

GAME OF COINS

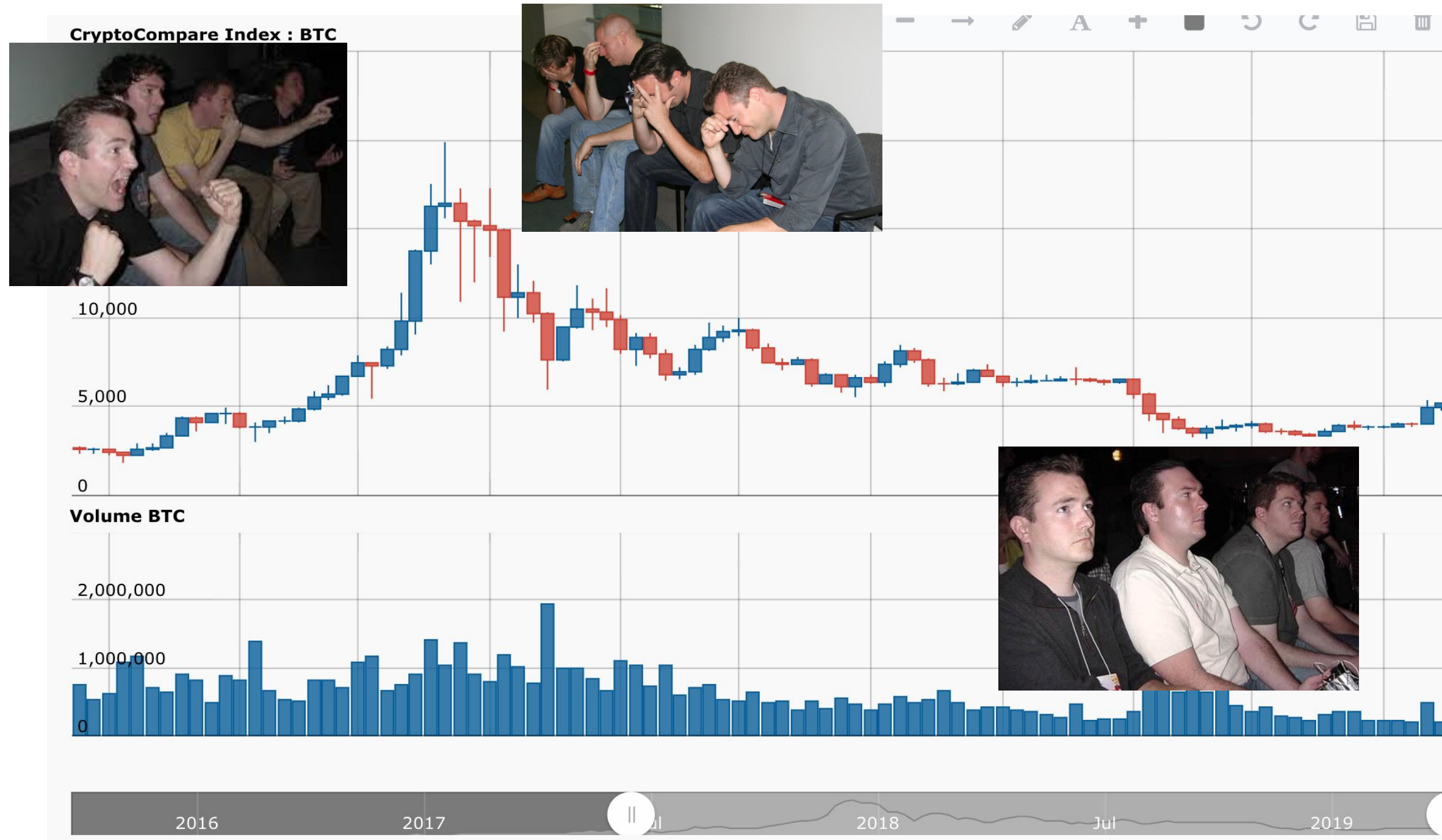
Real-Time Cryptocurrency Price Prediction

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Motivation

The BitCoin Mania From 2017 to 2018:

The general expectations of cryptocurrency market are best represented or sometimes even driven by the social sentiments expressed through social media and news.



