

# IBM Data Science Capstone Project

Battle of Neighborhoods (Week 1)  
Dubai business nature



## 1. Description of the Problem and Discussion of the Background (Introduction Section):

One Foreign Investor is looking for opening a new investment project in Dubai as it is one of the most growing business cities in the area of the middle east,

But the problem is that our stockholders has a concept in his mind, but as being foreigner, he has not much idea about Dubai City structure and therefore needs help to determine what is the type of common businesses in Dubai the can do and what is the most rich and famous neighborhoods in Dubai with high population

### **Conclusion we have three main criteria's:**

- 1- Which is common business fields in Dubai
- 2- What is the most rich and popular neighborhood
- 3- What are the target areas to implement the project?

### **Necessary Data and its usage in this case:**

#### Part 1:

- List of all neighborhoods in Dubai.
- Total area of each neighborhood.
- Population of each neighborhood.
- Longitude and latitude of each neighborhood.

I have collected all of those data from Wikipedia and Dubai statistics center (DSC) web site and import it in csv file.

## Part 2:

- List of venues in Dubai.
- Location of all venues (neighborhood).
- Type or the category of the business.
- Total number of each business category
- Total number of venues in each category.

As mentioned in IBM capstone course all of those data are available on foursquare API.

## Reference's:

<https://www.dsc.gov.ae/en-us>

<https://developer.foursquare.com/docs/api-reference/venues/explore/>

[https://en.wikipedia.org/wiki/List\\_of\\_communities\\_in\\_Dubai](https://en.wikipedia.org/wiki/List_of_communities_in_Dubai)