The Battle of Neighborhoods
Dubai

1.Introduction

Dubai is one of the seven emirates that in the United Arab Emirates. Dubai is the emirate of the United Arab Emirates with the highest population and the second largest area (4.114 km²) after Abu Dhabi. Today, Dubai is a commercial and cultural hub as a globally developing city in the Middle East and Persian Gulf region. Although the economy of Dubai has historically been founded on the oil industry, the Emirate has created important revenue items in the fields of tourism, airlines, real estate transactions and financial services, which it conducts with western-

style business methods. Dubai has recently attracted the attention of the world with its large-scale construction projects and sporting events. As a result, thousands of tourists and expats go to Dubai every year.

The project's aim is to help the new expats and tourists who have difficulties to find suitable places. So, using the foursquare API, you can view the restaurant, park, beach, etc. I made various analyzes to find the best place for them. The analysis of the two most visited and settled neighborhoods is also included in this project. This can help Dubai's new guests to get an overview of the places.

2. Data Description

For this project, the Foursquare API is used. A list of neighborhoods in Dubai is downloaded and their respective location in longitude and latitude coordinates is obtained from https://en.wikipedia.org/wiki/List_of_communities_in_Dubai. The data is can be seen below.

	Community Number	Community (English)	Community (Arabic)	Area(km2)	Population(2000)	Population density(/km2)
0	126.0	Abu Hail	أبو هيل	1.27 km²	21414	16,861.4/km²
1	711.0	Al Awir 1	العوير الأولى	NaN	NaN	NaN
2	721.0	Al Awir 2	العوير الثانية	NaN	NaN	NaN
3	283.0	Al Ayas	العياص	162.4 km2	1706	162.4/km2
4	333.0	Al Bada'a	البدع	0.82 km²	18816	22946/km²

I only used Community (English) column and changed the column name to Community; others are dropped. Moreover, communities' latitude and longitude values are added. I used 'geopy' library in order to find the latitude and longitude values of each community.

	Community	Latitude	Longitude
0	Abu Hail, Dubai	25.285942	55.329444
1	Al Awir 1, Dubai	25.169420	55.541634
2	Al Awir 2, Dubai	25.169420	55.541634
3	Al Ayas, Dubai	25.229395	55.275679
4	Al Bada'a, Dubai	25.224107	55.268344