Dubai Metro Station Clustering

Plot metro station on Dubai Map

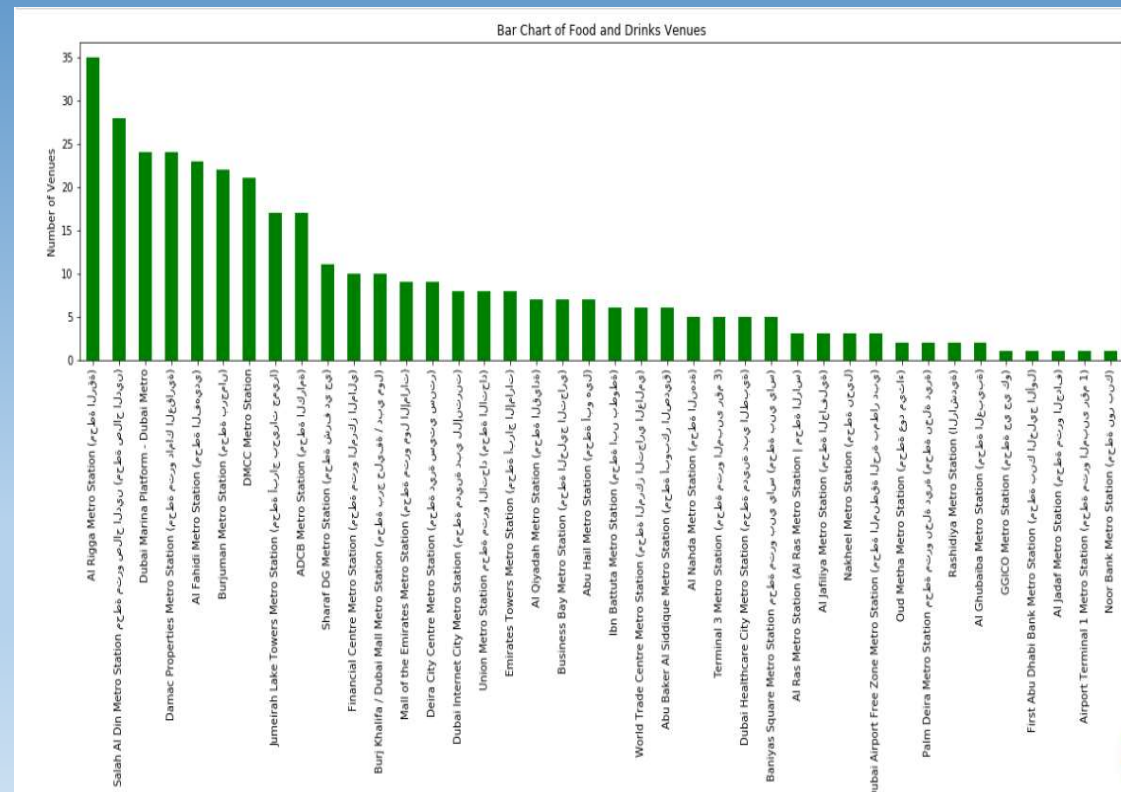- Using Foursquare API, plot metro station on Dubai Map

Cluster Dubai Metro Station

- Cluster Dubai Metro station based on 6 categories
  - Food and Drinks
  - Schools
  - Medical Center
  - Fitness Center
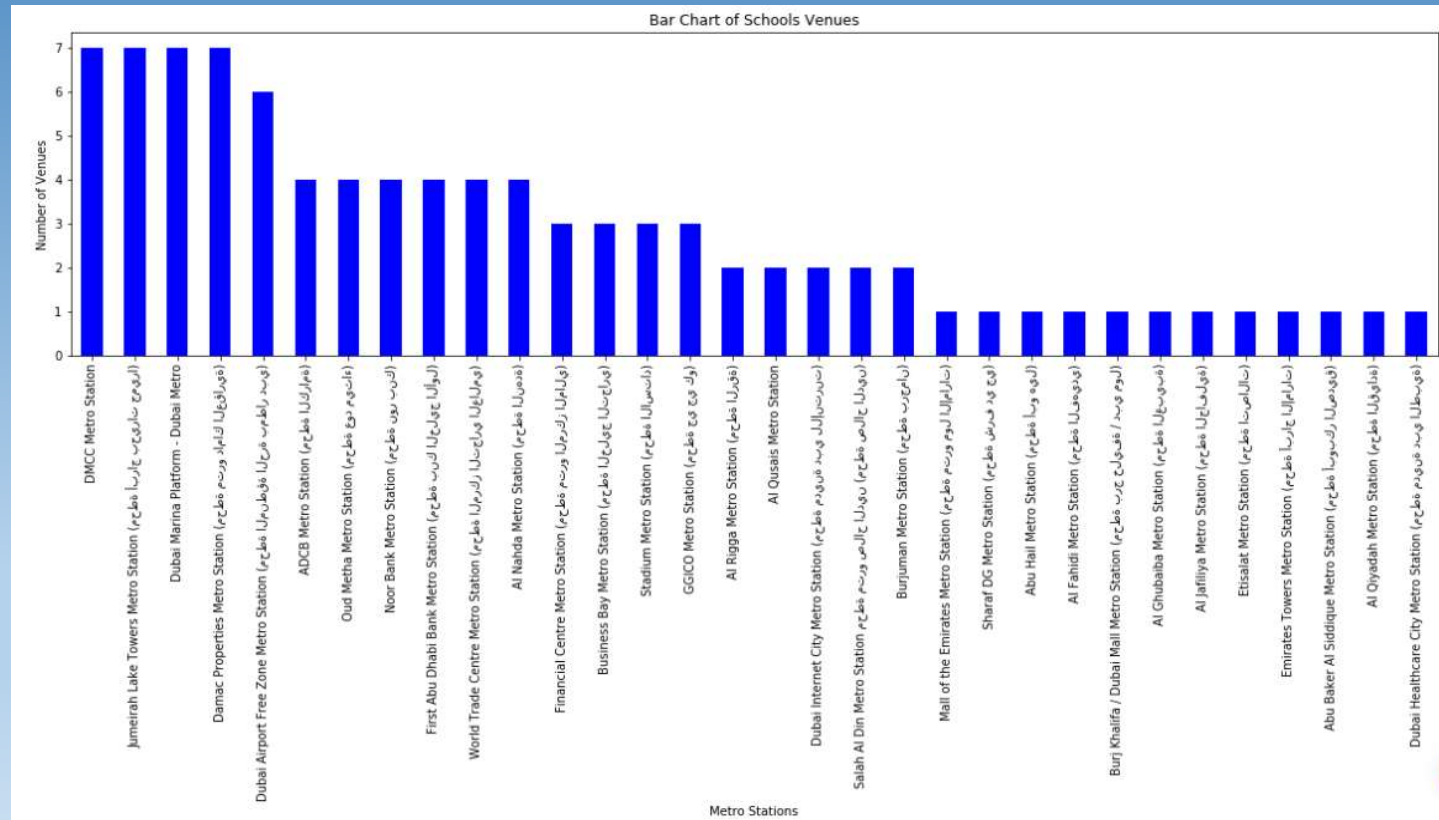 - Restaurant
  - Shopping Mall