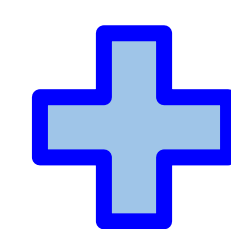
Goal

Prediction

Embedding sentiment analysis into RNN model to achieve better prediction of cryptocurrencies' price changes.

Streaming

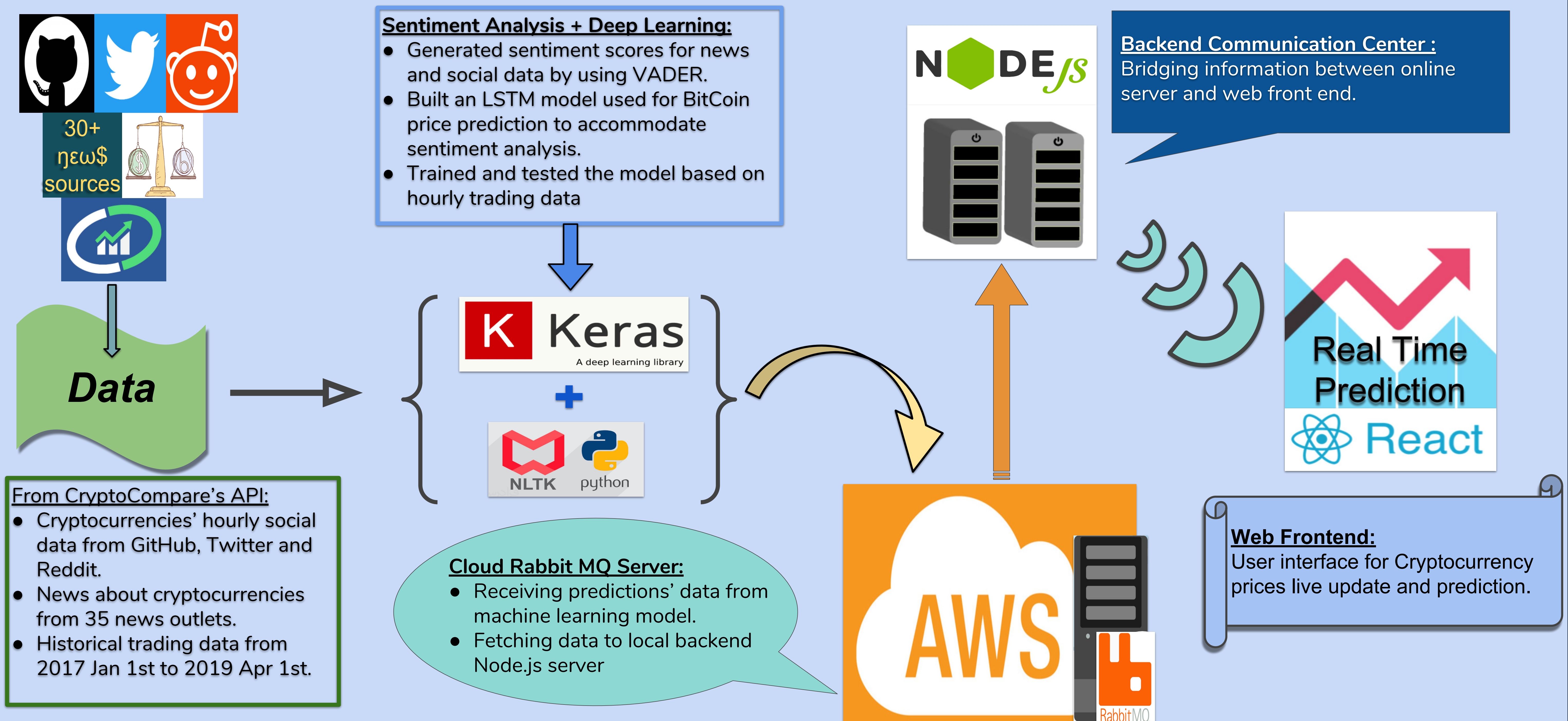
Developing web applications streaming live updates and predictions of targeted cryptocurrency prices.



