

Capstone Project

Introduction/Business Problem

Stakeholders have hired me to investigate of into which neighbourhood in the city of Dublin is the best to open Indian Restaurant. As a data scientist, I'll be developing a model to get some recommendation on which are to most ideal locations to invest.

I will be taking a city (Toronto), which is similar to Dublin in many ways. Toronto is also more developed in some categories, which Dublin is hoping to do in coming years. So these are one of the reasons investors are interested in opening a restaurant.

With the growing diverse population, a Indian Restaurant investment will be ideal setup if I am able to pin-point which are the best Neighbourhood to open this venture.

Data

Toronto Dataset:

- Web scrapping to obtain the data that is in the table of postal codes from https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M
- Get the latitude and longitude for each postcodes from http://cocl.us/Geospatial_data
- Downloaded Dublin town names with longitude and latitude from <https://www.irelandtownslist.com>
- Using Foursquare API, we will get nearby venues to each neighbourhood and will also group it by 'Indian Restaurant'.
- Create a model that uses number of venues in neighbourhoods except Indian restaurants inputs and number of Indian restaurant as outputs. We'll be building predictive model with SVR algorithm.
- Then use Dublin neighbourhood as target to predict 10 ideal locations to start Indian Restaurant