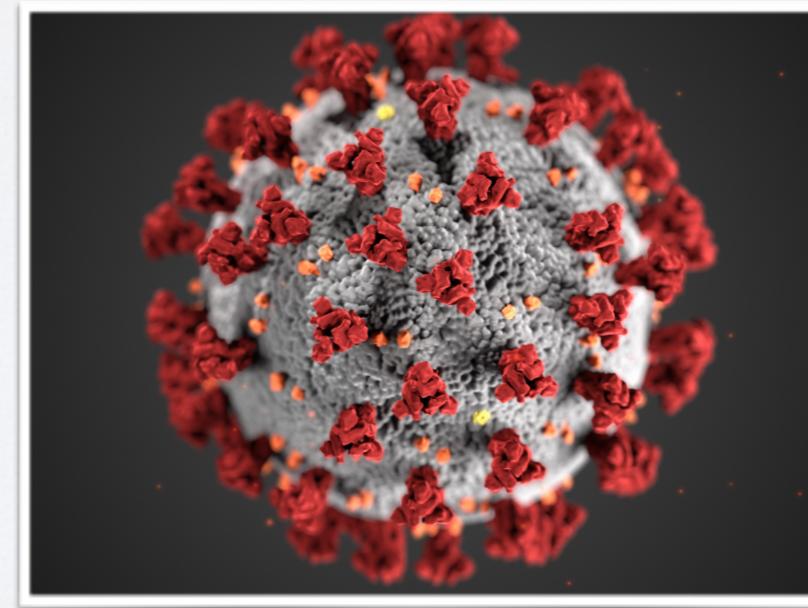


San Francisco Bay Area Hospitals and Food Venues Study

IBM Capstone Project using Foursquare



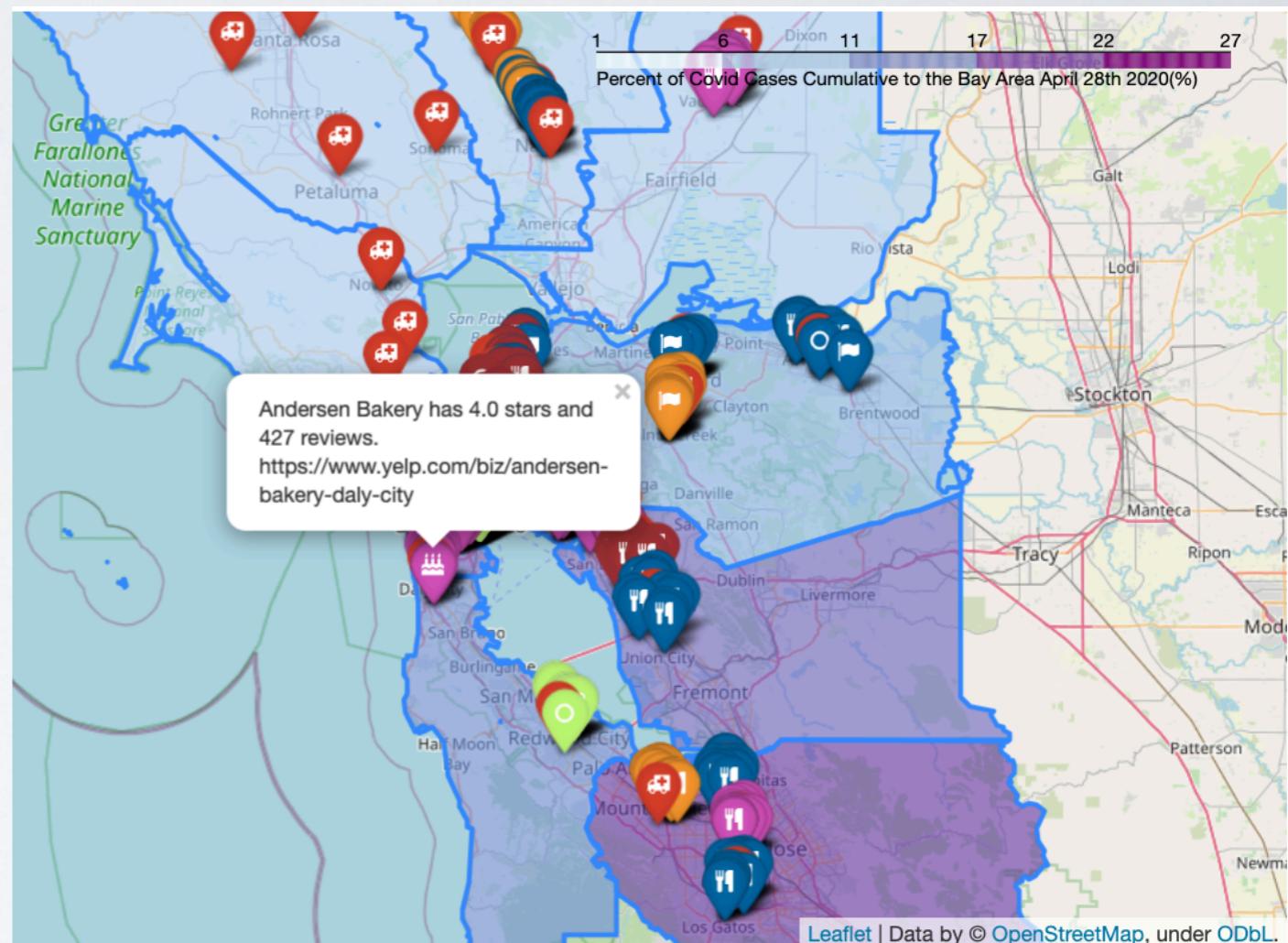
WHY?

