CWRU Data Analytics Boot Camp

Spring 2020

Project Two Proposal

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**Impact of Covid-19 on America- A look into the Stock Market, the rate of Infection and availability of Hospital Beds**

***Background***

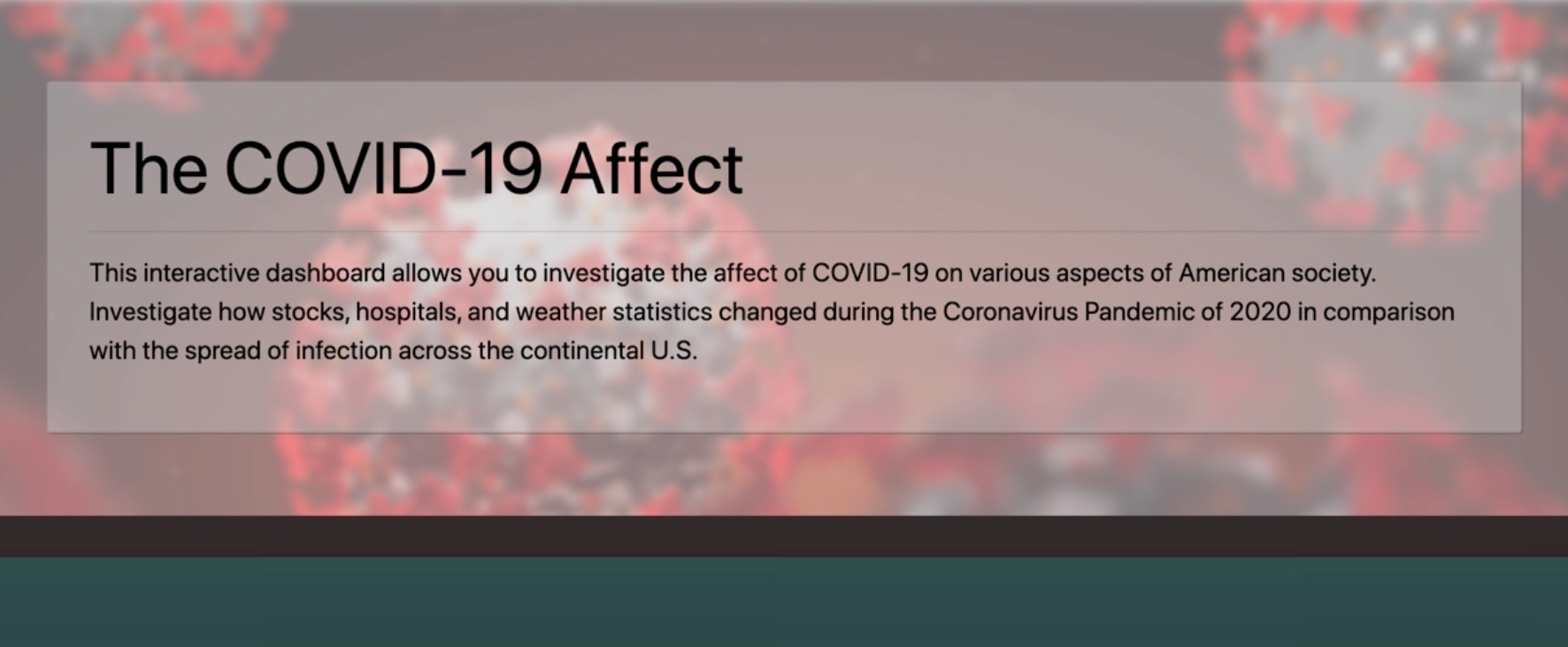
The novel coronavirus has impacted all forms of life globally one way or another. USA has been on the epicenter of the attack since March 2020 which has vastly influenced the different aspects of the American life- Stock market, hospital bed availability, and even aspects of the weather. This data visualization project looks into visualizing and analyzing this impact through some of the available datasets in the time period of January-April 2020. We will apply our knowledge on ETL and create an interactive dashboard page with multiple charts that update from our data source to tell a story through our data. The major objective is to investigate how stocks, hospitals and weather statistics changed during the Coronavirus Pandemic in comparison with the spread of infection across the continental US.

***Data Sources***

* Stock Market: Quandl API, Thinkorswim trading platform from TD America
* Infection Rate & Hospital Bed Related Data: <https://www.kaggle.com/mrmorj/hospital-bed-capacity-and-covid19>
* https://www.kaggle.com/imdevskp/corona-virus-report
* Weather Related [Data](https://www.climate.gov/maps-data/primer/what-environmental-data-are-relevant-study-infectious-diseases-covid-19?fbclid=IwAR1W9QaRIisR1QfCQFWveE_UWRvNSX6K_ieuZWhgbBDBIUaDe1dKs1kmoLU)

***Github Repository -*** <https://github.com/coconutpep/US-COVID19-Effect>

***Skeleton Website Image***



**Who Does What**

1. Finding Data Source - Team – May 23
2. Skeleton Dashboard – Ryan and Mahamat – May 26
3. Understanding API and Drafting Proposal – Goutham and Sumeet – May 26
4. ETL Process – Team
5. Analyze data
6. Use a JS library that was not used in class
7. Plotly/D3 visualization
8. Heroku Deployment