



Bitcoin vs. NASDAQ

Predicting prices of the Stock
Market and Bitcoin

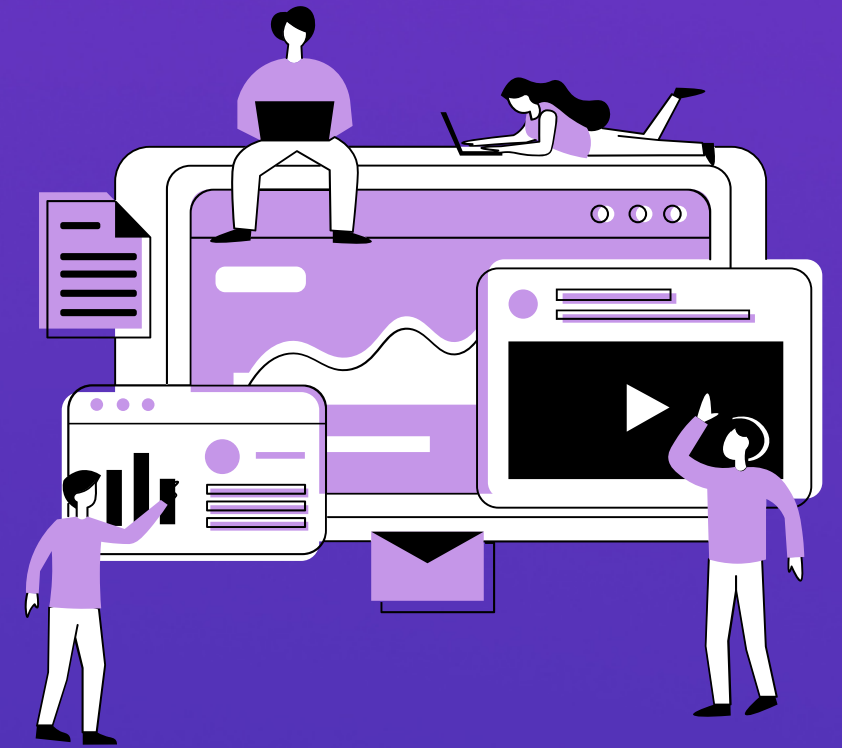
Kelsey Cox, Andrew Statz,
Tyler Vaughn, Alexis Speliotis

No Not Doing GameStop

Look at it from a 60,000 foot view

Using historical data of NASDAQ and Bitcoin

Outside Influences



History of Bitcoin

- Peer-to-peer cryptocurrency
- Created in 2009 by Satoshi Nakamoto
- Unregulated
- No open and no close
- Blockchain is a database or network that stores data

Market Cap: \$600 Billion

History of NASDAQ

- Founded in 1971
- Includes 3,300 stocks
- Classified as a broad-based stock index
- Indicator of economic growth
- Open 253 days a year

Market Cap: \$7.5 Trillion

Process

```
bitcoin
--
date DATE PK FK >- nasdaq.date
opening_price DEC FK >- nasdaq.opening_price
high DEC
low DEC
closing_price DEC FK >- nasdaq.closing_price

nasdaq
--
date DATE PK
opening_price DEC
high DEC
low DEC
adj_close DEC FK >- bitcoin.closing_price
closing_price DEC
volume BIGINT
```