The COVID-19 novel coronavirus hit regions of the United States in different ways. Essential workers, many of whom are healthcare workers are working hard to support their communities. Let's let the communities support them by sending healthcare workers gift certificates to local food venues.



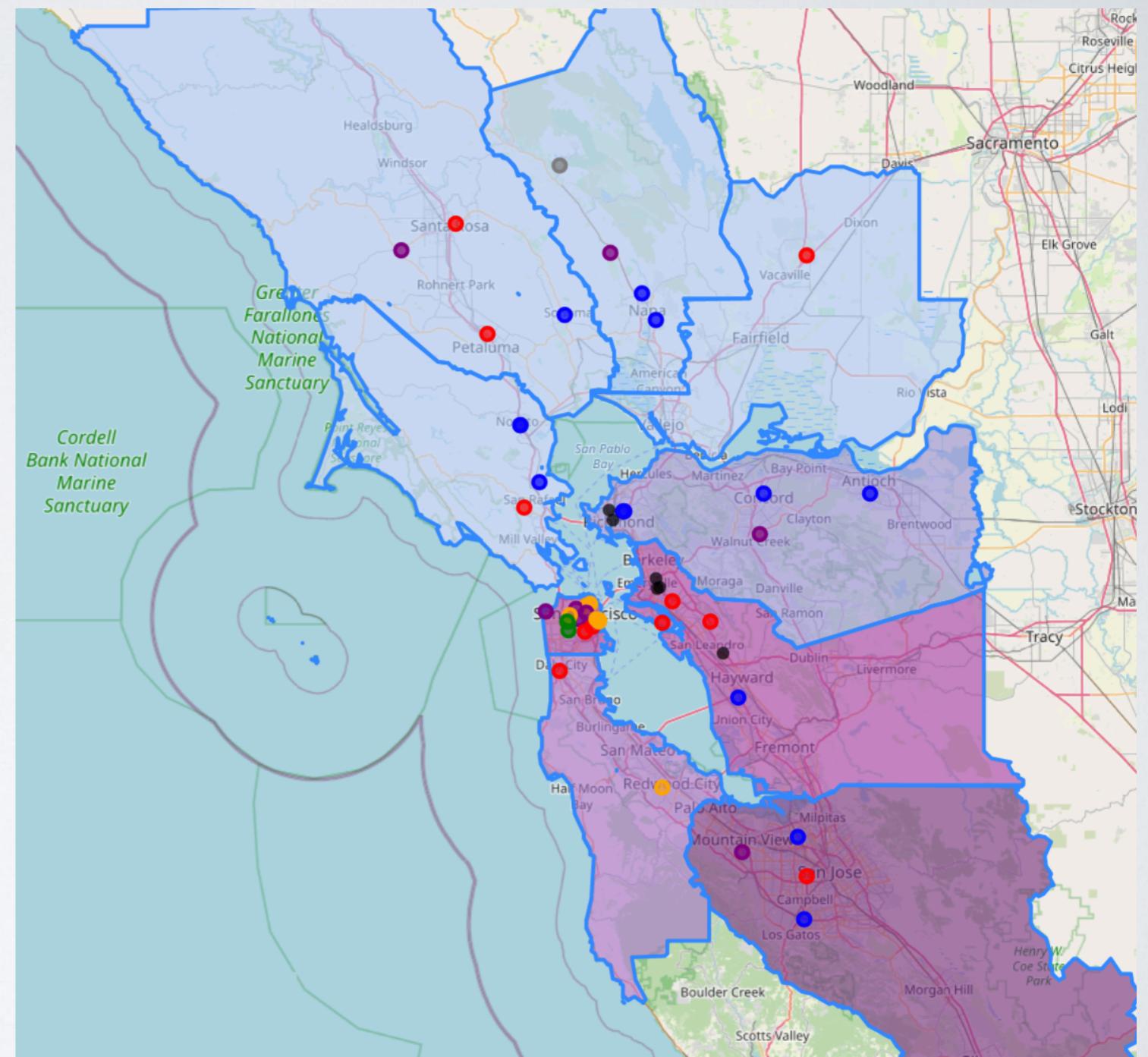
WHAT?

