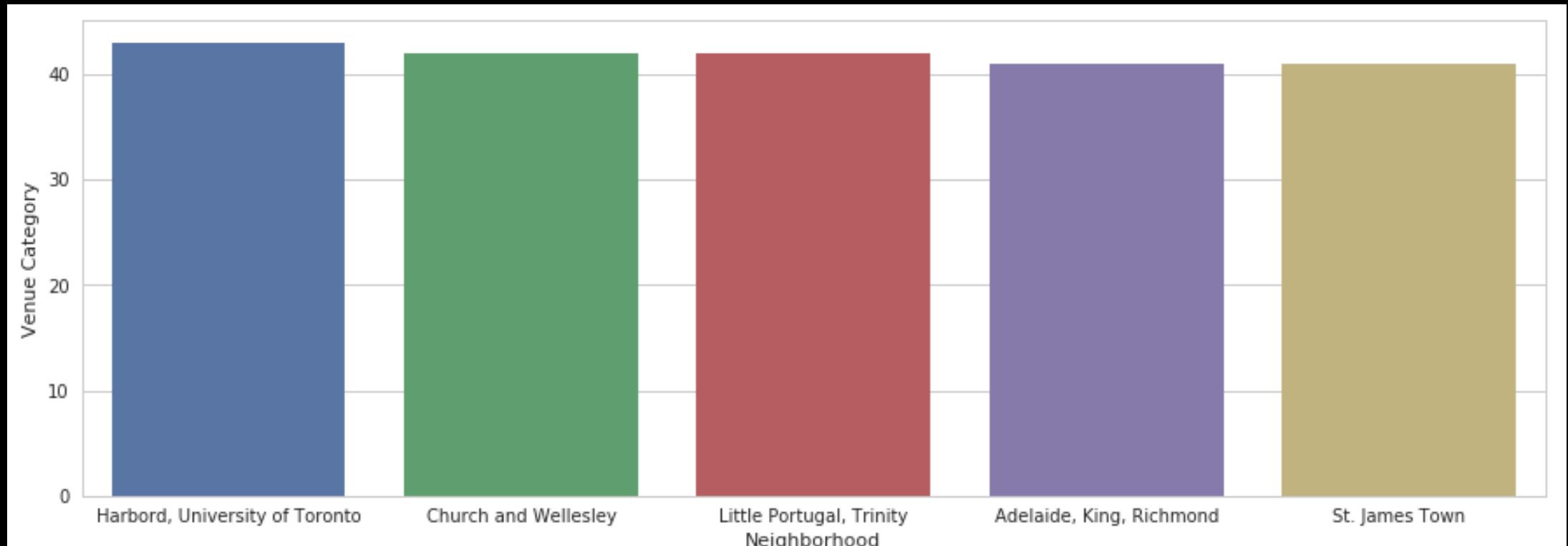# THE RESTAURANT CAPITAL OF TORONTO

GOALS

- Name a neighbourhood as the Restaurant Capital of Toronto
  - Highest number of unique restaurants type
- Create and name five distinct neighbourhood groups
  - Use machine learning
  - Groups should contain neighbourhoods with similar restaurant types
- Data will be used to create marketing/social media campaign
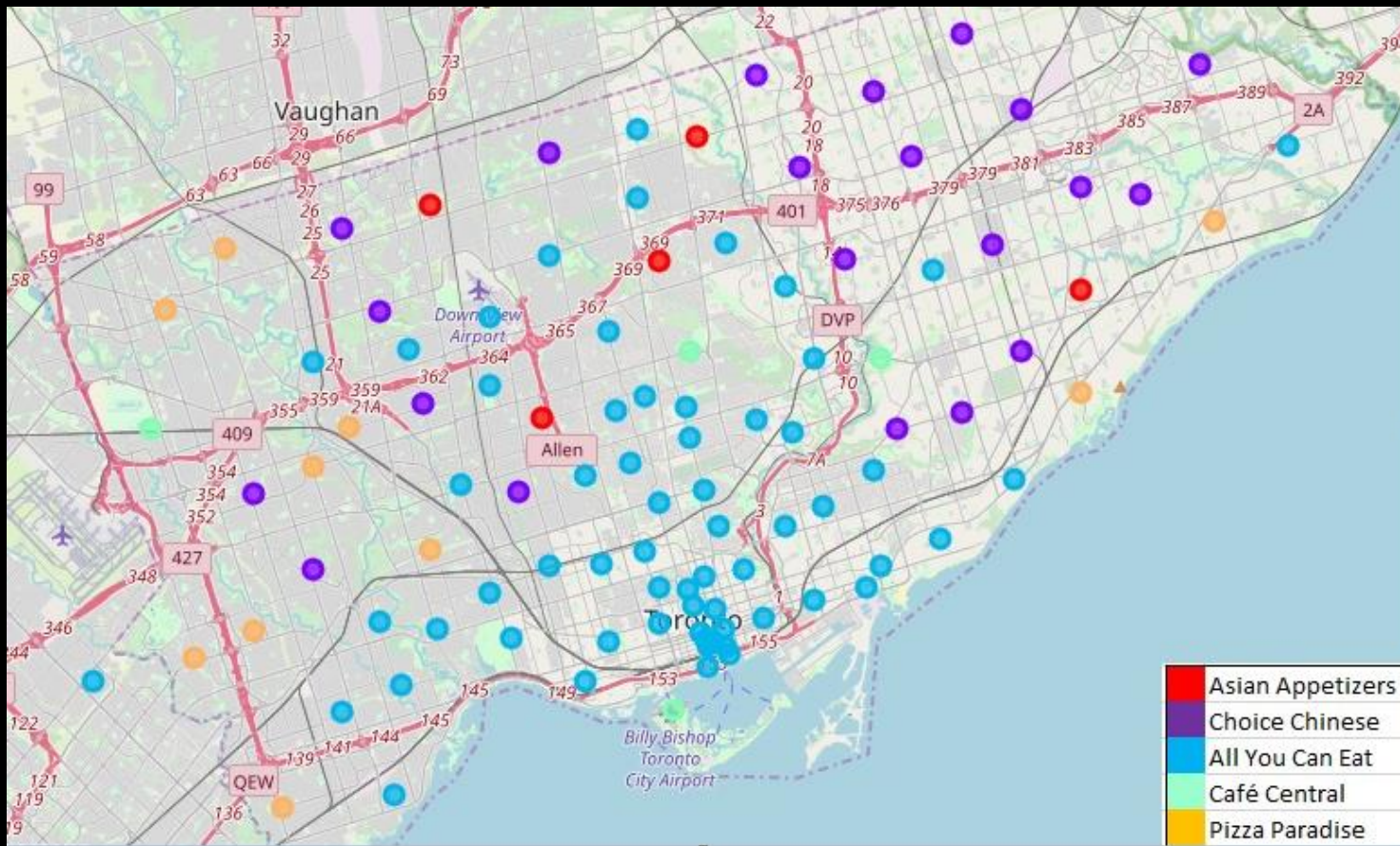 - Targeted towards foodies and restauranteurs

DATA

- Toronto postal code, neighbourhood data
  - Scraped from Wikipedia

- Toronto postal code, GPS coordinates
  - Pulled from CSV file

- Nearby restaurant recommendations and categories
  - Pulled from Foursquare

RESTAURANT CAPITAL

- Harbord, University of Toronto was the neighbourhood with the highest variety of restaurant types

KMEANS CLUSTERING

- Created five clusters of neighboords

- Grouped by common types of restaurants

CLUSTER 0 – ASIAN APPETIZERS

	Neighborhood	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue
5	Scarborough Village	0	Restaurant	Sandwich Place	Japanese Restaurant	Pizza Place	Fast Food Restaurant
19	Bayview Village	0	Japanese Restaurant	Chinese Restaurant	Café	Fast Food Restaurant	Wings Joint
23	York Mills West	0	Restaurant	Chinese Restaurant	French Restaurant	Pizza Place	Wings Joint
29	Northwood Park, York University	0	Pizza Place	Restaurant	Sushi Restaurant	Sandwich Place	Fast Food Restaurant
