

# IBM Data Science Capstone Project

## Coursera

Keivan Mokhtarpour  
m.keivan73@gmail.com

Coursera Online Platform

August 17, 2020

## ► Introduction



## ► Business Problem



# Data



WIKIPEDIA  
The Free Encyclopedia

Figure: List of Postal Codes



Figure: Geocoder Package



Figure: Foursquare API

# Methodology



Figure: Web Scraping with Request HTTP library

Folium



Figure: Map Visualizer Tool (Folium)

**K-MEANS  
CLUSTERING**



Figure: Clustering Algorithm

# Results

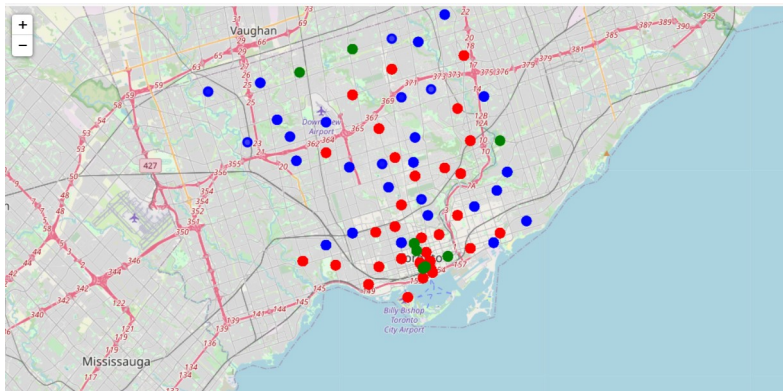


Figure: Cluster 0: Neighborhoods with a high density of coffee houses.  
Cluster 1: Neighborhoods with the least number of coffee houses. Cluster  
2: Neighborhoods with a limited number of coffee houses.

# Recommendations



Figure: North York

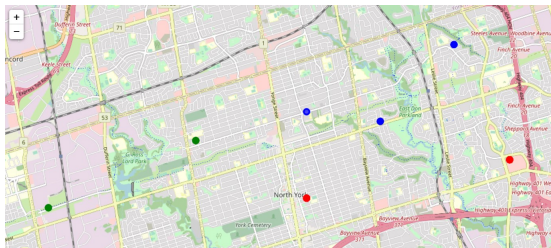


Figure: Willowdale (Cummer Ave.), Newtonbrook and Bayview village