

## **Project 2 Proposal**

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### **Topic: Domestic Airline Travel During the Pandemic**

#### Proposal

We would like to investigate how the pandemic has changed where people in the United States are traveling by air. We intend to investigate which locations have increased inbound flights and which locations have lost the most in-bound flights in comparison to pre-Pandemic travel. We would like to corroborate that information with occupancy rates for hotels in those same destinations.

Additionally, we will investigate if those locations with the largest increase in inbound travel have seen a commensurate increase in COVID19 positivity.

Finally, we will investigate if a connection exists between median household income and the Volatility Index and a willingness to travel.

#### Questions

1. Where are people traveling by air in the United States during the pandemic?
  - a. Which locations have had an increase/decrease in incoming flights?
  - b. Which locations have had an increase/decrease in hotel occupancy rates?
2. Are there any connections between the most traveled-to destinations and a spike in local COVID-19 occurrences?
3. Is there a relationship between household income and VIX and a willingness to travel during the Pandemic?

#### Links

Flight Data Information: <https://www.oag.com/>

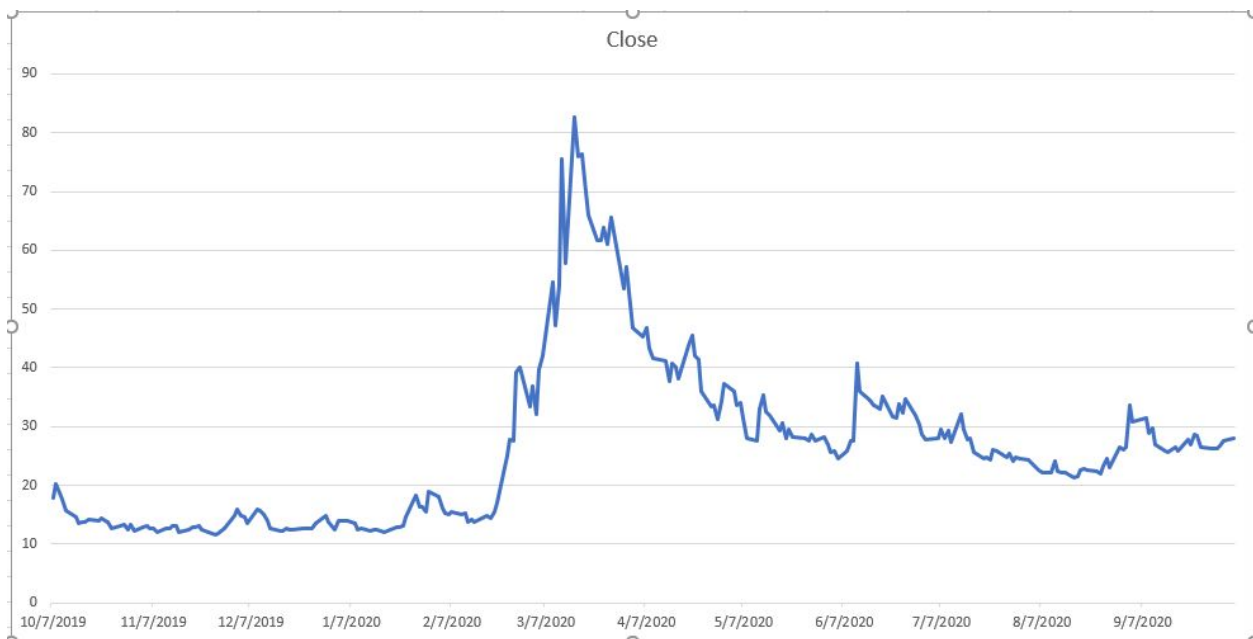
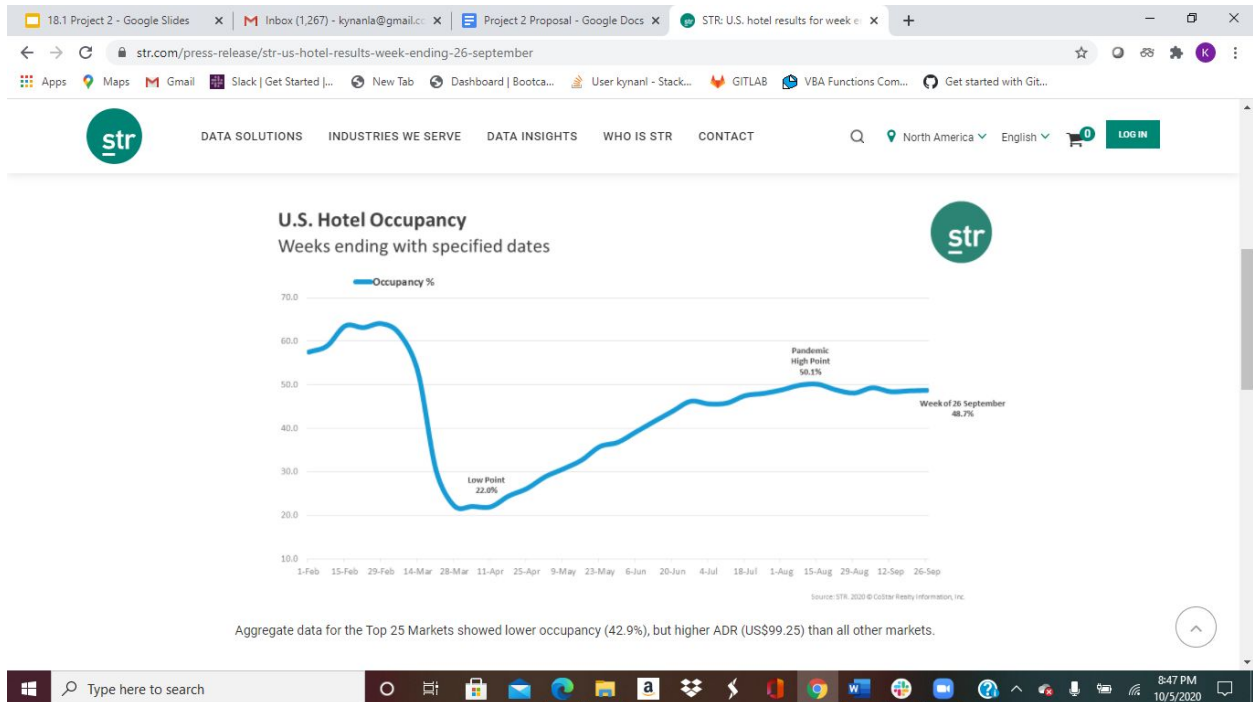
Hotel Data: <https://str.com/>

