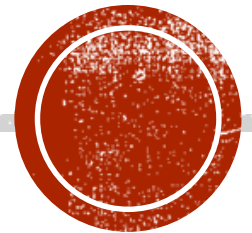


THE BATTLES OF NEIGHBORHOODS



INTRODUCTION

- Toronto city overview for Christos' Greek Grocery
- Christos' Greek Grocery Strategic Plan and Overview
- Christos' Greek Grocery Business Problem
 - Choice of the first neighborhood to offer services.
 - The neighborhood should enable easy replication.
 - The neighborhood should have high demand.
 - The neighborhood should have lower competition.
- Success Criteria:
 - Good recommendation of neighborhood that meets above points.
 - It should have capability to enable latest information whenever required.



DATA DESCRIPTION

- • Data Requirements for this project:
 - Neighborhood Information (i.e. name, coordinates, populations).
 - Venue information (i.e. name, category, coordinates)
- • Data Sources for this project:
 - Wikipedia Pages
 - Foursquare.com
- • Data Processing for this project:
 - Data cleaning is required
 - Data needs to be in a structured format



METHODOLOGY

- • Data Scrapping Technique
 - To scrap the neighborhood data from Wikipedia
 - To make the data into a structured format
- • Foursquare.com
 - Retrieving venue information from above API.
- • K-Means Machine Learning
 - Segment and cluster similar neighborhoods
 - Group them based on most common venues
- • Scoring Weightage
 - Population count has 50% weightage
 - Venue (fewer grocery) has another 50% weightage



RESULT

- • Clustering Similar Neighborhoods
 - Grouping based on common venues
- • Neighborhood with high population
 - Ranking the neighborhoods based on population count
- • Topmost common venue
 - Ranking the neighborhoods based on common venue w/o Grocery



DISCUSSION

- • Result Review:
 - First cluster looks to offer the best business expansion opportunity.
 - Humbermede neighborhood in the first cluster looks to meet the key business criteria whereby it will offer the highest demand (i.e. high population) and lowest competition (i.e. lower supply).
- • Additional Observation:
 - High number of Punjabi people.
 - Worthwhile to consider Punjabi food or related supplies offering in this neighborhood.



CONCLUSION

- • Recommendation Summary:
 - Region: First Cluster.
 - Neighborhood: Humbermede
 - Additional Offering: Punjabi food or related supplies.
- • Additional Note:
 - Re-run of the program is encouraged to get latest information.
 - Updated information is critical to consider as part of business expansion plan.