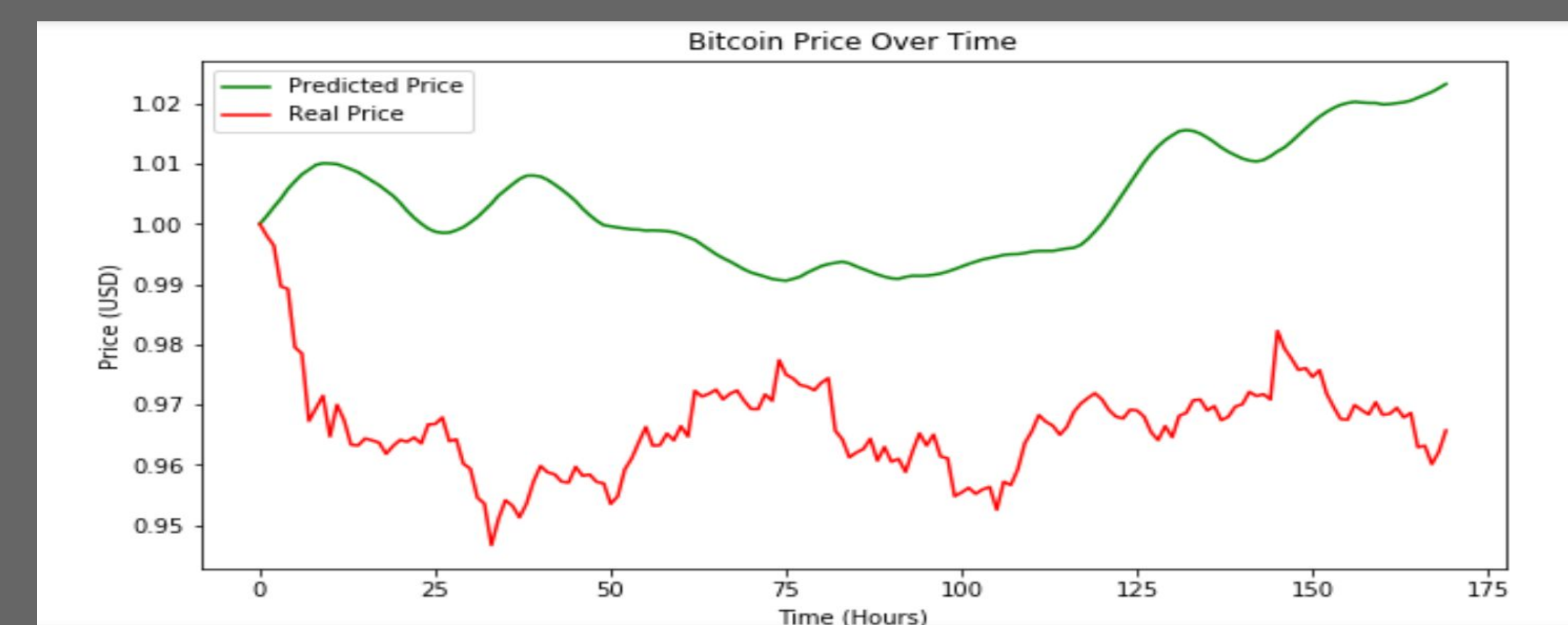
Approach

- Collecting historical cryptocurrencies trading data
- Collecting social data and news that are closely related to cryptocurrencies.
- Perform sentiment analysis and generate sentiment score for each piece of social data.
- Train and test LSTM model for cryptocurrency price change predictions.
- Establish cloud and local server for data communications between local machines and frontend web applications.
- Building user interfaces web applications for cryptocurrency price updates and predictions.