- This project finds local hospitals, finds the local food venues nearby, lists their yelp ratings and reviews and provides a link to yelp with delivery and purchase information via an interactive Folium map.



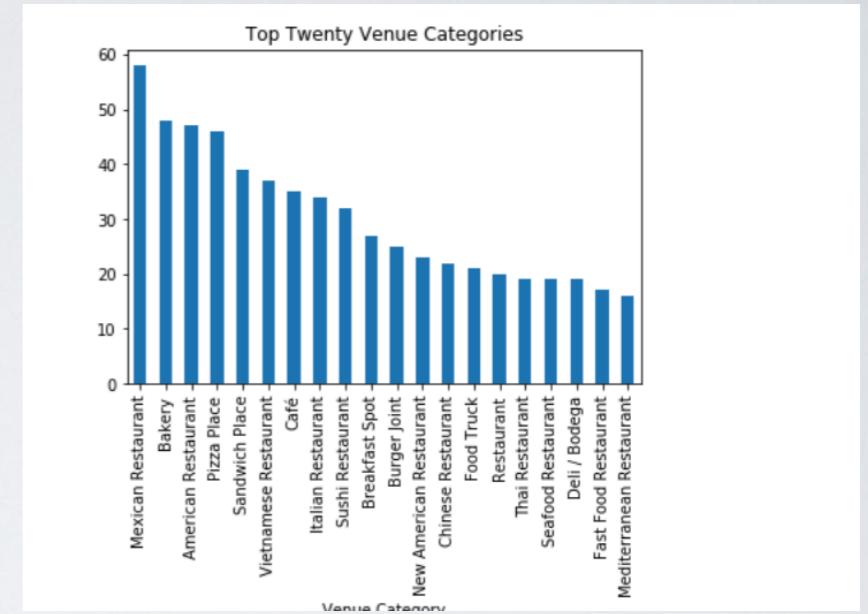
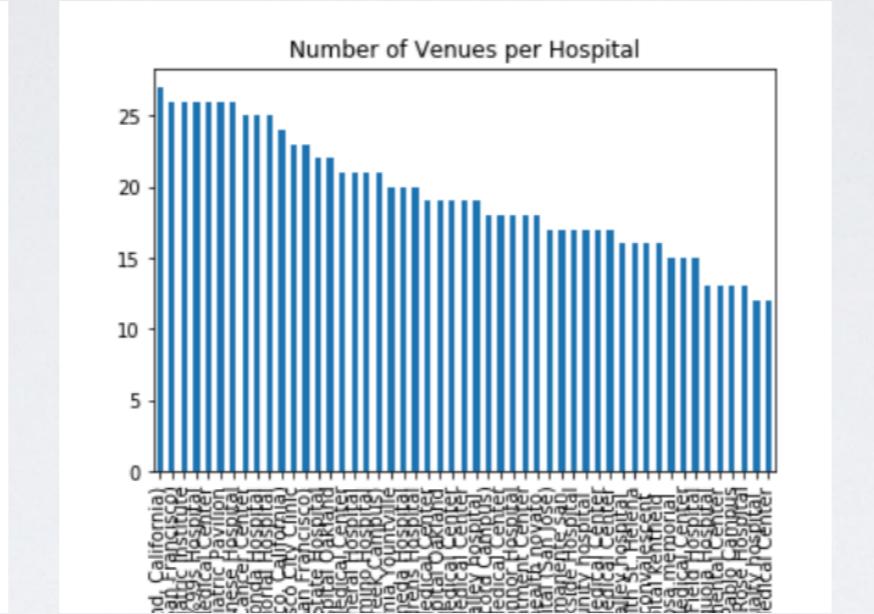
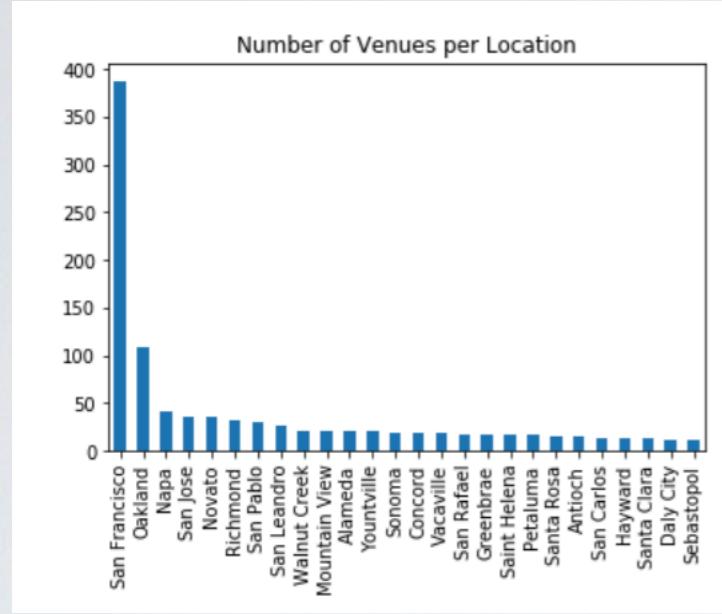
HOW?

