

A close-up photograph of a bamboo steamer basket filled with dumplings. The dumplings are arranged in a circular pattern, with some showing a golden-brown, slightly crispy top. The bamboo basket is dark and has a woven texture. A dark, semi-transparent rectangular text box is overlaid on the center of the image, containing the title and author's name in white serif font.

Predicting the Best Place for Chinese Restaurant in Toronto

Steve Daniels

Background

Chinese cuisine is a great food for people in Toronto, especially during winter season, because it contained various spices. In reality, there are only small number of restaurant that served Chinese cuisine there. So, it is a good idea to open an Chinese restaurant in Toronto. It is quite challenging to find a place or area to open the Chinese restaurant. This project will help the entrepreneur to find the most suitable location.

Data

- ◇ List of neighborhoods in Toronto from Wikipedia
- ◇ Coordinate data of Toronto from Geospacial data
- ◇ Nearby venue list of Toronto neighborhoods from Foursquare API

Methodology

- ◇ Scrapping and cleaning Toronto neighborhood data
- ◇ Combining neighborhood data and coordinate data



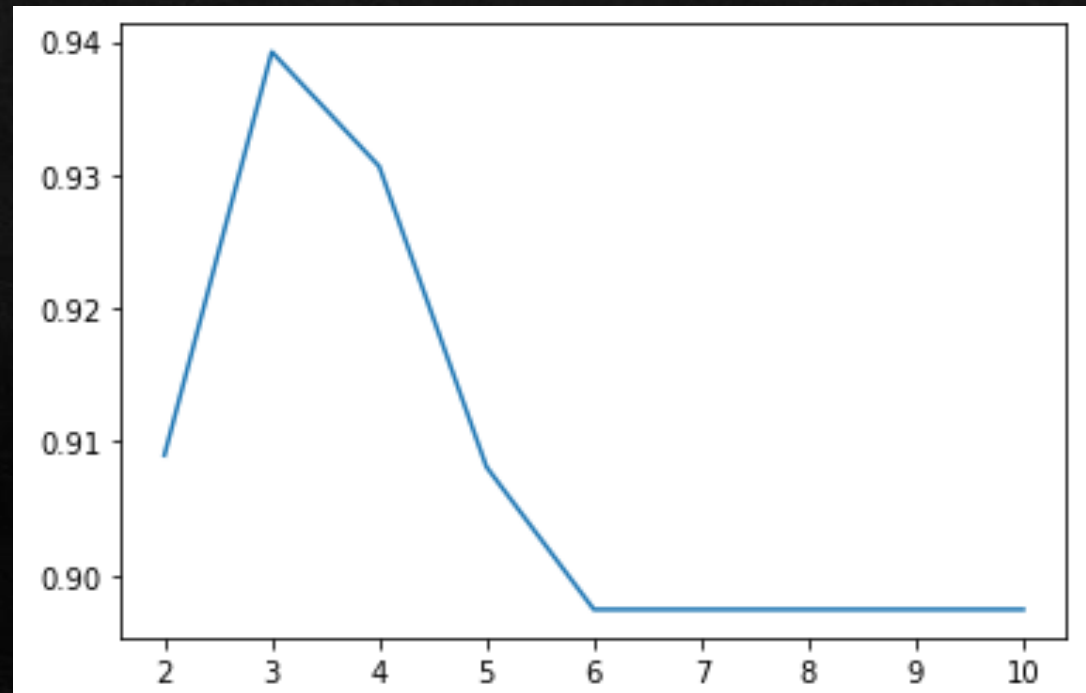
Methodology

- ◆ Get nearby venues for each of Toronto neighborhoods
- ◆ Get occurrence of Chinese Restaurant for each neighborhoods

	Neighborhoods	Chinese Restaurant
0	Berczy Park	0.0
1	Brockton, Parkdale Village, Exhibition Place	0.0
2	Business reply mail Processing Centre, South C...	0.0
3	CN Tower, King and Spadina, Railway Lands, Har...	0.0
4	Central Bay Street	0.0