72	Glencairn	0	Pizza Place	Italian Restaurant	Fast Food Restaurant	Restaurant	Asian Restaurant

- Asian restaurants we most common in Cluster 0

CLUSTER 1 – CHOICE CHINESE

	Neighborhood	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue
0	Rouge, Malvern	1	Fast Food Restaurant	Chinese Restaurant	African Restaurant	Caribbean Restaurant	Greek Restaurant
3	Woburn	1	American Restaurant	Indian Restaurant	Chinese Restaurant	Fast Food Restaurant	Wings Joint
4	Cedarbrae	1	Bakery	Indian Restaurant	Chinese Restaurant	Wings Joint	Fast Food Restaurant
6	East Birchmount Park, Ionview, Kennedy Park	1	Chinese Restaurant	Pizza Place	Fast Food Restaurant	Asian Restaurant	Sandwich Place
7	Clairlea, Golden Mile, Oakridge	1	Bakery	Diner	Fast Food Restaurant	Restaurant	Sandwich Place
10	Dorset Park, Scarborough Town Centre, Wexford ...	1	Asian Restaurant	Bakery	Burger Joint	Indian Restaurant	Fast Food Restaurant
12	Agincourt	1	Chinese Restaurant	Caribbean Restaurant	Restaurant	Sandwich Place	Asian Restaurant
13	Clarks Corners, Sullivan, Tam O'Shanter	1	Pizza Place	Fast Food Restaurant	Sandwich Place	Seafood Restaurant	Vietnamese Restaurant
14	Agincourt North, L'Amoreaux East, Milliken, St...	1	Chinese Restaurant	Korean Restaurant	Noodle House	Bakery	BBQ Joint
15	L'Amoreaux West	1	Chinese Restaurant	Fast Food Restaurant	Bakery	American Restaurant	Pizza Place
17	Hillcrest Village	1	Pizza Place	Diner	Chinese Restaurant	Sandwich Place	Bakery