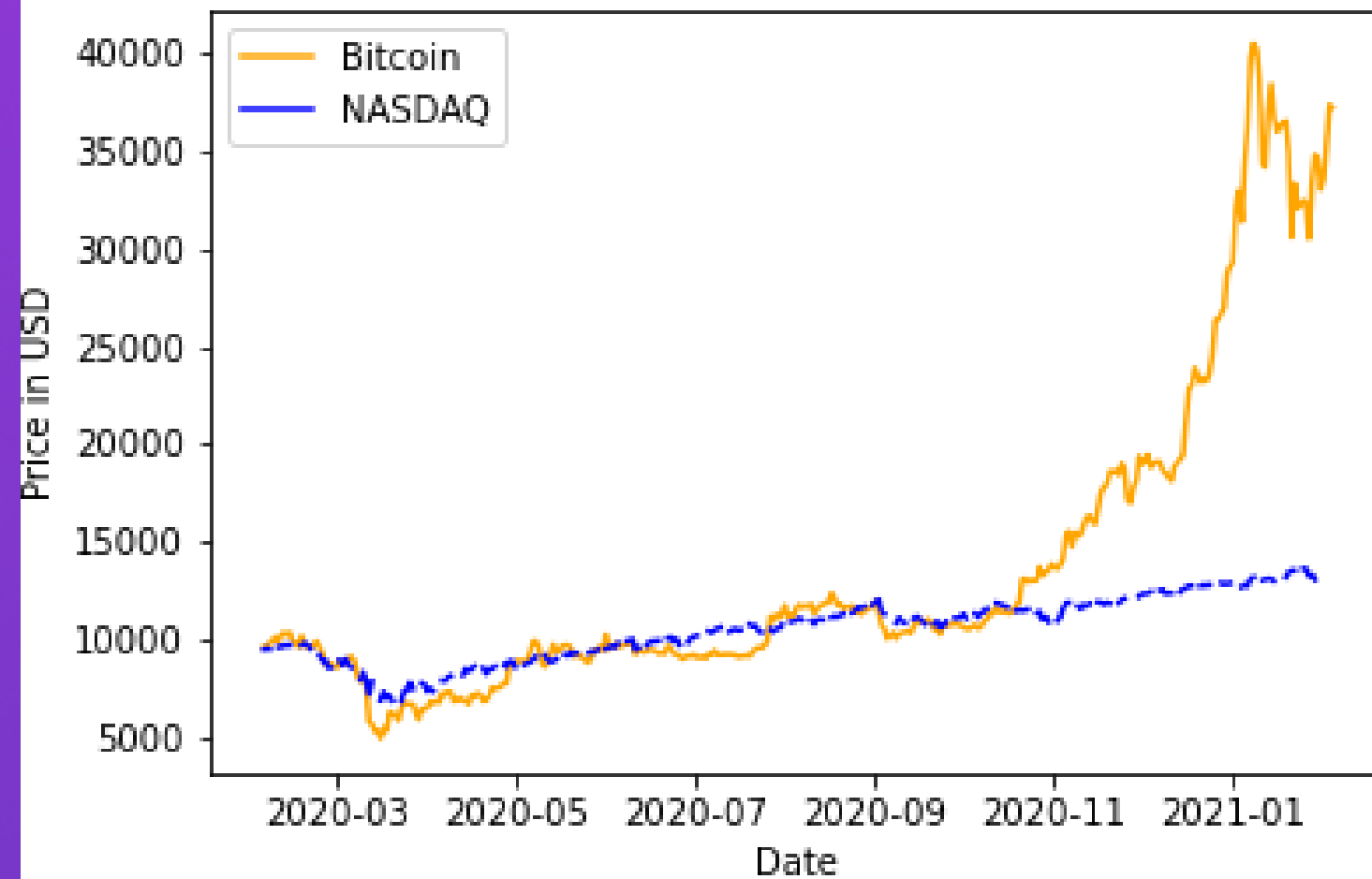
bitcoin

date	DATE
opening_price	DEC
high	DEC
low	DEC
closing_price	DEC

nasdaq

date	DATE
opening_price	DEC
high	DEC
low	DEC
adj_close	DEC
closing_price	DEC
volume	BIGINT

Price by Day(USD)



