

The background of the slide is a dark blue gradient. It features a faint, repeating pattern of binary code (0s and 1s) in a lighter blue color. Overlaid on this background is a large, stylized Bitcoin symbol (a white 'B' with two vertical strokes) in the center-right. To the left of the Bitcoin symbol, there is a line graph with a blue and white candlestick pattern, suggesting a price chart. The title 'Bitcoin Prediction' is written in a large, white, sans-serif font across the middle of the slide.

Bitcoin Prediction

A small, teal-colored triangle pointing downwards, located just above the author's name.

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Intro to Data Science

3/21/2018

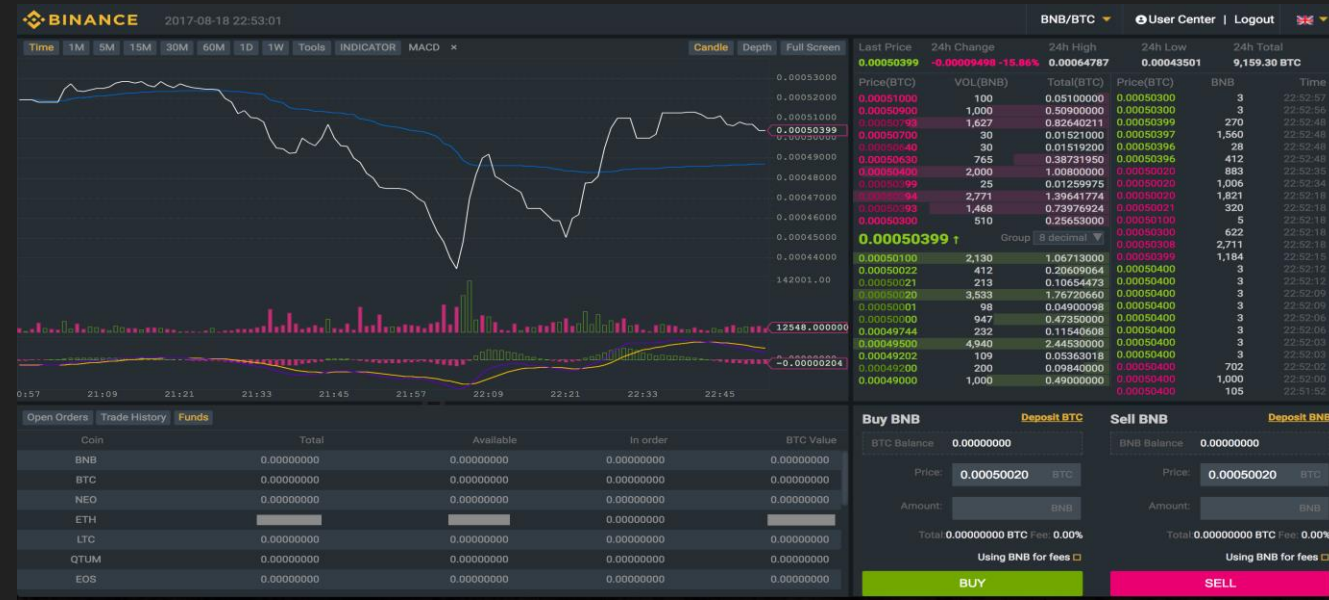
Why?

- I hate Bitcoin → but it is the most popular
- Everyone knows bitcoin = Lamborghini's



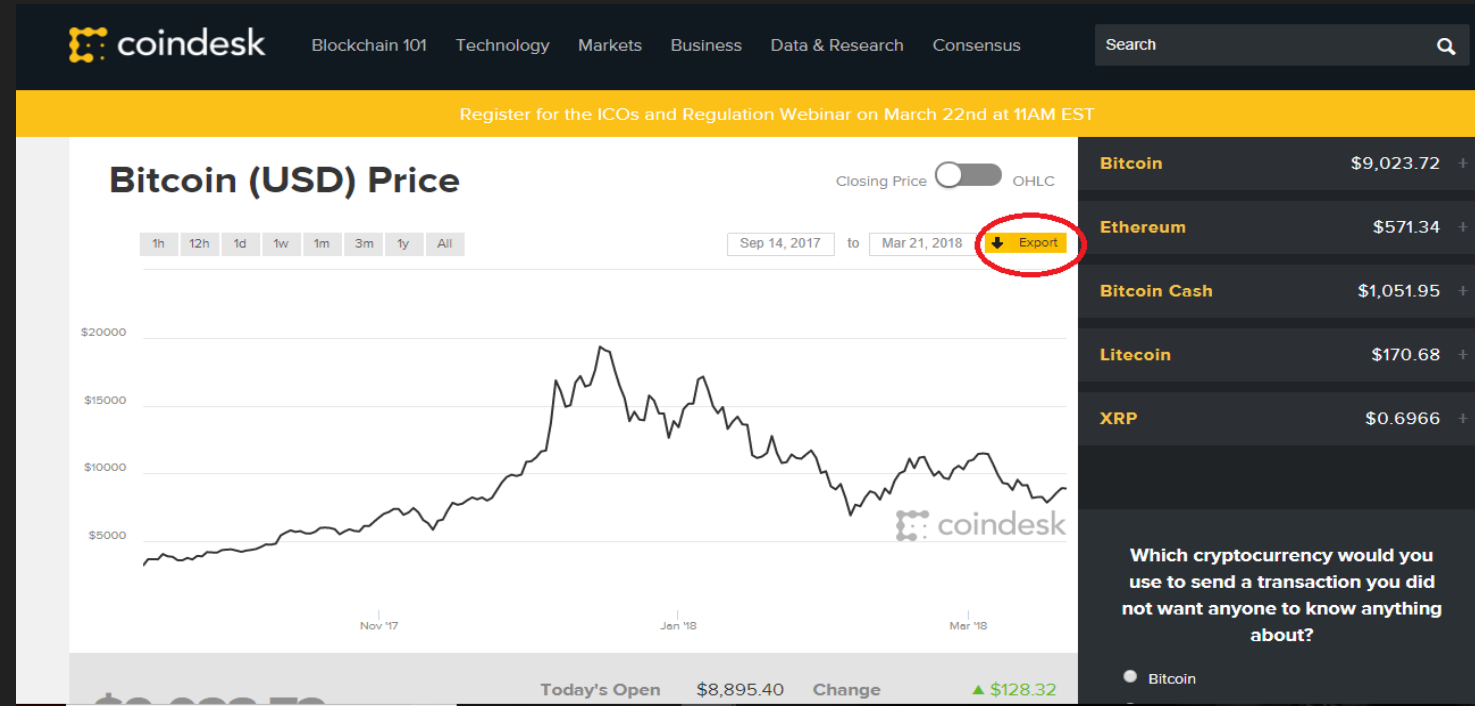
Business Problem

- Bitcoin is as volatile as it gets
- Financial institutions and Hedge funds are still trying to profit
 - Day trading analysis with candlesticks, Fibonacci retracement, etc.
- Goal: Predict future price of Bitcoin using regression



Variables & Data Source

- Variables
 - Daily Closing Price of Bitcoin starting now
 - Data crawling for daily total “bitcoin” tweets
- Data Sources
 - CoinDesk
 - Twitter Search API



Approach

- Create and combine bitcoin tweets and price data set
 - X_1 = daily tweet total
 - X_2 = daily closing price
 - Y = Tomorrow's price
- Split training and test
- Nonlinear regression
- Output
 - Buy if price will go up
 - Sell if price will go down