

UTM DATA ANALYTICS BOOTCAMP COVID-19 VS. STOCK MARKET

2020-06-07

OVERVIEW

1. Team Members

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2. Project Description/Outline

i While the toilet paper and hand sanitizer kerfuffle has abruptly ended with Costco no longer accepting returns on these once so-called hot commodities, COVID-19 continues to wreak havoc upon the world economy during these unprecedented times; with the Dow Jones Industrial Average (DJI) sinking almost 10000 points from February 2020 to March 2020.

The DJI measures the daily price movements of 30 large American companies on the NASDAQ and New York Stock Exchange (NYSE) within all the major sectors of the economy, we believe the DJI is the perfect index to compare how the stock market is recovering. As the world begins to ease the lockdowns, we will show how each of the 30 companies fared and affected the DJI.

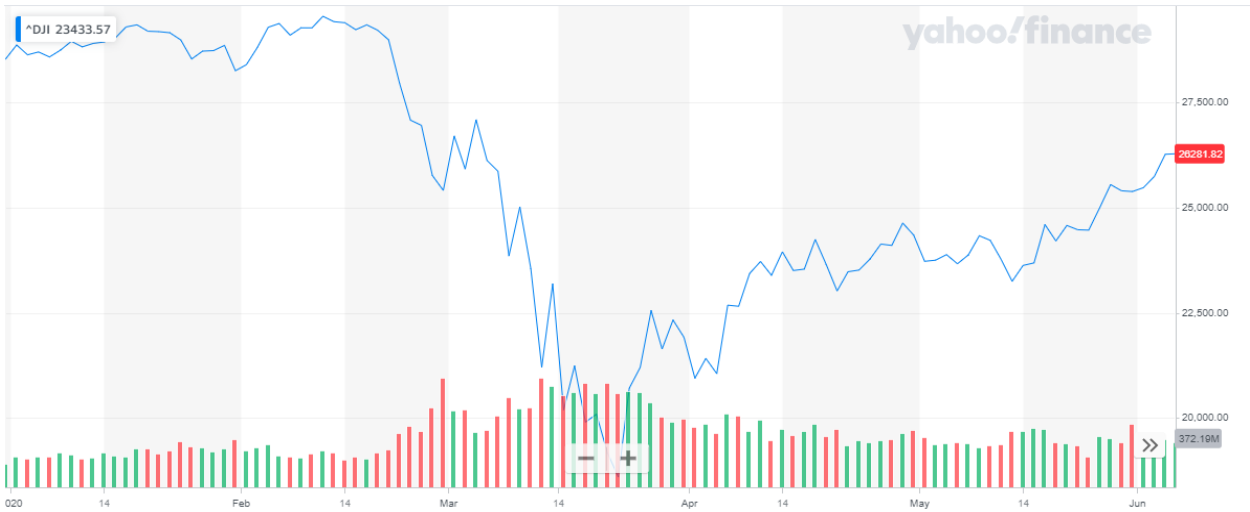
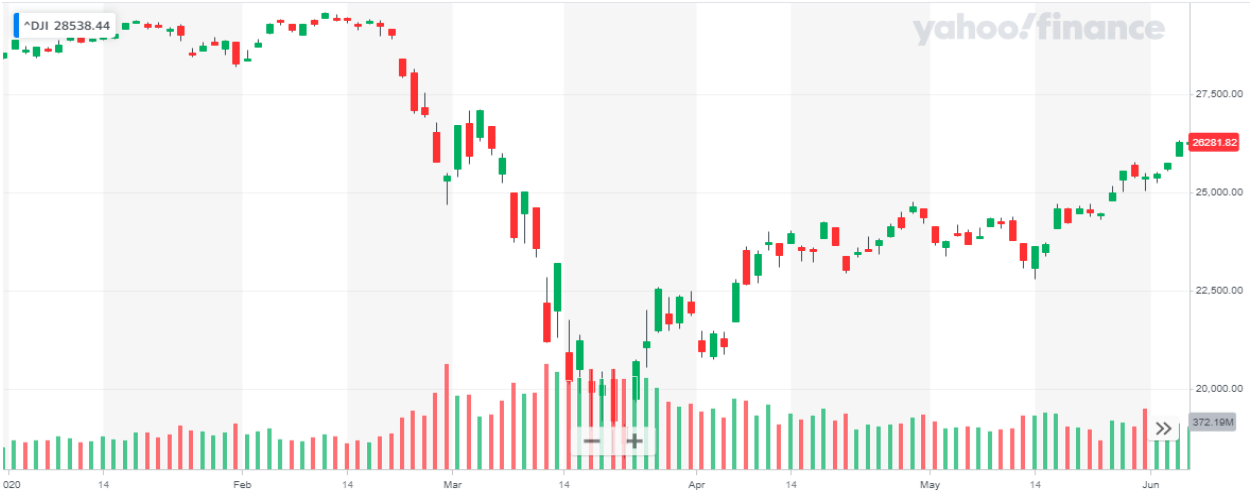
3. Team Member Tasks

