

WHERE SHOULD A CHEF OPEN A RESTAURANT IN TORONTO?

Capstone Project - The Battle of Neighborhoods



CONTEXT



Chef Jacques Durand



New Restaurant in Toronto



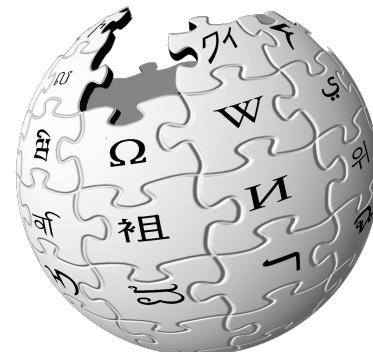
Where should I open it?

DATA SOURCES



Foursquare API

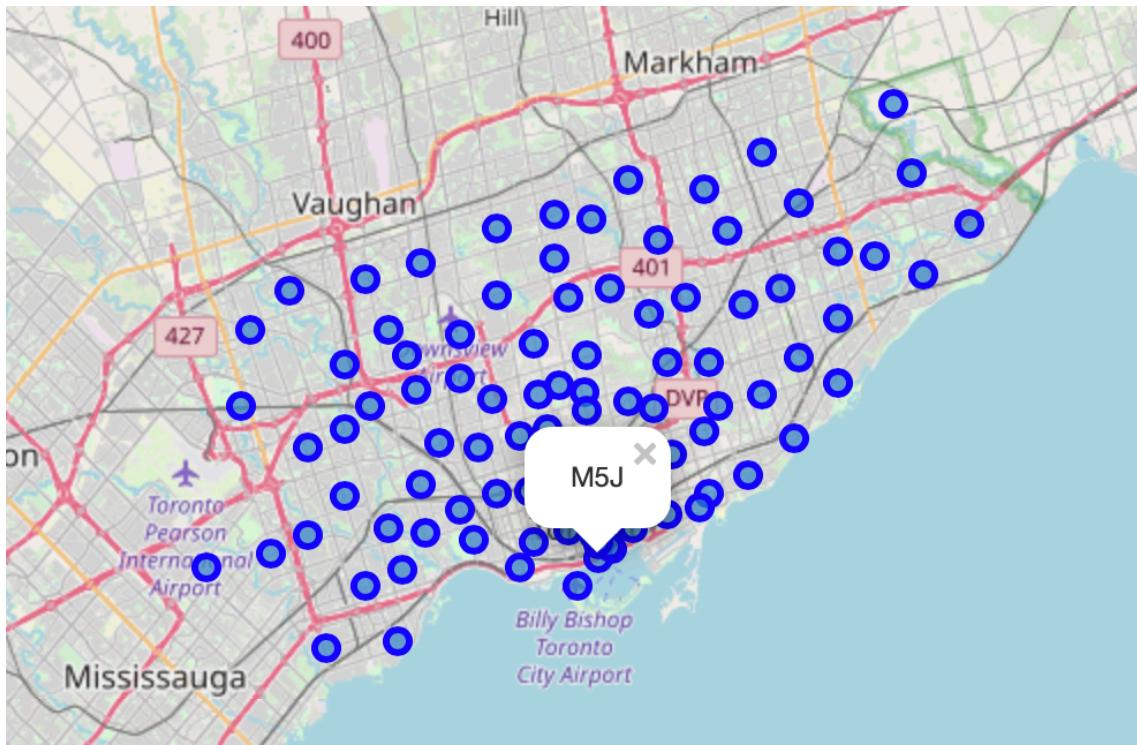
Restaurant location
and popularity



Wikipedia

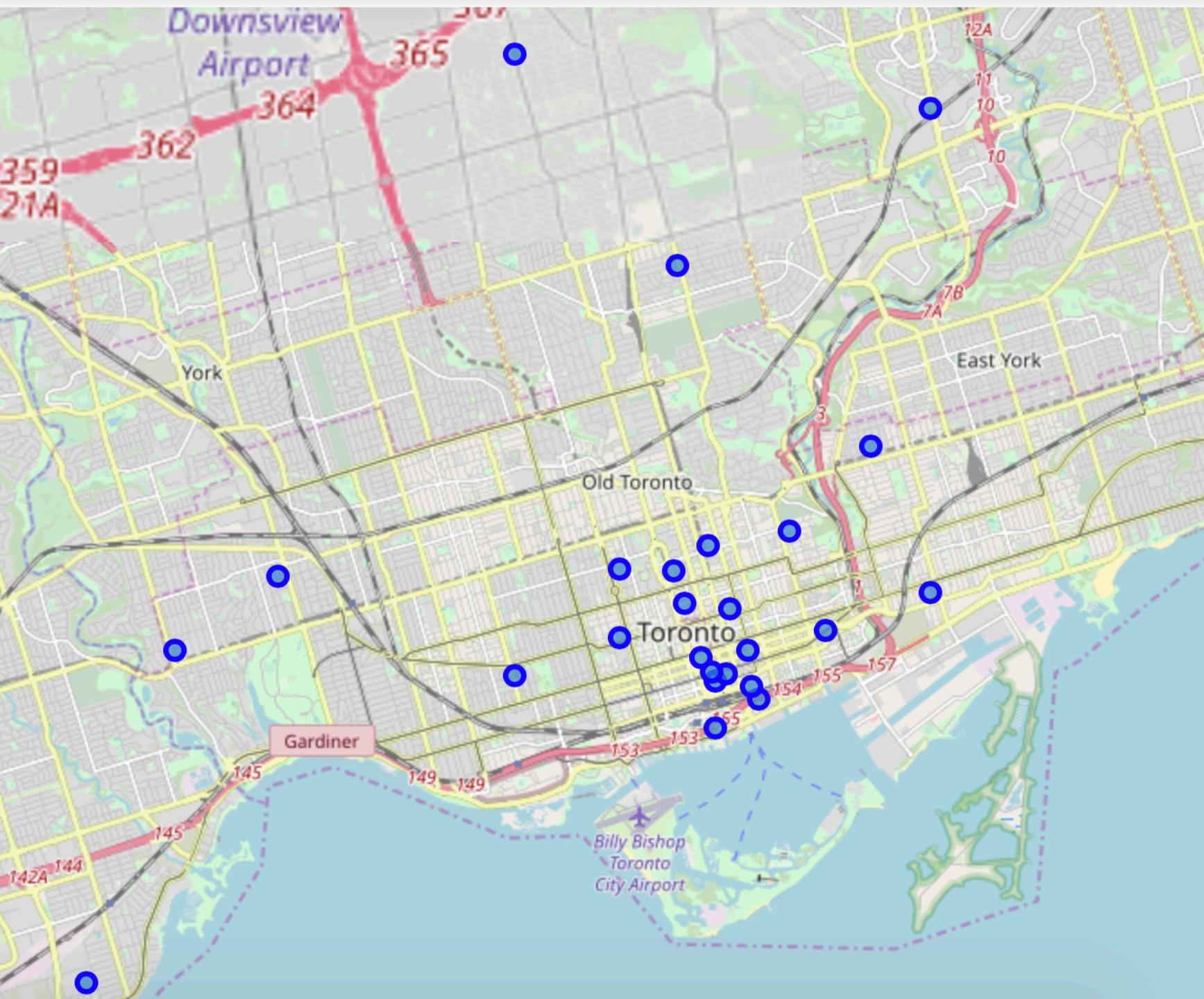
Postal Codes
and location

DATA PREPARATION



