

IBM DATA SCIENCE – CAPSTONE

Battle Of The Neighborhoods

Choosing The Best Vacation Destination Between Dubai, Paris, New York and Kuala Lumpur

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Introduction and Problem Description

In this Capstone Project, I will use my learnings and understandings from IBM's Professional Data Science Certificate to solve this never-ending problem of which place is it better to go for a vacation between these four famous cities. Many foreign tourists are trying to find a vacation spot which gives the whole package and is worth them taking their time out of their lives to come and enjoy. Tourists want to choose a place that has a variety of activities to do and a variety of places to go. In this project I will try to explore the two cities to see which city offers the best vacation destination in terms of hotels, restaurants, malls, museums, sight-seeing venues and fun outdoor activities.

This data will be able to solve this problem as we can see what the reviews, ratings and tips for places in the city are. How many 5 – Star hotels does the city have. How many different categories of places are available and how far are their distances from the places where the tourists plan to live. Furthermore, we can see what Tourists look for in ideal vacation venues and cross check them with cities to see whether those cities provide those places or not.

Data Section

1. Requirements

The data required in this is all types of categories for vocational purposes such as Hotels, Restaurants, Shopping Malls, Museums, Sight-Seeing Venues and Fun-Outdoor Activities. For that purpose, I will use the Foursquare API to 'Search' and 'Explore' all these Vacation venues to observe and do exploratory data analysis on the following cities.

2. Source

The data for this project will be collected using Foursquare API using the following link: <https://foursquare.com/developers>. In order to extract our data, I will use my Client ID and Client Secret to create a query which will fetch the data I need from the website.

```
1 CLIENT_ID = '*****' # your Foursquare ID
2 CLIENT_SECRET = '*****' # your Foursquare Secret
3 VERSION = '*****' # Foursquare API version
```

```
1 url = 'https://api.foursquare.com/v2/venues/explore?client_id={}&client_secret={}&v={}&ll={}&radius={}&limit={}'.format(
2     CLIENT_ID,
3     CLIENT_SECRET,
4     VERSION,
5     lat,
6     long,
7     RADIUS,
8     LIMIT)
```

Dubai

FOURSQUARE
CITY GUIDE

I'm looking for...



Current Map View



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Suggestions for **Best Nearby**

Filters: **Specials** Haven't Been Following Price Open Now Saved Liked

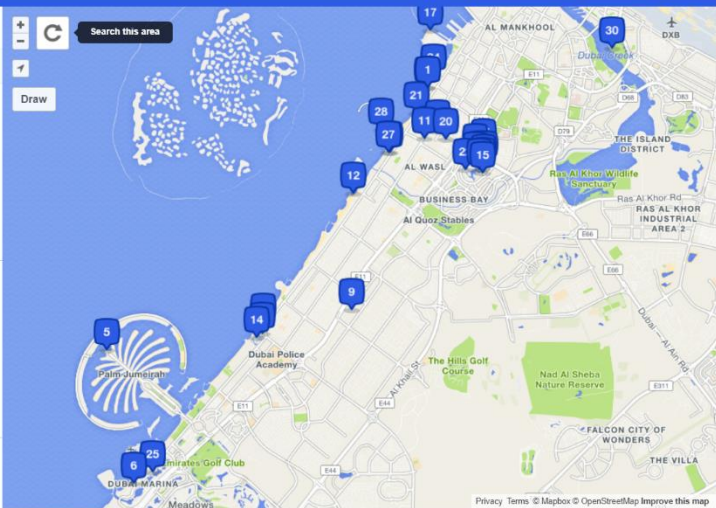
**1. La Mer**
(مركز تجاري)
Shopping Plaza
Jumeirah Beach Rd (at 39b St), Dubai
 Save
Meshari F. • April 12, 2019
As usual, great place to hang out with your mates, swim or try different restaurants and cafes

**2. Four Seasons Resort Dubai at Jumeirah Beach**
(فندق)
Resort • View Prices
Jumeirah Beach Rd, Dubai
 Save
Food B. • February 8, 2018
Spacious and luxurious, this location is absolutely breathtaking.

