Vacation Safely During Covid-19

Getting back to a new normal.
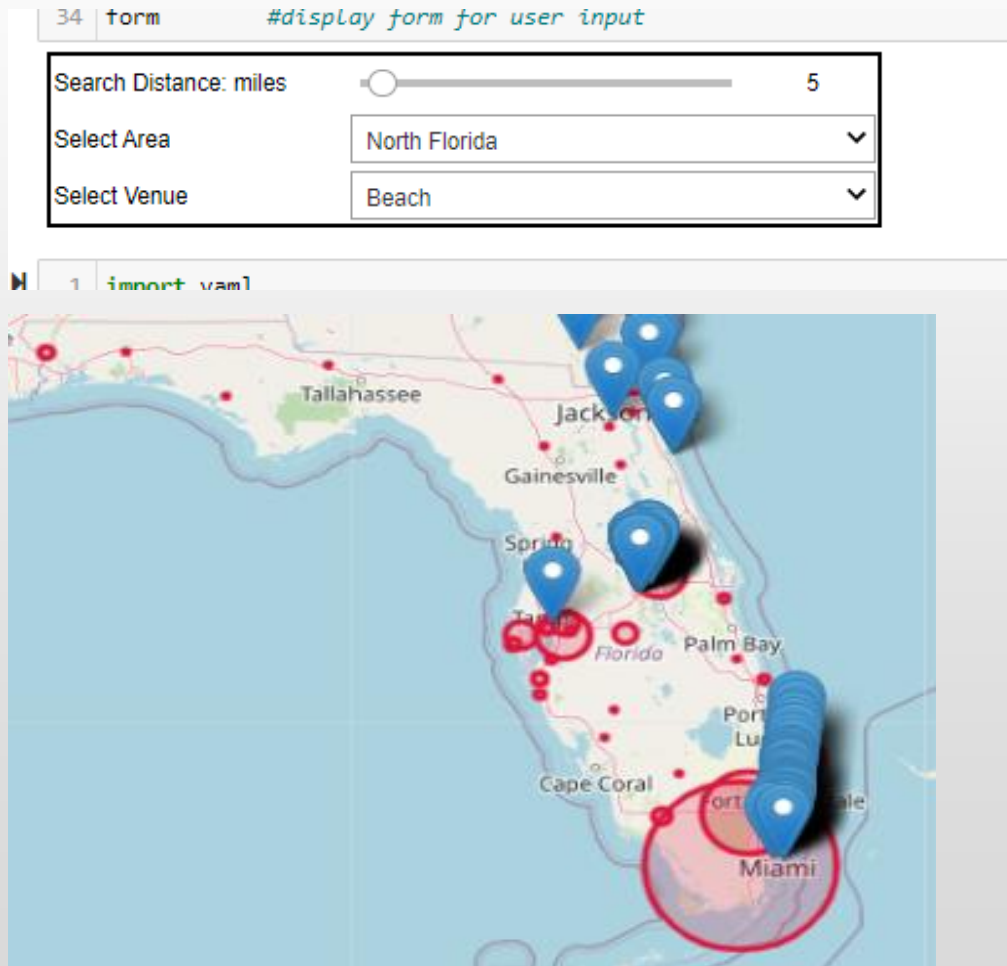
Introduction

- Problem: Where can I safely travel in Florida during the Covid-19 pandemic?

- Audience: Families wanting to travel to Florida destinations during the pandemic.

- People still want to take their families on vacation in 2020, however they want to reduce the risk of contracting Covid-19. This application will use available data to show outbreak hotspots to stay away from, show outbreak levels near destinations of their choice, and recommend destinations in low impacted areas.

The Data

- Three types of data are required for this project.
    - GeoJson file for county boundaries
        - https://freddye.carto.com/tables/florida_counties/public/map
    - Location data from Foursquare – used both in mapping counties and for listing of destinations.
    - Covid-19 data by count. This information is located @ https://www.worldometers.info/coronavirus/usa/florida/
        - This data is updated daily and is located in a table that is scraped for use in the project.
        - I use the Total Cases, Total Deaths and Total Test columns. Total Test / Total Cases is used to calculate the Positivity Rate, and Total Deaths / Total Cases is used to calculate the Death Rate.

