

Capstone Project - Planning for a data science meetup in Toronto.

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1. Introduction

1.1 Business problem description

ABC is an event management company based in Toronto for organizing events. Its current assignment is to organize a two-day event for a group of Data science enthusiasts from all over the world. The company has to put a good program, including a hotel of residence, a hall for meetings, places of landscape to visit, stores for shopping, restaurants and cafes. Therefore, the company's purpose is to make a list of places of landscape in Toronto, including the nearest restaurants, cafes, and shopping stores for each place for the benefit of the participants.

1.2 Target Audience

Data science enthusiasts and Data Scientists from all over the world interested in attending the meetup.

2. Data Description

2.1 Data Selection

The data used in this project is provided by Foursquare location data. The data is grouped according to landscape area, and each area included the information about this area and all information about restaurants, cafes, and stores in Toronto area.

2.2 Data pre-processing & exploratory data analysis

- 01- Import Libraries
- 02- Define Foursquare Credentials
- 03- Define the city and get its latitude & longitude
- 04- Search for Hotels & clean dataframe
- 05- Search for Parks & clean dataframe
- 06- Search for Restaurants & clean dataframe
- 07- Search for Cafeteria & clean dataframe
- 08- Search for Shopping Stores & clean dataframe
- 09- Generate map to visualize hotels, shopping stores and Cafeteria and how they cluster together
- 10- Generate map to visualize Park, Restaurant and Cafeteria and how they cluster together

3. Results

Here we have generated the map to visualize hotels, shopping stores and Cafeteria and how they cluster together.



In this study we have analyzed, processed and evaluated the various options using data science and performed clustering for restaurants, parks, cafes, shopping places for the convenience of the participants.