Predicting Similar Neighborhoods

Predicting neighborhoods in Brooklyn that are similar to neighborhoods in Toronto

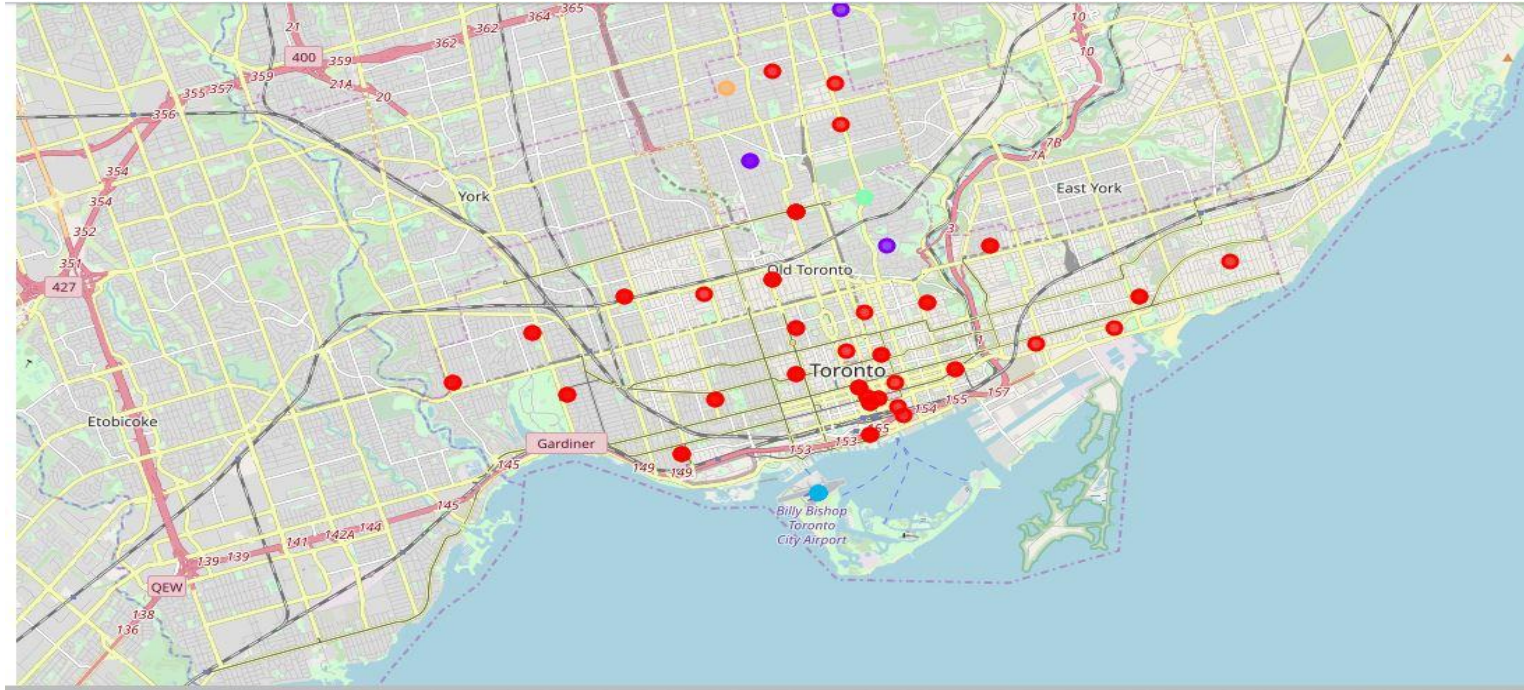# Businesses thrive in similar neighborhoods