**3. Address Boulevard**
Hotel
Sheikh Mohammed Bin Rashid Boulevard Rd, Dubai

Search this area

Draw



Paris

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CITY GUIDE

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Current Map View



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Suggestions for **Best Nearby near Paris**

Filters: **Specials** Haven't Been Following Price Open Now Saved Liked

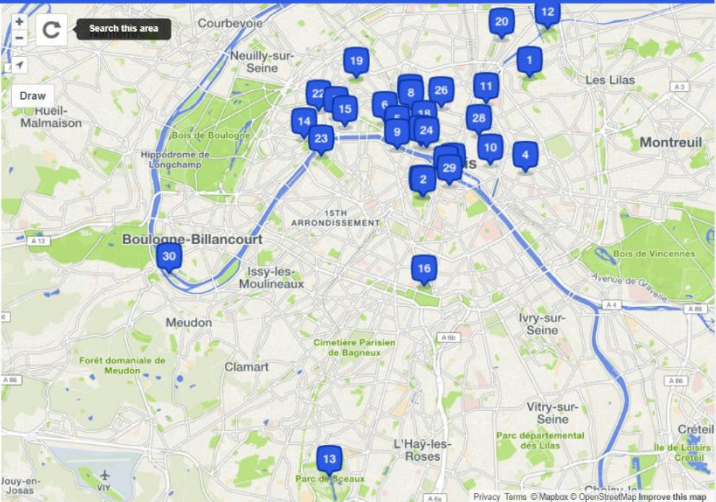
**1. Parc des Buttes-Chaumont**
Park
Rue Botzaris (Rue de Cr me), Paris
 Save
Andrew C. • May 6, 2015
Beautiful hilly park. Artificial lake, grotto, waterfalls. 1 of the bridges designed by Eiffel. Views of #Paris. Puppet theatre for kids. 3 restaurants. Great for runs/walks. 5 areas with free Wi-Fi

**2. Grand Bassin du Jardin du Luxembourg**
Fountain
Jardin du Luxembourg, Paris
 Save
Lucky • January 31, 2017
Gorgeous spot in even more gorgeous park! 10/10

**3. Luxembourg Garden**
(Jardin du Luxembourg)
Garden
Place Edmond Rostand, Paris

Search this area

Draw



Kuala Lumpur

FOURSQUARE City Guide

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Suggestions for **Best Nearby** near Kuala Lumpur

Filters: Specials Haven't Been Following Price Open Now Saved Liked

- 1. Kinokuniya** (9.2)
Bookstore • \$\$\$
Sunia KLCC (406-408 & 429-430), Kuala Lumpur
Natalie Y. • November 8, 2018
The sole Kinokuniya bookstore in town which houses a variety of books & titles. Sit by the window at night to get the best view of the Lake Symphony Water Fountain. Open from 10am to 10pm.
- 2. Sky Deck Infinity Pool** (9.1)
Pool
51/F THE FACE Suites, 1020 Jalan Sultan Ismail, Kuala Lumpur
Petr Š. • September 26, 2019
Awesome view with pool
- 3. Kiara Park Trail And Mountain Bike Track** (9.1)
Trail
Taman Rekreasi Lombah Kiara (Jalan Abang Haji Openg, Taman Tun Dr Ismail), Kuala Lumpur

New York

FOURSQUARE City Guide

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Suggestions for **Best Nearby** near New York

Filters: Specials Haven't Been Following Price Open Now Saved Liked

- 1. Central Park** (9.7)
Park
50th St to 110th St (5th Ave to Central Park West), New York
Angel F. • April 29, 2015
The garden is awesome I love the flowers in the spring time
- 2. Brooklyn Bridge Park** (9.5)
Park
Main St (Plymouth St), Brooklyn
Compass • April 24, 2014
The rapidly expanding riverfront park space boasts gorgeous sunset views, colorful playground equipment, and weekly movie screenings in a cozy outdoor amphitheater.
- 3. Gantry Plaza State Park** (9.6)
State / Provincial Park
474 48th Ave (at Center Blvd), Queens

3. Audience

The audience for this report will be the foreign tourists and travelers looking for their perfect vacation destination. It will not only benefit these travelers but will also give insight to the tourist industry as to what things make a place a better spot and more likely place for people to go for their holidays. **Tourism** industry is important for the benefits it brings and due to its role as a commercial activity that creates demand and growth for many more industries.