Methodology

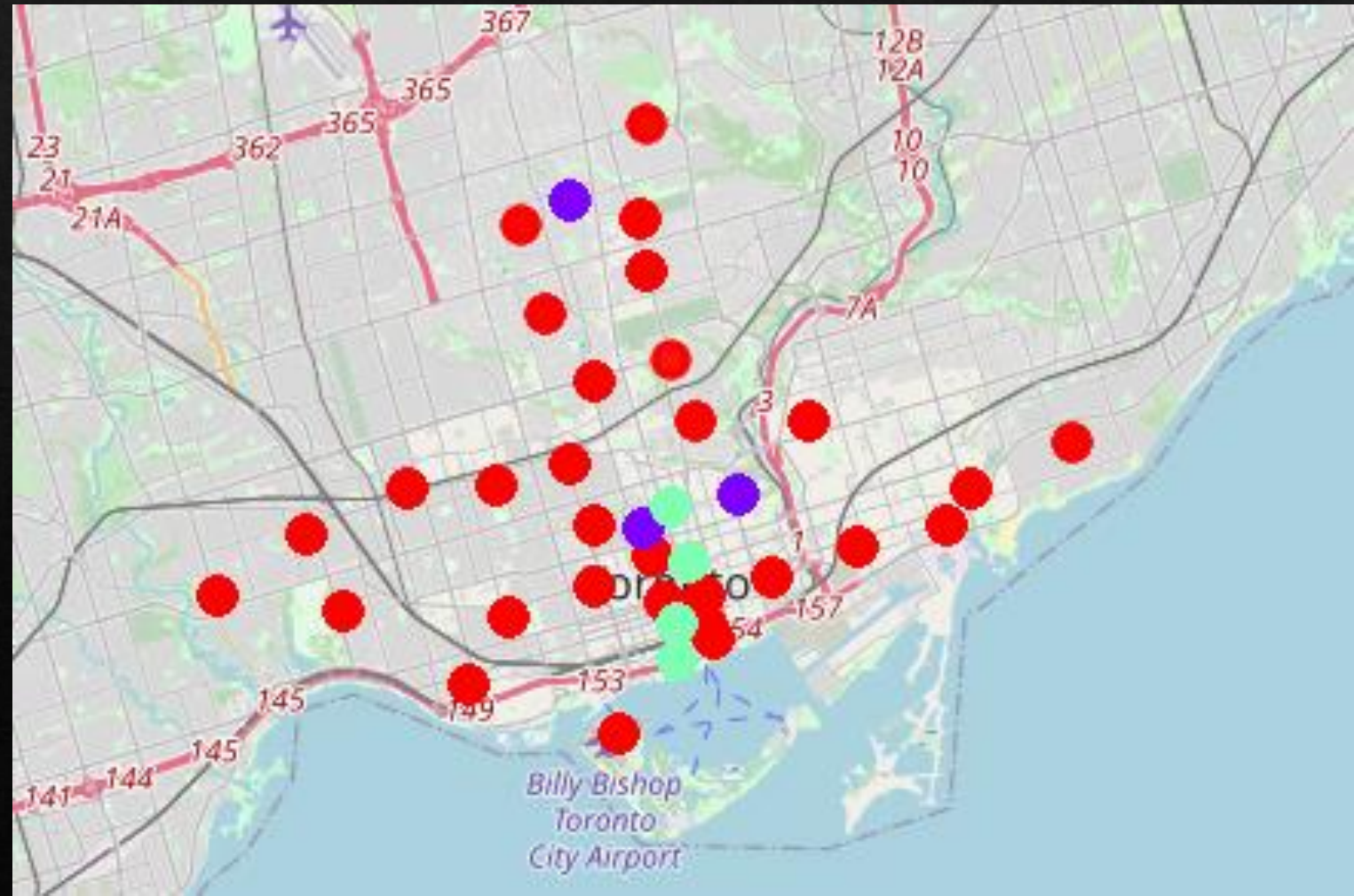
- ◇ Simulation using Silhouette Score to determine best number of cluster
- ◇ Clustering neighborhoods using Kmeans



