

Restaurant Guide for Dubai, UAE

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Introduction

Dubai is one of the best tourist destinations around the world, best known for its shopping spots as well as for its magnificent attractions.

This project aims to provide with details regarding to what cuisines are available and their locations.

A further analysis can be done to give the number of restaurants per area or cuisine or grouping based on both.

It also provides with an analysis of the surrounding available ventures for each or any preferred restaurant.

Data

For this project the data needed is:

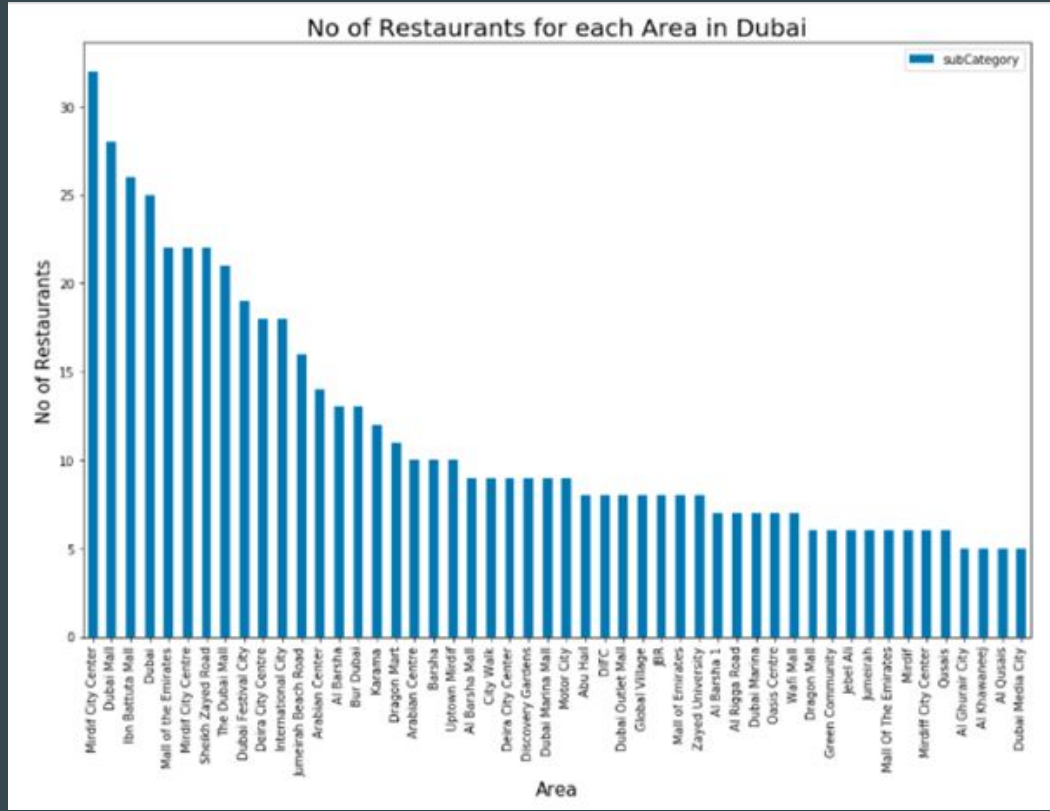
1. Dubai dataset containing list of restaurants and other venues along with its name, address, latitude, longitude taken from Kaggle.
<http://tour-pedia.org/download/dubai-restaurant.csv>
2. Geopy to get latitudes and longitudes of each venue.
3. Foursquare API to get all venues in each area.

the attributes of this dataframe are:

1. address – address of venue
2. category – subdivision of venue based on activity
3. id – venue id
4. lat – latitude of venue
5. lng – longitude of venue
6. location – location of venue (Dubai since it is our city of concern)
7. name – name of venue
8. originalId – string id of venue
9. subCategory – subdivision of category (restaurant divided into café, hotel, ice cream shop, etc)
10. details – further details of venue (accessed through a link with no specific information)
11. reviews – review given by other customers for that venue (accessed through a link with no specific ratings)