- Chinese restaurants were most common in cluster 1

CLUSTER 2 – ALL YOU CAN EAT

	Neighborhood	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue
1	Highland Creek, Rouge Hill, Port Union	2	Breakfast Spot	Burger Joint	Italian Restaurant	Wings Joint	Doner Restaurant
9	Birch Cliff, Cliffside West	2	Diner	Restaurant	Asian Restaurant	Thai Restaurant	Café
11	Maryvale, Wexford	2	Middle Eastern Restaurant	Pizza Place	Burger Joint	Bakery	Korean Restaurant
20	Silver Hills, York Mills	2	Cafeteria	Deli / Bodega	Wings Joint	Fish & Chips Shop	Diner
21	Newtonbrook, Willowdale	2	Korean Restaurant	Café	Pizza Place	Middle Eastern Restaurant	Hot Dog Joint
22	Willowdale South	2	Pizza Place	Japanese Restaurant	Korean Restaurant	Ramen Restaurant	Fast Food Restaurant
26	Don Mills North	2	Pizza Place	Japanese Restaurant	Restaurant	Burger Joint	Mexican Restaurant
27	Flemingdon Park, Don Mills South	2	Restaurant	Japanese Restaurant	Deli / Bodega	American Restaurant	Asian Restaurant
28	Bathurst Manor, Downsview North, Wilson Heights	2	Pizza Place	Deli / Bodega	Mediterranean Restaurant	Diner	Fried Chicken Joint
30	CFB Toronto, Downsview East	2	Turkish Restaurant	Pizza Place	Italian Restaurant	Sandwich Place	Middle Eastern Restaurant
32	Downsview Central	2	Vietnamese Restaurant	Restaurant	Food Truck	Filipino Restaurant	Dim Sum Restaurant

- Cluster 2 had a wide variety of restaurants

CLUSTER 3 – CAFÉ CENTRAL

	Neighborhood	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue
34	Victoria Village	3	Café	Portuguese Restaurant	French Restaurant	Pizza Place	Greek Restaurant
44	Lawrence Park	3	Café	Restaurant	Sushi Restaurant	Fast Food Restaurant	Wings Joint
68	CN Tower, Bathurst Quay, Island airport, Harbo...	3	Café	Japanese Restaurant	Sushi Restaurant	Wings Joint	Fish & Chips Shop
102	Northwest	3	Café	Wings Joint	Fish & Chips Shop	Diner	Doner Restaurant

- Cafés were most common in cluster 3

CLUSTER 4 – PIZZA PARADISE

	Neighborhood	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue
2	Guildwood, Morningside, West Hill	4	Pizza Place	Fast Food Restaurant	Greek Restaurant	Burger Joint	Mexican Restaurant
8	Cliffcrest, Cliffside, Scarborough Village West	4	Pizza Place	Cajun / Creole Restaurant	Burger Joint	Wings Joint	Diner
81	The Junction North, Runnymede	4	Pizza Place	Fast Food Restaurant	Sandwich Place	Vietnamese Restaurant	Burger Joint
89	Alderwood, Long Branch	4	Pizza Place	Donut Shop	Sandwich Place	Moroccan Restaurant	Wings Joint
94	Cloverdale, Islington, Martin Grove, Princess ...	4	Pizza Place	Fish & Chips Shop	American Restaurant	Café	Mexican Restaurant
95	Bloordale Gardens, Eringate, Markland Wood, Ol...	4	Fish & Chips Shop	Sandwich Place	Café	Breakfast Spot	Pizza Place
96	Humber Summit	4	Pizza Place	Italian Restaurant	Bakery	Empanada Restaurant	Fish & Chips Shop
98	Weston	4	Pizza Place	Diner	Sandwich Place	Fried Chicken Joint	Café
99	Westmount	4	Pizza Place	Chinese Restaurant	Sandwich Place	Middle Eastern Restaurant	Breakfast Spot
101	Albion Gardens, Beaumond Heights, Humbergate, ...	4	Pizza Place	Sandwich Place	Fried Chicken Joint	Sushi Restaurant	Japanese Restaurant

- Pizza places were the most common type in cluster 4

CONCLUSIONS

- Harbord, University of Toronto named the Restaurant Capital of Toronto
- Neighbourhoods grouped into five clusters, based on the most common types of restaurants:
  - Asian Appetizers
  - Choice Chinese
  - All You Can Eat
  - Café Central
  - Pizza Paradise
- Data can be used to market towards foodies and restauranteurs