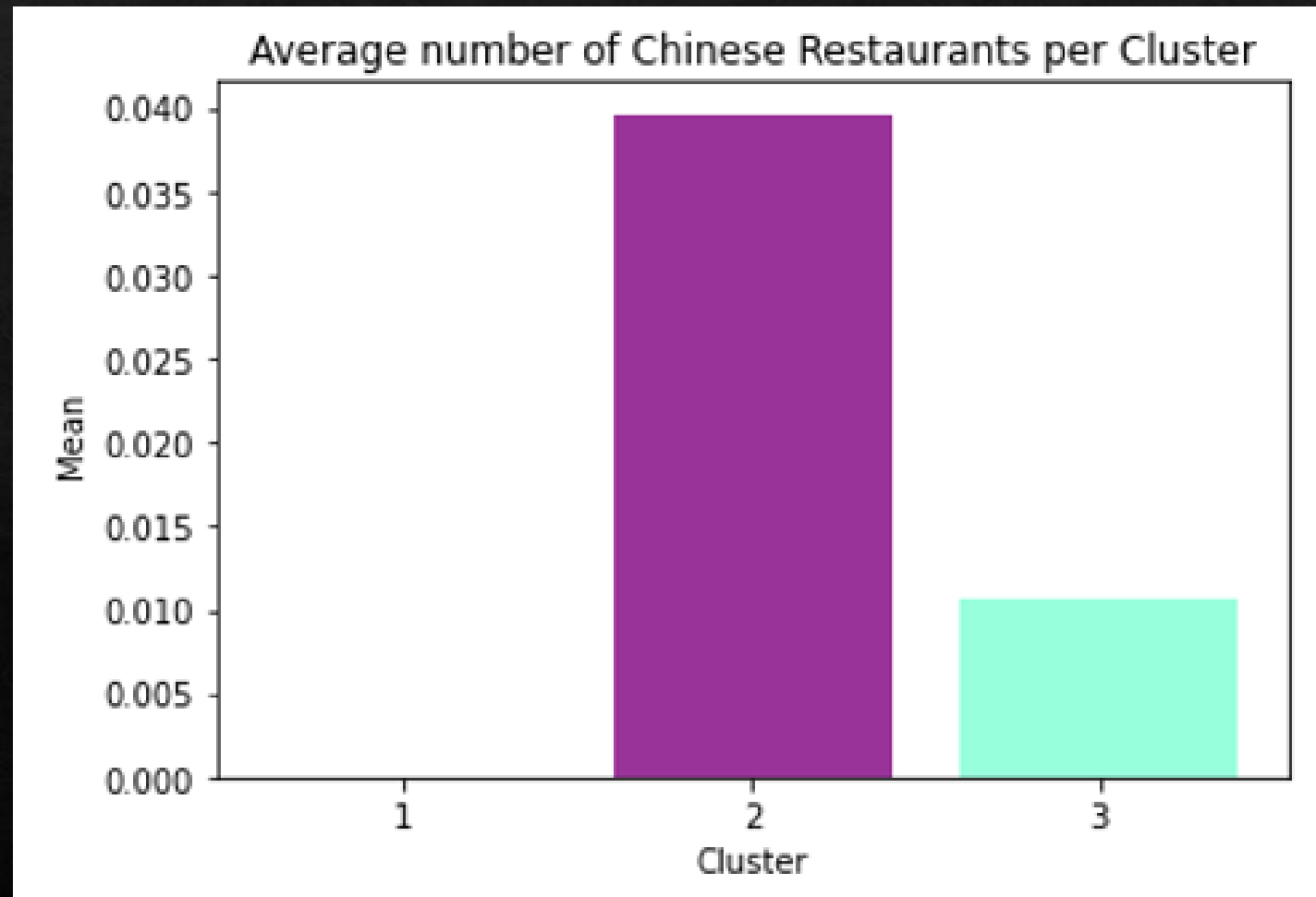
Result

Mapping

- ◆ Cluster 1 : Red
- ◆ Cluster 2 : Purple
- ◆ Cluster 3 : Blue



Result



Conclusion

The conclusion is, the best location to open Chinese Restaurant is in cluster 1 around The Beaches, Stn A PO Boxes, Central Bay Street, and other location located in cluster 1 because cluster 1 has the least dense Chinese restaurant in the area. There are only several Chinese Restaurant in Toronto, so I think it is a good idea to present restaurant that serve Chinese cuisine, especially in neighborhood without Chinese Restaurant to eliminate competition.