

Capstone-Project -The Battle of Neighborhoods in Dubai

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2. Data

2.1 Data Sources

To proceed with this project, following data is required:

- a. List of communities in Dubai along with its median housing rental value per annum from property finder:

<https://www.propertymonitor.ae/research/uae-communities-index/dubai-rental-index.html>

- b. Latitude and Longitude of each community using Geocoder class from Geopy of Python.

- c. Various type of venue names in each community from Foursquare API.

2.2 Data Wrangling

The downloaded data contains the community area, the type of residences, median housing rent per annum and the percentage of rental increase.

After downloading the data and converting it to panda dataframe, we removed the column with percentage of rental increase from the dataframe as we do not require this data in current scope.

2.3 Approach

- List of apartments for rent was consolidated from web-scraping real estate sites for Dubai.
- The geolocation(lat,long) data was retrieved using Nominatim from geocoder class.
- Folium map was the basis of mapping with various features to consolidate all data in ONE map where one can visualize the areas with low cost apartments.
- Using FourSquare API, identified the major venues for each community area.