

Coursera Capstone

IBM Applied Data Science Capstone

Looking for Restaurants in map in York

By: Shubham garg

INTRODUCTION

BUISNESS PROBLEM AND BACKGROUND:

In a country like Canada, it is very hard to find café's and restaurant without the help of locals. This problem arises mostly with tourists as they are to the city and doesn't know where to have that cuisine that they want to have for dinner.

To help people out these sort of situation, an application is made to help these situation. The application was performed on a part of Canada York. Where many types of restaurants are there of different cuisines.

For this we get the data from different sources , cleaned it and combine with different other data to get the location and name of localities. For this we have used foursquare API, and Jupyter notebooks and ML tools.

DATA

To solve the problem we need the following data:

- Name of all the cities and their postal codes for easy mapping. This was done with help of Wikipedia which provide all the necessary details related to cities names and codes.

[https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada: M](https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M)

- Location of those restaurants means their latitudes and magnitudes. For this we have used Foursquare to get all the latitudes and magnitudes.

http://cocl.us/Geospatial_data

METHODOLOGY

- Get the data from Wikipedia.
- Clean the data and remove unwanted columns.
- Get the data from foursquare.
- Merge both the data.
- Expand the venue column to see different types of restaurant.
- Sort according to the popularity.
- Group the according to locality.
- Create a map out of it showing different localities.

RESULTS

Successfully created a map of York part of Canada showing different restaurants and localities. And now any one can choose and decide where to have and what sort of cuisine.

DISCUSSION

Before starting a business, some further data analysis of the optimal location of restaurants may be required.

CONCLUSIONS

Locations are shown on map exactly and it made very easy to look for different types of restaurants and cuisines.