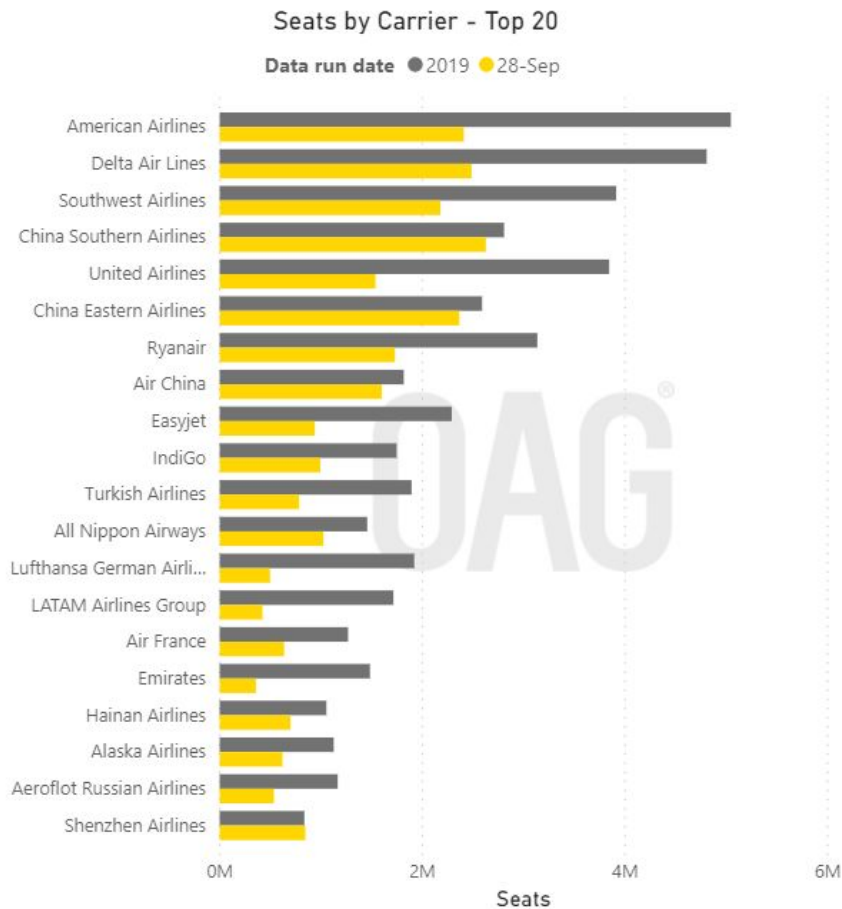
VIX: <https://finance.yahoo.com/quote/%5EVIX/history/>

COVID19: <https://usafacts.org/visualizations/coronavirus-covid-19-spread-map/>

Household Income: <https://www.census.gov/data/datasets.html>

## Screenshots





### Proposed Design

We envision a dashboard featuring a leaflet map featuring the top travel markets for both air travel and hotels. The map will have an additional layer at either the county or state level displaying COVID19 positivity rates.

Our dashboard will include a secondary chart that visualizes the relationship between VIX, number of flights, and COVID19 positivity rates.

GitHub Link: [https://github.com/rew0809/NW\\_BootCamp\\_Proj2](https://github.com/rew0809/NW_BootCamp_Proj2)