SQL

Pandas

BeautifulSoup

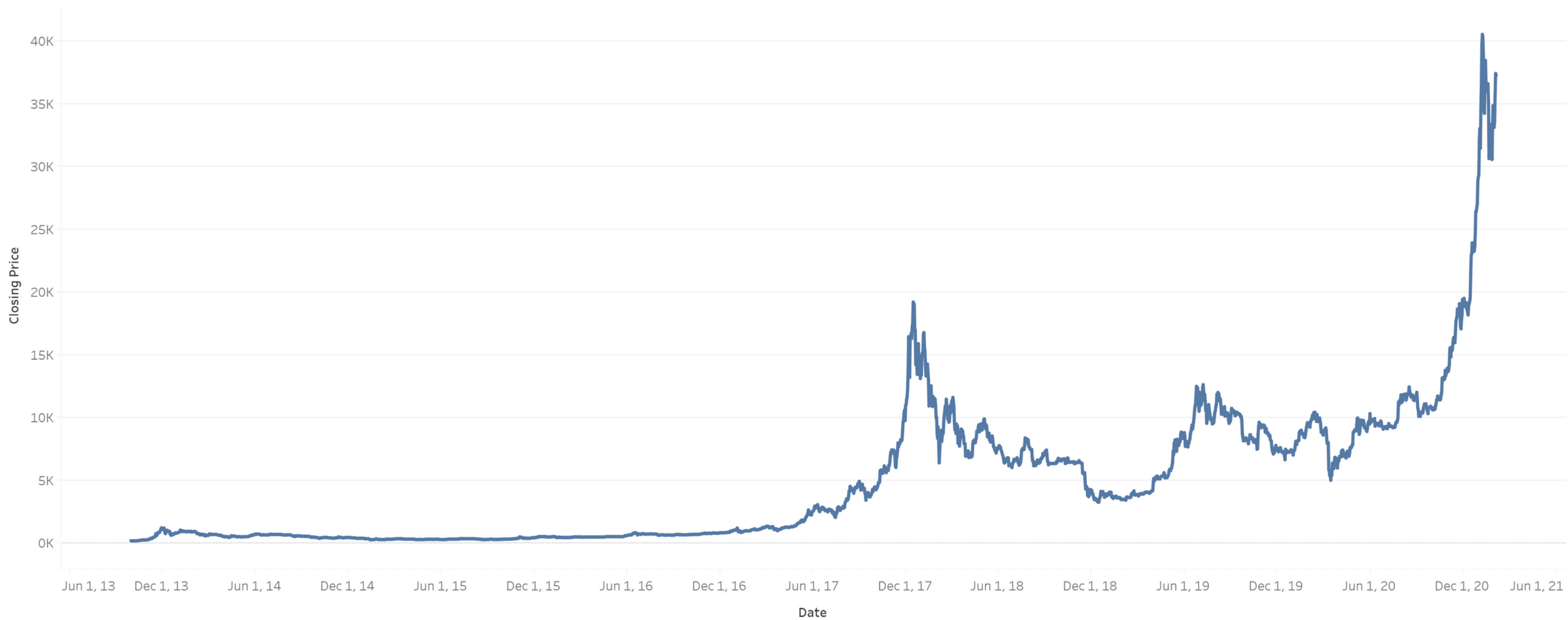
Machine Learning

Tableau



Bitcoin Historical Prices

<Bitcoin Historical Prices>

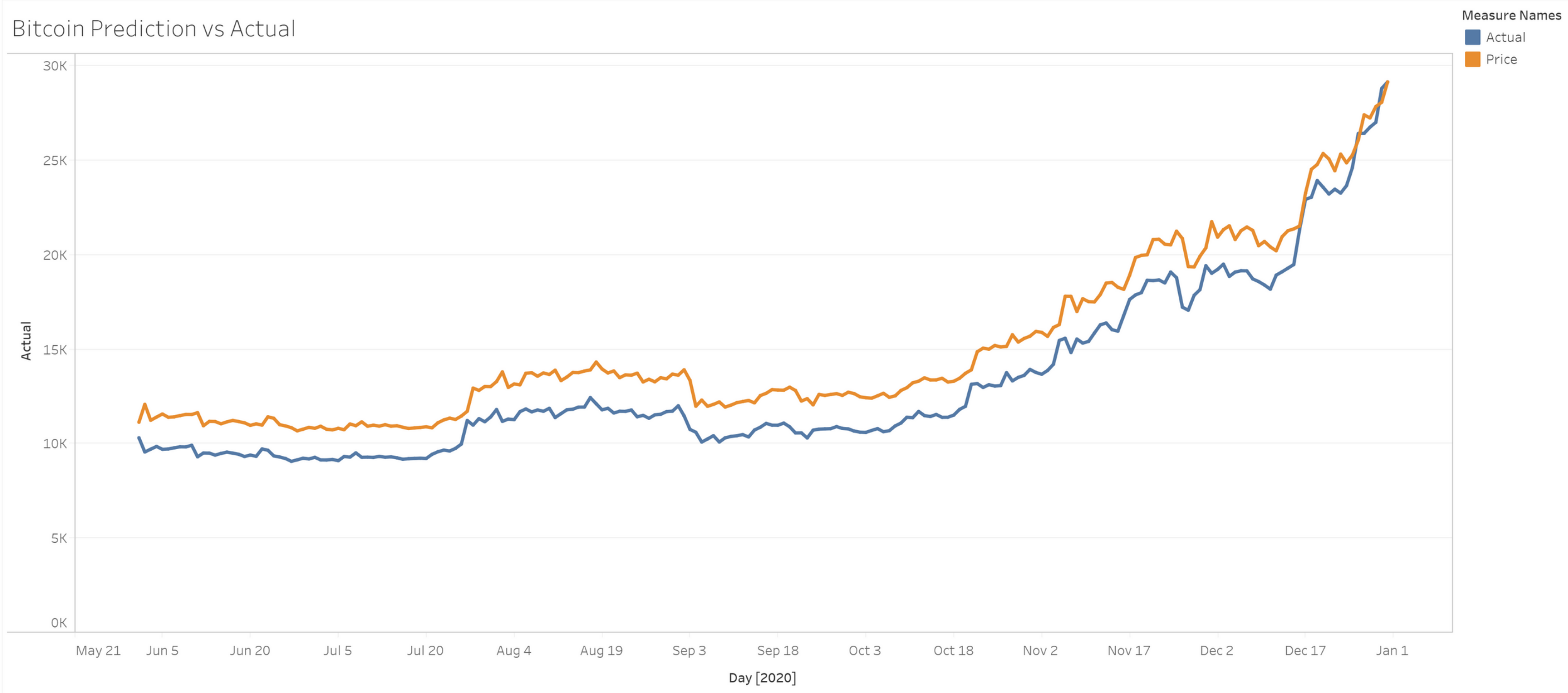


NASDAQ Historical Prices

<NASDAQ Historical Prices>



Bitcoin Prediction vs. Actual



NASDAQ Prediction vs. Actual



Outside Influences

Are stocks susceptible to outside influence

Does this effect their values



Bitcoin jumps as Tesla buys currency

Tesla purchased \$1.5bn of Bitcoin and announced it will start accepting the cryptocurrency as payment



Source: Bloomberg. Last update 09 February 2021, 12:35 GMT



Elon Musk ✓

@elonmusk

#bitcoin ₿

Joined June 2009

102 Following 43.8M Followers

The background of the image is a complex financial visualization. It features a grid of data tables with various numerical values, some in red and some in green, indicating market movements. Overlaid on this grid are several line charts and candlestick patterns in various colors (blue, green, red, yellow). The overall aesthetic is that of a high-tech financial dashboard or a complex stock market analysis tool.

Hedge Fund Anyone?