COURSERA CAPSTONE PROJECT

By Chris Saldana

Background

 Where to open a new independent pizzeria in San Antonio?



Introduction

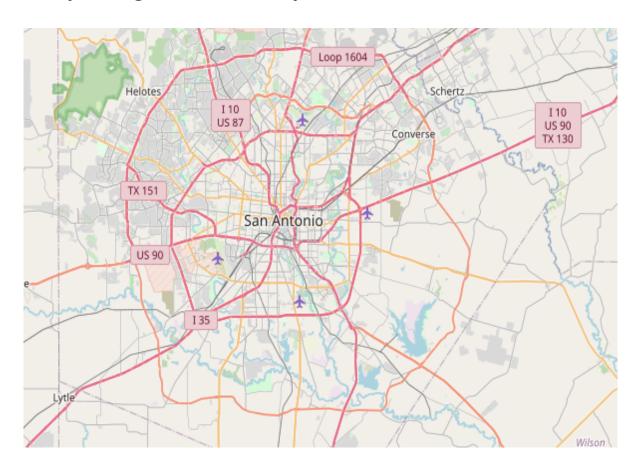
- Location is the most important aspect of a new restaurant
- Desired Qualities
 - Nice area of the city
 - Minimal direct competitors
 - Reasonable rent prices
- Analysis to use Foursquare API and Python Notebook to perform K-Means clustering

Data

- San Antonio zip codes
- Foursquare venue information
 - Pizza Places in San Antonio (30 mile radius)
 - Latitude and longitude coordinates
- Python libraries for geocoding

Methodology – SA Map

Utilize Python geocoder library

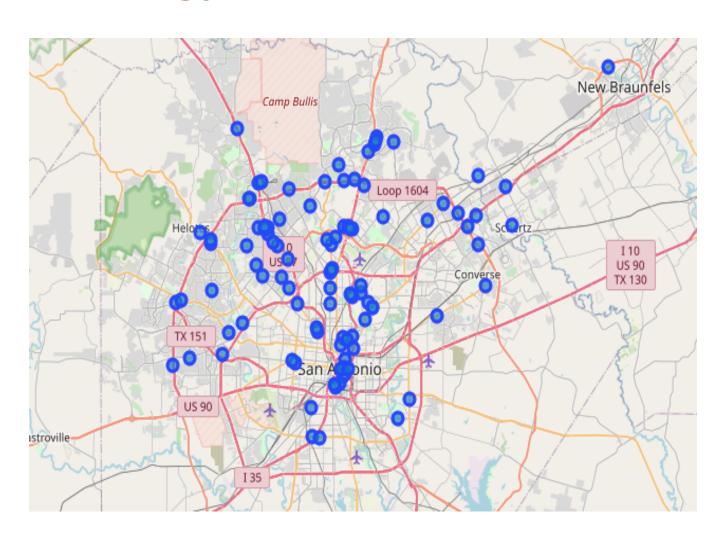


Methodology – SA Pizza Places

- Utilize Foursquare API call
- 10 displayed below, 99 in total

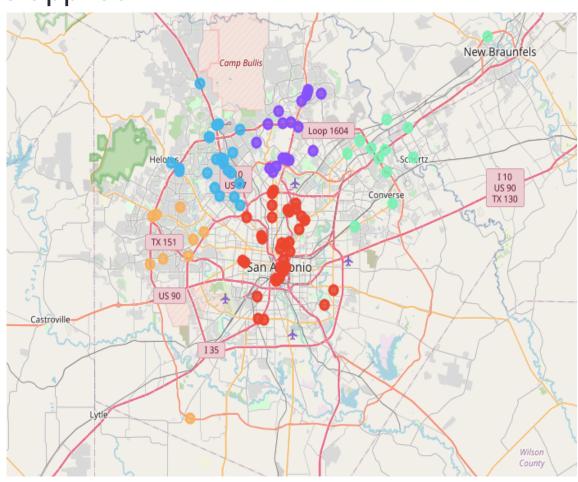
	name	categories	lat	Ing
0	Barbaro	Pizza Place	29.455675	-98.491693
1	DOUGH Pizzeria Napoletana	Pizza Place	29.519182	-98.507337
2	Florio's Pizza	Pizza Place	29.499785	-98.467363
3	Main St. Pizza	Pizza Place	29.447439	-98.494090
4	The Station Cafe	Pizza Place	29.417457	-98.490465
5	Pizza Classics	Pizza Place	29.456757	-98.479276
6	Pizza Italia	Pizza Place	29.575156	-98.439420
7	Grimaldi's Pizzeria	Pizza Place	29.495976	-98.478831
8	Stella Public House	Pizza Place	29.409961	-98.495550
9	Alamo Pizza	Pizza Place	29.385755	-98.532876
10	California Pizza Kitchen	Pizza Place	29.497705	-98.481490

Methodology – Plot Venues



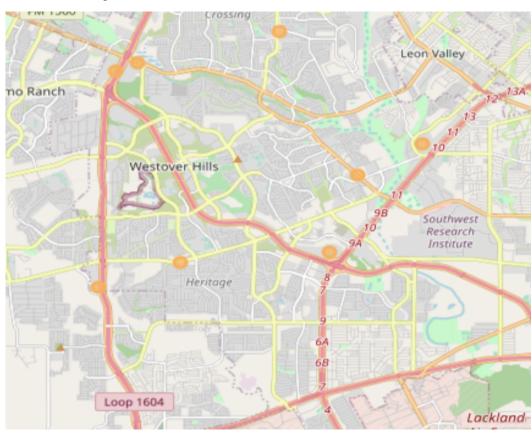
Methodology – K-Means

5 clusters applied



Results

 Cluster 4 (Northwest SA) appears desirable due to lowdensity of competitors



Conclusion

 Choose NW San Antonio to open a new independent pizzeria

- Attributes satisfied
 - Low-density of direct competitors
 - Attractive part of San Antonio
 - Reasonable rent prices

Thank you!