## Recommender System

IBM DATA SCIENCE CAPSTONE

#### Introduction

- The skills of a data scientist are not limited to any field rather, they can be used to solve real world problems using data analysis insights.
- ► The location of the warehouse plays a very important role in the profits of the contractor.
- A groceries contractor, therefore, needs to be very decisive with where he places one of his warehouses.
- However, there are many factors which he needs to take into consideration to maximize his clients and therefore his profits.



#### Assumptions

All types of groceries are sold

All restaurants require all types of groceries

Food joints are considered as restaurants

#### Data Requirements

- ▶ [Postal Code]
- ► [Neighborhood(s)]
- [Neighborhood Latitude]
- ► [Neighborhood Longitude]
- [Venue] [Venue Summary]
- [Venue Category]
- [Distance (meter)]



#### Methodology

Gather Data  Data collection of all the neighborhoods in the desired borough

Connect

 Connect Foursquare API and extract venue data and fliter using the list of neighborhoods in the Borough

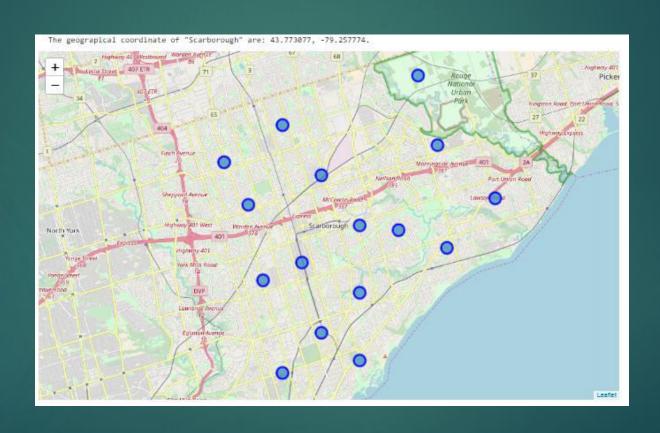
Data Prepping  Prep the Data for an initial EDA and using One-Hot Encoding of the venue categories for the ML model

Choose Model  Choose the correct type of model ie Clustering, Classification, etc

Results

Getting the results and visualizing the insights

### Neighborhoods in Scarborough



# Recommendation based on analysis