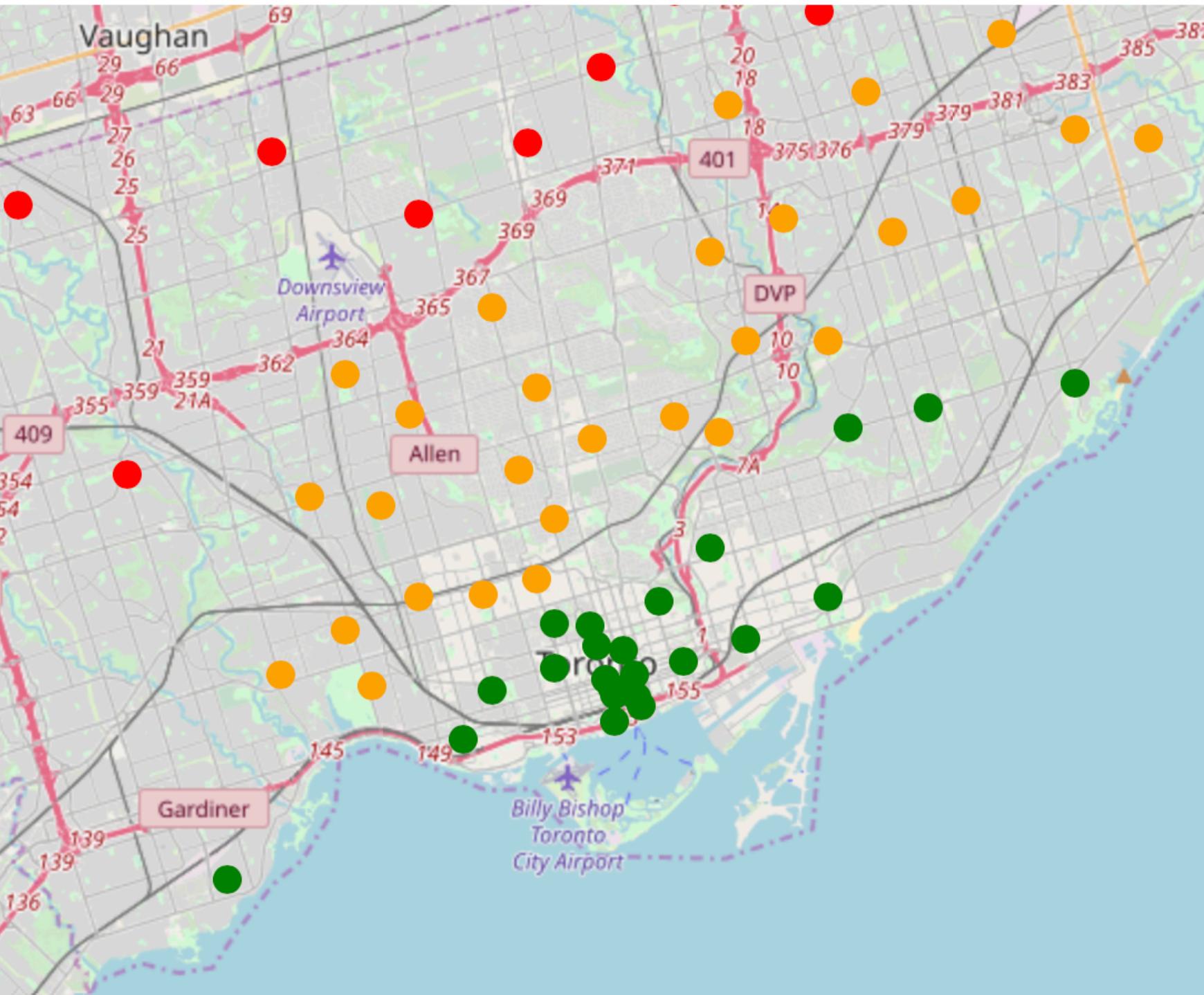
Three Steps:

1. Scrape postal code from the Wikipedia page using python library BeautifulSoup
2. Combine the extracted postal codes with their latitude and longitude
3. Use the explore Foursquare API call to get all venues associated with a Postal Code.



DATA EXPLORATION

Which neighborhoods contain the most restaurants?



DATA MODELLING

Model

- Type: Linear Regression
- X: Venue Latitude & Longitude
- Y: Venue Rating
- MSE: 2.81
- R²: 0.38

Prediction per postal code

- red = rating < 5
- orange = rating between 5 and 7
- green = rating > 7

CONCLUSION

Recommendations

- Data exploration and data modelling show consistent results
- Recommendation is to open restaurant in center city Toronto

Known limitations

- Foursquare maximum number of calls
- Limited number of success metrics
- Poorly performing model

THANK YOU

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