Cluster of Venues using K-Means

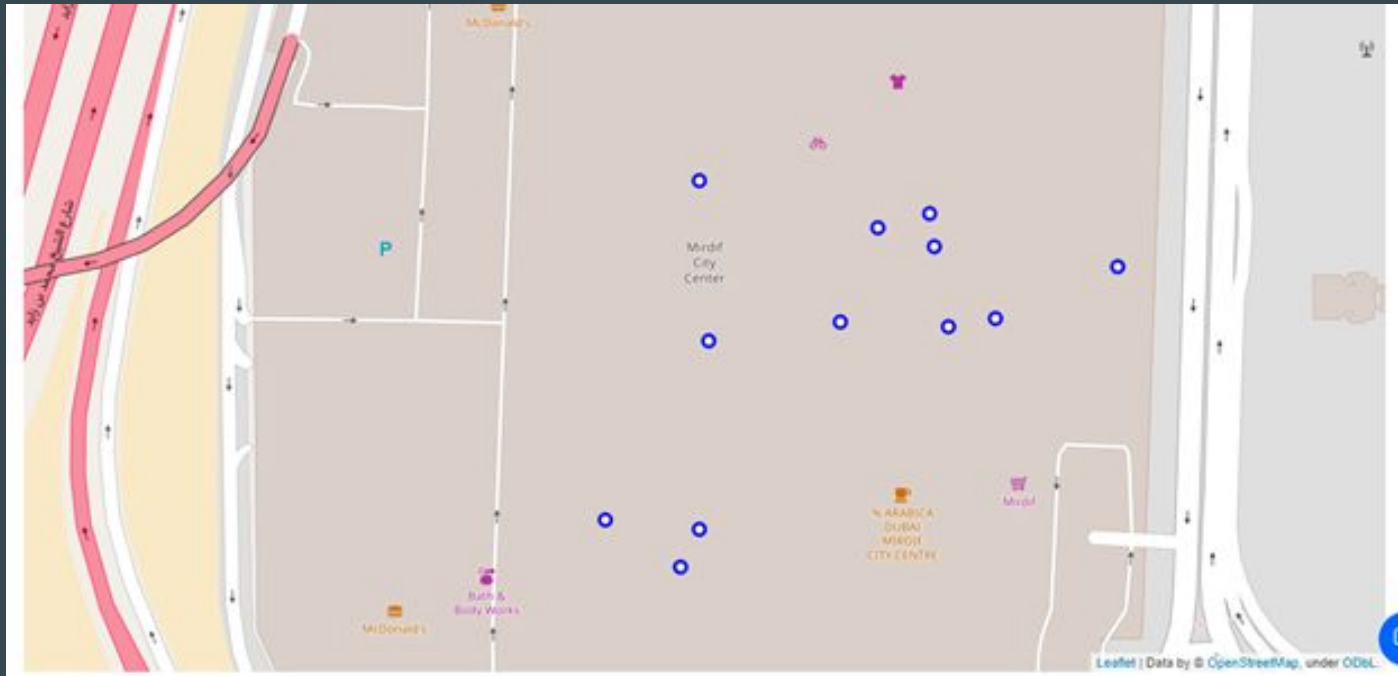


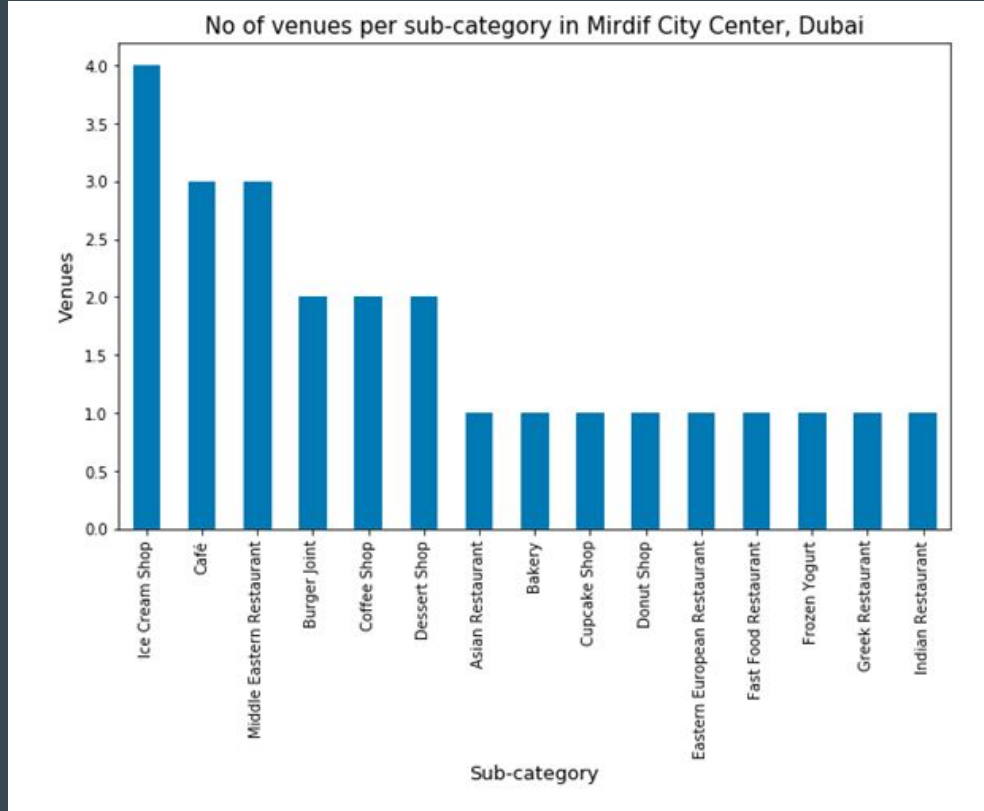


Mirdif City Centre has the highest number of restaurants

The numbers seem to be reduce as we move towards outskirts of Dubai

Cluster Map of Mirdif City Centre





The most common restaurants seem to be ice cream shops followed by Cafes, Middle Eastern cuisine and so on

Venue and its Frequency using One-Hot Encoding

Abdelwahab عبدالوهاب

	venue	freq
0	Coffee Shop	0.13
1	Movie Theater	0.10
2	Theme Park Ride / Attraction	0.03
3	Chinese Restaurant	0.03
4	Lebanese Restaurant	0.03

Arabesq - أرابيسك

	venue	freq
0	Coffee Shop	0.10
1	Movie Theater	0.07
2	Clothing Store	0.07
3	Chinese Restaurant	0.03
4	Restaurant	0.03

Caffe' NERO كافيه نيرو

	venue	freq
0	Coffee Shop	0.13
1	Movie Theater	0.10
2	Theme Park Ride / Attraction	0.03
3	Chinese Restaurant	0.03
4	Lebanese Restaurant	0.03

Conclusion

From this we can see that:

1. Mirdif City Center has the greatest number of restaurants.
2. Ice cream shops have potential in Mirdif City Center area.
3. The area of Abdelwahab is quite popular and has a high frequency of surrounding venues.
4. Japanese cuisine is not as available and has low frequency of surrounding venues.