Determining a Restaurant Location

Applied Data Science Capstone

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Situation

- North York is the fastest growing cities in Toronto, Ontario, Canada
- North York is a cross-section of inhabitants which includes students and long-time residents, giving the city an eclectic feeling of being both local and international.
- According to the North York City 2016 Census of Toronto Community Council Area Profiles, this multicultural and multiracial city has a population of 691,595 with a population growth of eight percent.

North York Rise and Grind

- North York Rise and Grind will appeal to the millennial customer of North York's eclectic vibe, with the following location criteria.
 - Bakery
 - Boutiques
 - Coffee Shops
 - Cafe

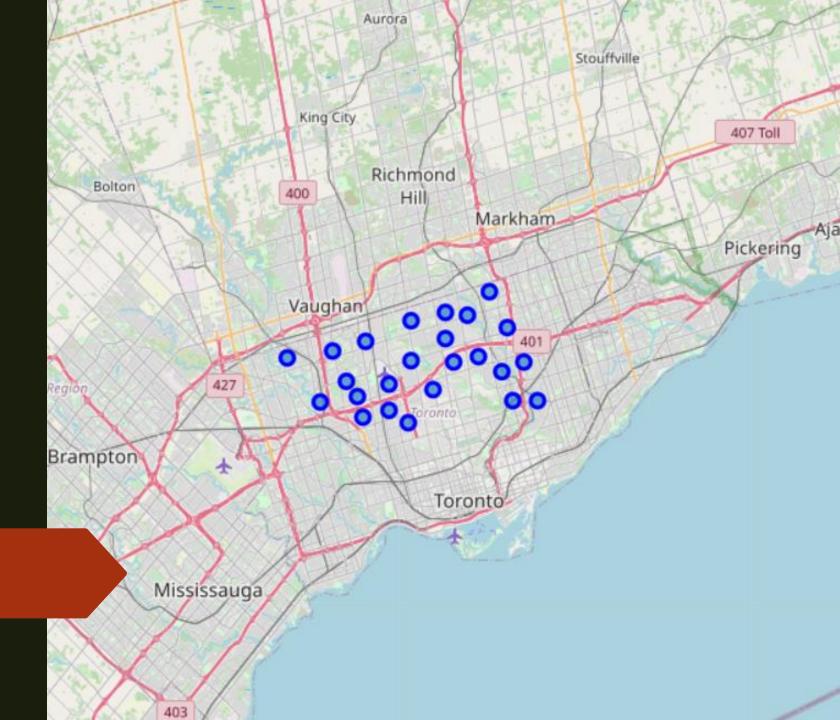
Data Sources

- Canada census data for 2011 and 2016 by providence, territory, city and neighborhood was acquired from Statistics Canada
- Canada neighborhood postal codes were obtained from Wikipedia
- Geospatial coordinates were acquired from the Coursera Capstone Course
- Venue data from Foursquare

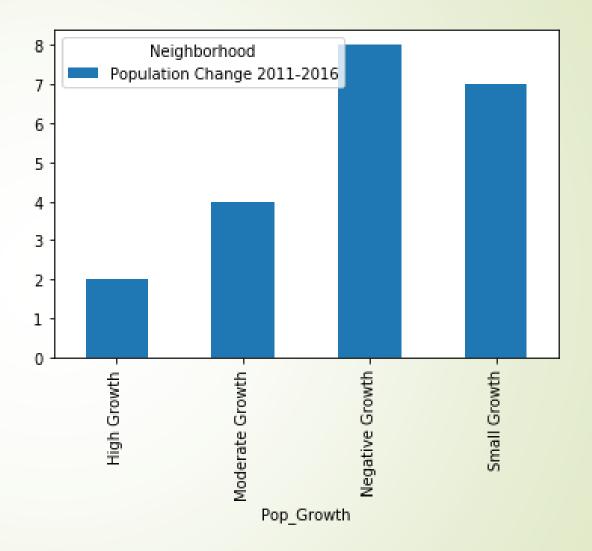
Data Cleaning

- Canada census data for 2011 and 2016
 - Id
 - neighborhood
 - characteristic (census question)
- Canada neighborhood postal codes
 - Postal code
 - borough
 - neighborhood
- Geospatial coordinates
 - postal code
 - latitude
 - longitude

North York Neighborhoods

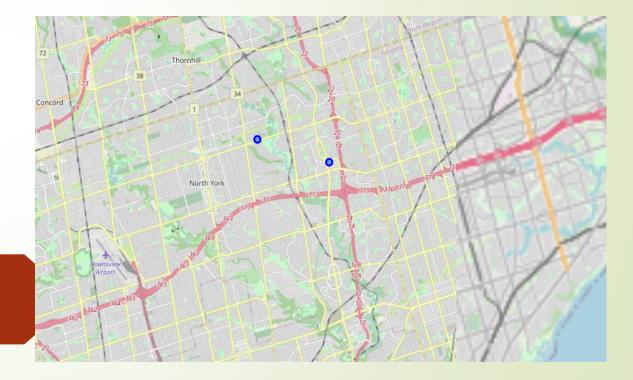


North York
Neighborhood
Population
Change



Most Likely Neighborhoods

Neighborhood	Population Growth Percentage	Population Growth Category		
Bayview Village	21.10%	High Growth		
Henry Farm	38.70%	High Growth		



Neighborhood	Bakery	Boutique	Breakfast Spot	Café	Coffee Shop
Fairview, Henry Farm, Oriole	2	1	0	0	5
North Park, Maple Leaf Park, Upwood Park	1	0	0	0	0

Venues

Fairview,
Henry Farm,
Orieole
Venues

Venue	Category	
Michel's Baguette	Bakery	
Starbucks	Coffee Shop	
Aroma Espresso Bar	Coffee Shop	
Tim Hortons	Coffee Shop	
Tim Hortons	Coffee Shop	
Tim Hortons	Coffee Shop	
BCBG Max Azria	Boutique	
Michel's Baguette	Bakery	

Fairview, Henry Farm, Orieole

Neighborhood	Coffee Shop	Rating	Tips
Fairview, Henry Farm, Oriole	2	6.8	Coffee is really good. A little bit noisy, but still a nice place to relax in the mall

Conclusion

Venue clustering was used to determined that Henry Farm is the best location to open the restaurant given its increase in population growth and venue categories, as well as the little to no competition.