tweet Volume; Google search patterns google Trend Data(SVI);	Weighted Price and Volume of Transactions per day (bitcoincharts) 9 April 14 → 07 January 19 per	Price prediction	Google: acc 77.01% Twitter vol: acc 66.66%	Cocnclusion: Sentiment not good Neural not good
Deep Learning Approach to Determine the Impact of Socio Economic Factors on Bitcoin Price Prediction	2019	CNN & LSTM & GRU	Twitter sentiment; Prediction is 3 months	Sentiment, number of followers, likes and the number of tweets in a time range.	Bitcoin price per 5 minute mapped to per day; Gold price per day (datahub.io)	Bitcoin price	RMSE 47	The features are tested individually LSTM BEST with bitcoin and twitter sentiment
Forecasting Bitcoin Price Fluctuation by Twitter Sentiment Analysis	2020	Random Forest Regression	60 day tweets 92550 per minute 12 March '18 → 12 May filtered	Vader sentiment score	Bitcoin price from "BITSTAMP," "COINBASE," "ITBIT," "KRAKEN" summed and avg; Close Price; Opening Price; Closing Price; High price; Low price;	Bitcoin price per minute	43.83% error minimum 21.84% error accuracy	
CNN-based multivariate data analysis for bitcoin trend prediction	2020	1D CNN	"Bitcoin" 28 April '13 → 15 Feb 2020	twitter sentiment + volume	10 bitcoin price features 4 blockchain based features	average bitcoin trend in the next k days.	ACC = 75%	Too much data, Not sure if I can handle this Only 2 output outcomes
Forecasting the Early Market Movement in Bitcoin Using Twitter's Sentiment Analysis: An Ensemblebased Prediction Model	2021	ENSEMBLE various instances of the XGBoost classifiers	Stemmming May 22, '20 → June 22, '20 Keywords: bitcoin, Bitcoin, bitcoins, Bitcoins, BTC, XBT, satoshi, #bitcoin, #bitcoins, #XBT, #BTC, \$XBT, \$BTC	Vader Sentiment Score followers, likes, and retweets associated with each tweet.	closing price of Bitcoin, the final sentiment score, and the moving average of the last 100 data points			ILL defined

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