- Webscrapes
 - Wikipedia
 - Yelp
- Foursquare
 - API calls
 - Food Venue Geolocation
- K-means Clustering
- Data Analysis
- Data Visualizations

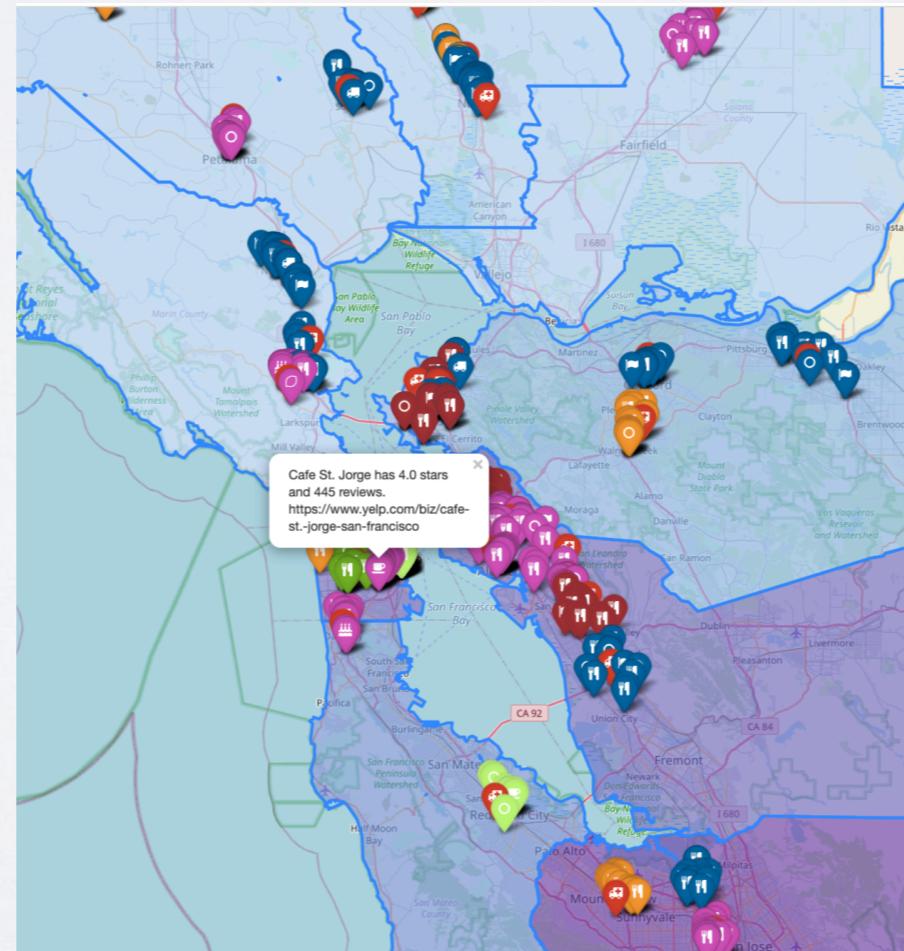


Hospital Clusters, k=7

RESULTS



San Francisco has the most hospitals, and thus the most venues. It contains a unique cluster group (green).



The top common venue category for any hospital cluster was a Mexican restaurant

See report for
Cluster analysis

NEXT STEPS

This project is a basic snapshot of the SF-Bay area and its food vendors. No major patterns or conclusions were made, but there is a strong base for further analysis and project ideas.

Further project ideas including the ratings and number of reviews in the clustering models, weighting venues by the hours open (and alignment to shifts at hospitals). It could also include more information on employment and occupations in the counties, and even transit information (do most health care workers live in the counties they work in).

My next step is to take the information and post it online somewhere in the case that good-hearted individuals could send gift cards or takeout to hospitals in the area to cheer on the coronavirus efforts and help restaurants and food workers in the area.