Methodology
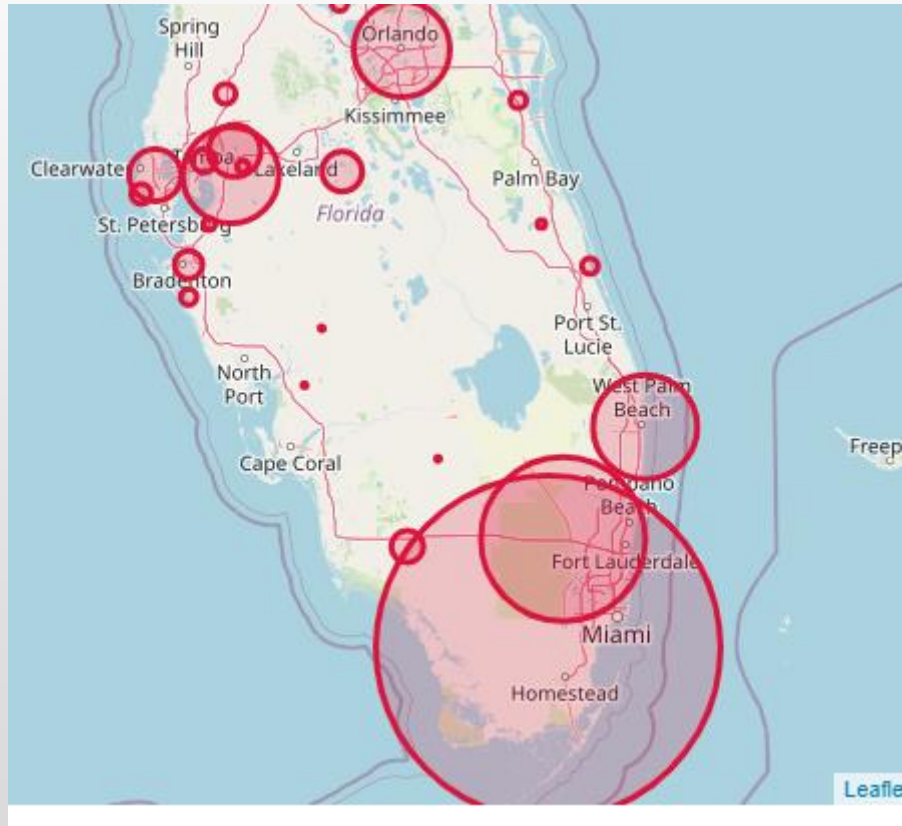

Step 4

Get Input From User

Step 5

Get Venues

Step 6

Plot Venues

Methodology   ... *continued*

Step 1

Get Covid-19 Case Data

Step 2
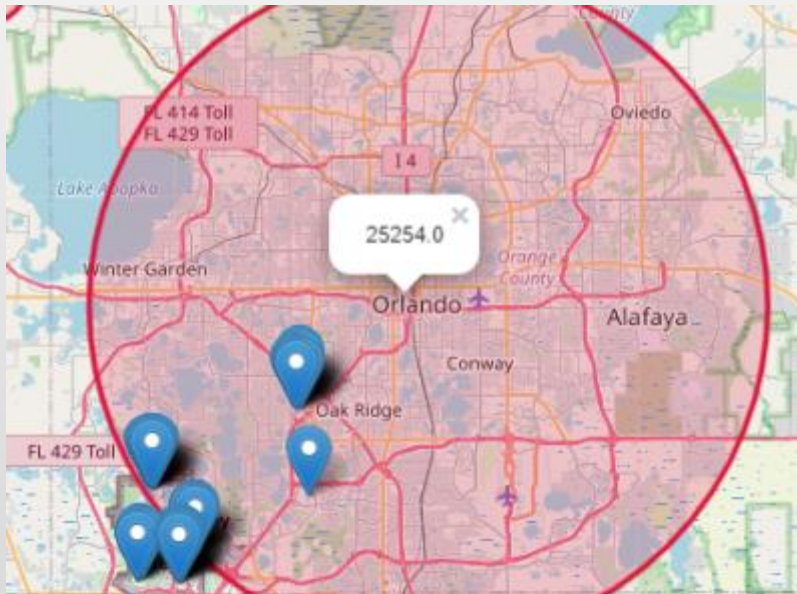
Clean and Shape the Data

Step 3

Get GeoData | Plot Data on a Map

Results

Results show location, Covid-19 case counts, and desired venues in the chosen area.

Observations

One point of caution in the effort is that the visual representation of Total Case count on a map might be misleading to someone unfamiliar with the use of a bubble map. Since a bubble map depicts relative counts, using a graphical image, the bubble, with the count determining the bubbles size, the untrained consumer might mistakenly think that the impact of the cases extends to the areas on the map covered by the bubble. This should be covered with instructions to the consumer prior to allowing them use of the map.

Conclusion

As a Floridian, I am conserved by the portrayal of Florida as some kind dead zone of Covid-19 patients. As can be seen by this map there is so much of this state that has not ben touched by the pandemic. I object to the scare tactics of the evening news, and its impact on an entire state economy. The role of data scientist should include taking what you are passionate about and suing the correct data and visualization share your passion, not fear, with others.