- When planning to expand a business to an unknown or new neighborhood it helps if we can predict if the business runs without any losses based on the neighborhood.
- How successful a business can be also depends on the other factors that define a neighborhood
- Based on data from existing neighborhoods we can group the new neighborhoods into similar groups.
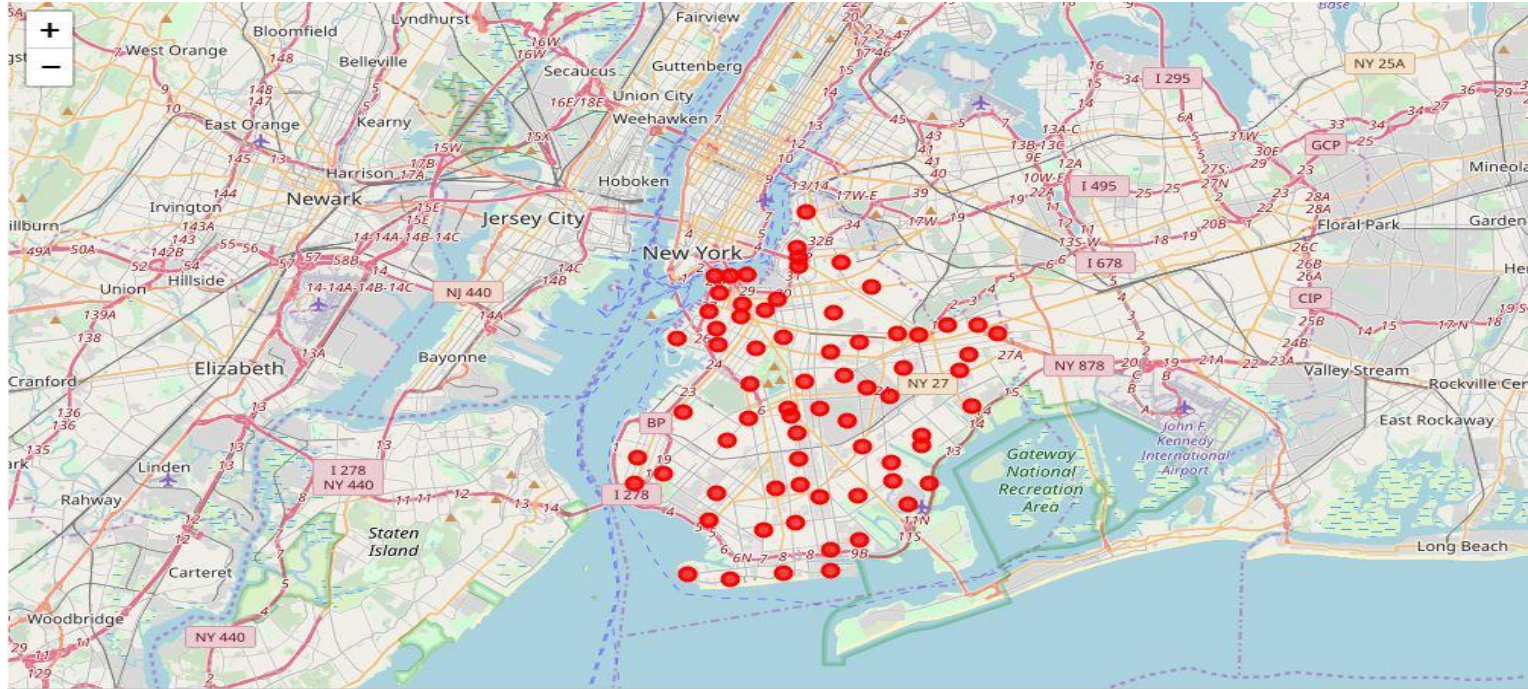
Data acquisition and cleaning

- Scraping wikipedia page for the data about neighborhoods in Toronto.
- Using FourSquare developer API to retrieve information about different venues around each neighborhood.
- Using only the required features for our modeling and using one hot encoding to create a well built Feature set.

Clustering using KMeans

Using the model to cluster neighborhoods in Brooklyn

Conclusion

From the modeling I was able to see that most of the neighborhoods around Brooklyn are falling under cluster one of Toronto neighborhood clusters, this shows that the businesses in that particular cluster of neighborhoods in Toronto will do well in the neighborhoods around Brooklyn