

Peer-graded Assignment : Capstone Project - The Battle of Neighborhoods (week1)

Introduction

The Marina Bay Sands Hotel is located at Marina Bay in Singapore. The Marina Bay Sands Hotel is the most beautiful Hotel in Singapore. There are many tourists to stay here every years. So I think I should open Coffee shop near this hotel.



Figure.1: Marina Bay Sands Hotel in Singapore

Business Problem:

1. Find existing coffee shops around the Marina Bay Sands Hotel in radius 1.0 Km..
2. Find rating of exiting coffee shops for consideration to open my Coffee shop

Data sources : From [www. Foursquare.com](https://www.foursquare.com)

1. Find Marina Bay Sands Hotel from map in [www.Fourssqusre](https://www.foursquare.com) as below;
Address : 10 Bayfont Ave, 018986, Singapore
2. Run code will get location point of Marina Bay Sands Hotel as below;
Latitude : 1.283695
Lonitude : 103.8607722
3. Run code to find existing Coffee shops in radius 1.00 km from Marina Bay Sands Hotel.
We will get list of 30 coffee shops as below;

```
In [72]: dataframe_filtered.name
Out[72]: 0 The Coffee Bean & Tea Leaf Beanstro
1 Trung Nguyen Coffee
2 The Coffee Bean & Tea Leaf
3 Hill Street Coffee Shop
4 Coffee Club
5 Robert's Coffee (Robert Paulig)
6 The Coffee Bean & Tea Leaf
7 The Coffee Bean & Tea Leaf
8 Jewel Coffee (Raffles Place)
9 Coffee Club
10 Jewel Coffee
11 Huggs Coffee Bar
12 Mellow Coffee
13 Three Cups Coffee Co.
14 San Francisco Coffee
15 The Coffee Bean & Tea Leaf
16 SweetSpot Coffee Kiosk
17 The Coffee Academics
18 The Coffee Academics
19 The Coffee BEAN & Tea Leaf
20 Coffeesmith
21 o'Coffee Club
22 Dal.Komm Coffee
23 Coffee Club Express
24 Dimbulah Coffee
25 Local Coffee People
26 Starbucks Coffee
27 Sanity Coffee Bar
28 The Tiffany's Gourmet Coffee And Great Food
29 Five Oars Coffee Roasters
Name: name, dtype: object
```

4. Run code to show map of existing Coffee shops location around Marina bay Sands Hotel as shown below;

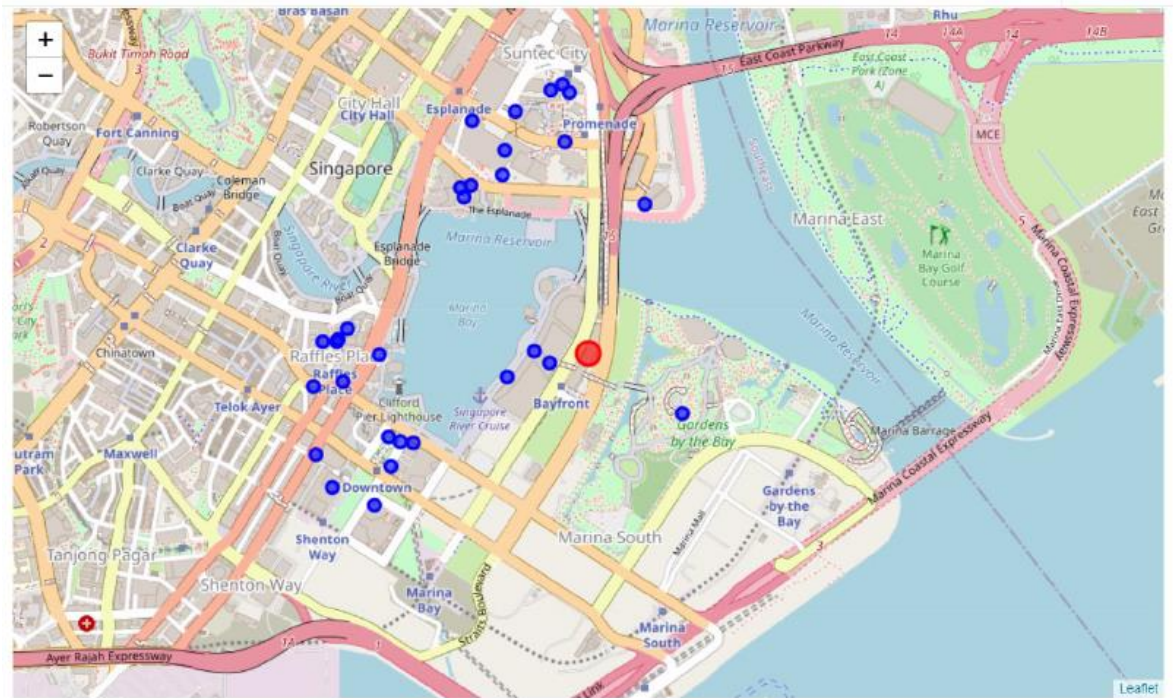


Figure 2: Location of 30 Coffee shops (blue points) around Marina Bay Sands Hotel (Red point)

=====End of Report for Week 1=====