

Capstone Project - The Battle of Neighborhoods (Week 1)

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description of the data and how it will be used to solve the problem

In case, I will use Foursquare API to search for venues and make the call to the Foursquare database and in return, I use K-means clustering to do classification restaurant style and distance, the data form:

```
'https://api.foursquare.com/v2/venues/search?client_id={} & client_secret={} & ll={}, {} & v={} & query={} & radius={} & limit={} '.format(CLIENT_ID, CLIENT_SECRET, latitude, longitude, VERSION, **_query, radius, LIMIT)
```

Return result like this: (this is example)

```
Python 3
1 甜不辣 Tempura Japanese Food
2 齊東街日式宿舍市定古蹟 Japanese Colonial-era Housing for ...
3 祇園日本料理 Gi-On Japanese Cuisine
4 牡丹園 Peony Japanese Cuisine
5 Hip Japanese Restaurants
6 Tachibana Japanese Spa
7 aburi List - Japanese Casual Restaurant (居食創作料理)
8 Japanese Cuisine B2 @Sogo
9 Yi Wu Wei Japanese Restaurant
10 大味 Japanese Restaurant
11 Irodori (彩日本料理)
12 台北日本人學校 / 日僑學校 Taipei Japanese School
13 Marumo Japanese Bowl Cafe (瑪爾摩日式丼飯 微風台北車站店)
14 澄江日本料理 Sumie Nouvelle Cuisine Japanese
15 Japanese Bar 7th
16 Cho Ji Japanese BBQ
17 一平日本料理 Ippei Japanese Food
18 Japanese Ramen
19 Kaguraya Japanese Restaurant
Name: name, dtype: object
0 Mitsui Japanese Cuisine (三井日式料理)
1 甜不辣 Tempura Japanese Food
2 齊東街日式宿舍市定古蹟 Japanese Colonial-era Housing for ...
3 祇園日本料理 Gi-On Japanese Cuisine
4 牡丹園 Peony Japanese Cuisine
5 Hip Japanese Restaurants
6 Tachibana Japanese Spa

Python 3
[142]:
name categories address cc city country crossStreet distance formattedAddress
0 Mitsui Japanese Restaurant 農安街30號 TW 台北市 臺灣 NaN 4821 [農安街30號, 台北市, 104, 臺灣] [1a 25.0
1 甜不辣 Japanese 忠孝東路4 TW NaN 臺灣 NaN 486 [忠孝東路4段553巷 2弄11號, 臺灣] [1a 25.0
Food Restaurant 段553巷2弄 11號
2 齊東街日式宿舍市定古蹟 Japanese Historic Lane 53, Jhongjheng TW Jhongjheng 臺灣 NaN 3540 [Lane 53, Qidong St. Jhongjheng District, Jhon... [1a 25.0
Japanese Colonial-era Housing for ... Site Qidong St. Jhongjheng District
3 祇園日本料理 Gi-On Japanese 南京東路三 TW 中山區 臺灣 NaN 2825 [南京東路三段133 號B2, 中山區, 臺北 市 104, 臺灣] [1a 25.0
Cuisine Restaurant 段133號B2
```

And I must analysis distance for venues, sightseers will understand how many restaurant style, address, telephone number and distance, the school side will can make restaurant guide information for sightseers.