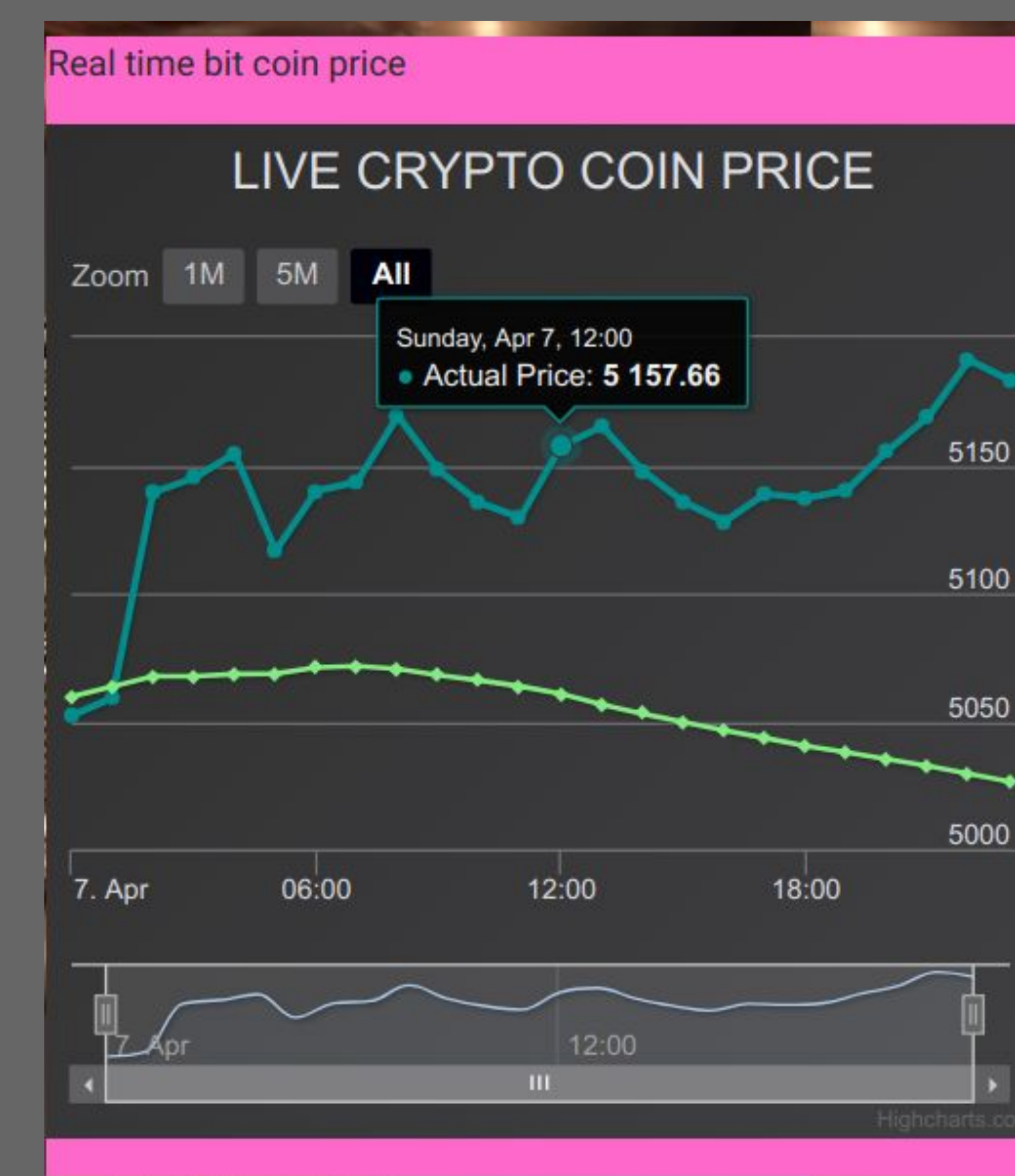
Pipeline



Visualization



CryptoCurrency	SYMBOL	PRICE	OPEN24HOUR	HIGH24HOUR	LOW24HOUR	VOLUME24HOUR	7D CHART	LASTMARKET	CHANGE24HOUR	MKTCAP
Bitcoin	BTC	5212.15	5039.91	5225.55	5029.48	3868717		Bitfinex	172.24	91907076
Litecoin	LTC	93.91	92.16	95.84	89.2	451486.22		Bitfinex	1.75	57511404
Ethereum	ETH	176.43	165.77	177.47	164.87	480305.77		Bitfinex	10.66	18524818
EOS	EOS	5.54	5.38	5.54	5.29	4365320.87		Bitfinex	0.16	57652031
BitcoinCash	BCH	325.71	303.55	327	298.65	192379.29		Bitfinex	22.16	57433204
XRP	XRP	0.365	0.3537	0.367	0.3515	79381018.27		Bitfinex	0.01	38497025
TRON	TRX	0.0295	0.02892	0.0298	0.02881	24633210.20		Bitfinex	0.00	19884811
Cash	ZEC	75.43	71.64	75.53	71.01	17840.47		Exmo	3.79	4727706



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