- i**
- Get datasets from Yahoo Finance (DJI and its 30 components)
 - Load datasets to MongoDB using Python Flask
 - Query the database to visualize the data in the following methods through HTML/CSS and JavaScript:
 - Tables (jQuery)
 - Graphs (Plotly)
 - API (Python Flask)
 - Read API/Display Data (JavaScript)
 - Build webpages

4. Datasets

- i**
- Yahoo Finance:
 - Quote: <https://finance.yahoo.com/quote/%5EDJI?p=%5EDJI>
 - Chart: <https://finance.yahoo.com/chart/%5EDJI>

5. Charts



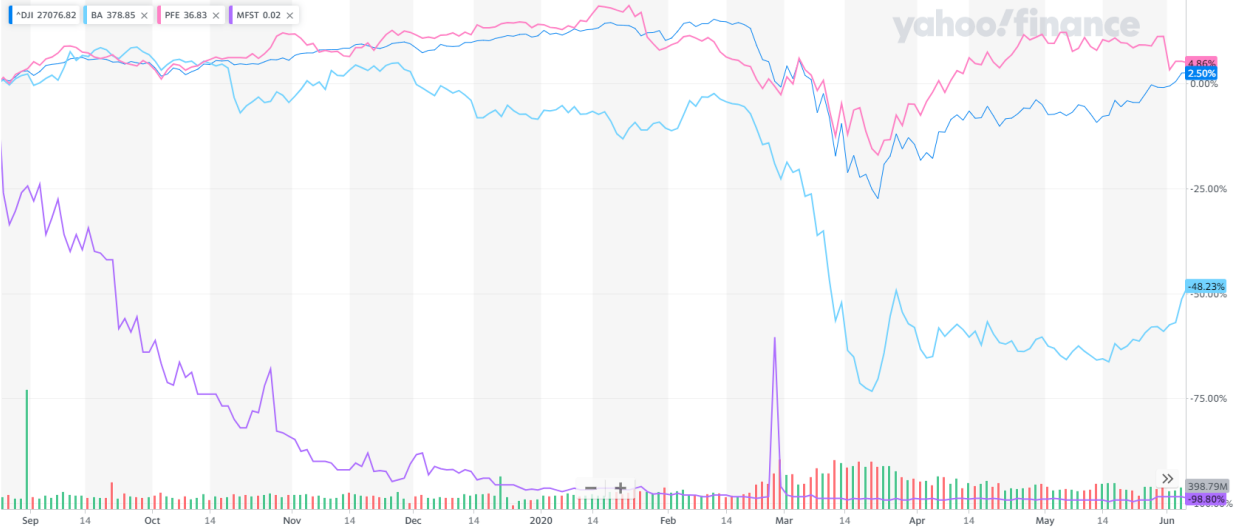
Dow Jones Industrial Average (^DJI)

DJI - DJI Real Time Price, Currency in USD

27,110.98 +829.16 (+3.15%)

At close: June 5 5:07PM EDT

Indicators Comparison Date Range 1D 5D 1M 3M 6M YTD 1Y 2Y 5Y Max Interval 1D Line Draw



6. Components

Symbol	Company Name	Last Price (June 5, 2020)
<u>PFE</u>	Pfizer Inc.	35.99
<u>JNJ</u>	Johnson & Johnson	147.3
<u>WMT</u>	Walmart Inc.	121.56
<u>MRK</u>	Merck & Co., Inc.	82.26
<u>VZ</u>	Verizon Communications Inc.	57.74
<u>DIS</u>	The Walt Disney Company	124.82
<u>NKE</u>	NIKE, Inc.	102.71
<u>GS</u>	The Goldman Sachs Group, Inc.	217.92
<u>PG</u>	The Procter & Gamble Company	118.33
<u>MCD</u>	McDonald's Corporation	197.16
<u>CSCO</u>	Cisco Systems, Inc.	47.83
<u>INTC</u>	Intel Corporation	64.34
<u>MSFT</u>	Microsoft Corporation	187.2
<u>HD</u>	The Home Depot, Inc.	254.9
<u>KO</u>	The Coca-Cola Company	49.09
<u>IBM</u>	International Business Machines Corporation	132.06
<u>WBA</u>	Walgreens Boots Alliance, Inc.	45.35
<u>AAPL</u>	Apple Inc.	331.5
<u>DOW</u>	Dow Inc.	43.97
<u>MMM</u>	3M Company	167.41
<u>AXP</u>	American Express Company	109.73
<u>V</u>	Visa Inc.	199.61
<u>JPM</u>	JPMorgan Chase & Co.	111.23
<u>UNH</u>	UnitedHealth Group Incorporated	311.85
<u>CVX</u>	Chevron Corporation	100.81
<u>CAT</u>	Caterpillar Inc.	135.12
<u>TRV</u>	The Travelers Companies, Inc.	124.36
<u>RTX</u>	Raytheon Technologies Corporation	72.07
<u>XOM</u>	Exxon Mobil Corporation	53.08
<u>BA</u>	The Boeing Company	205.43