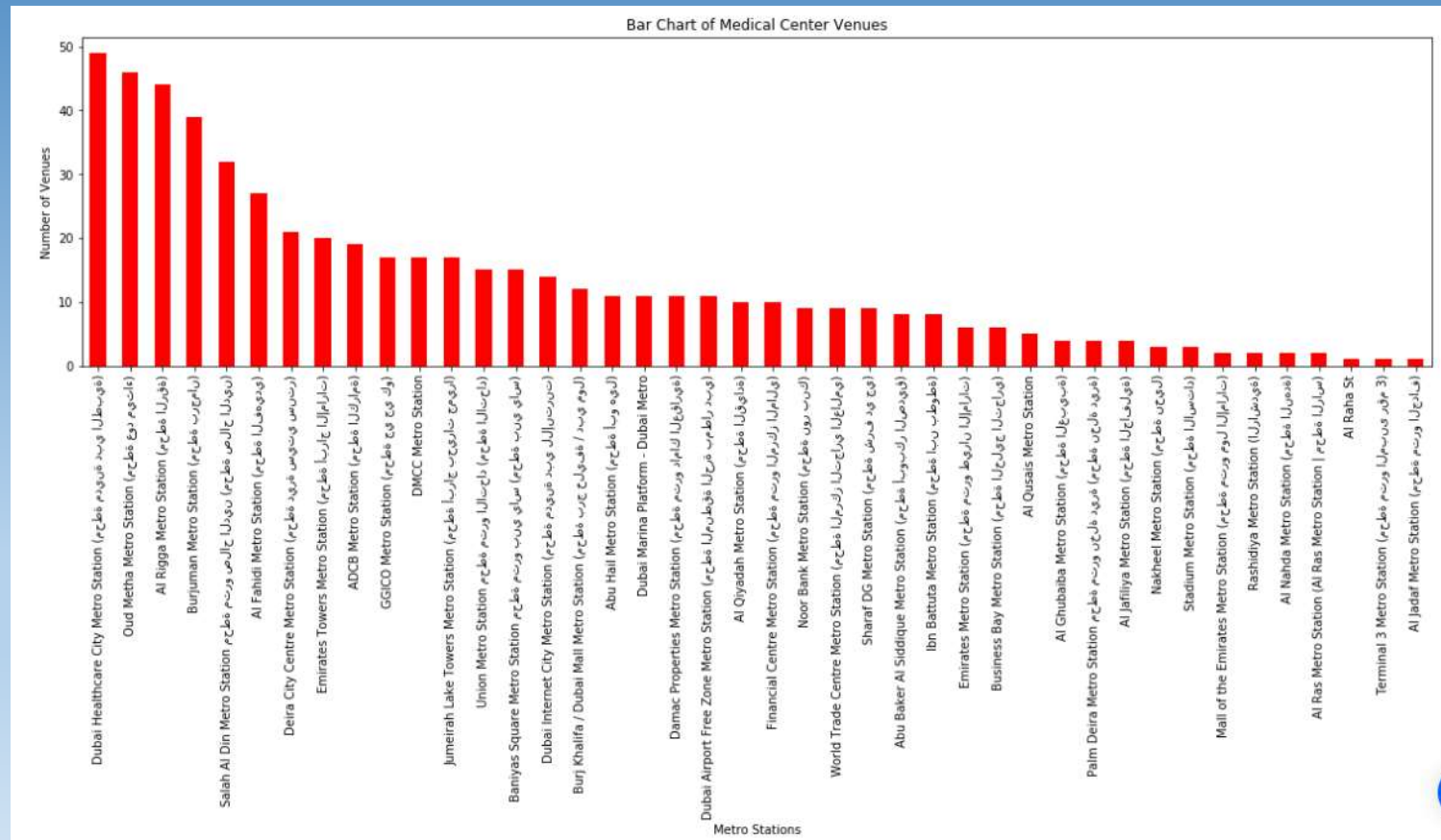# Prepare Bar Chart for each category

Food and Drinks
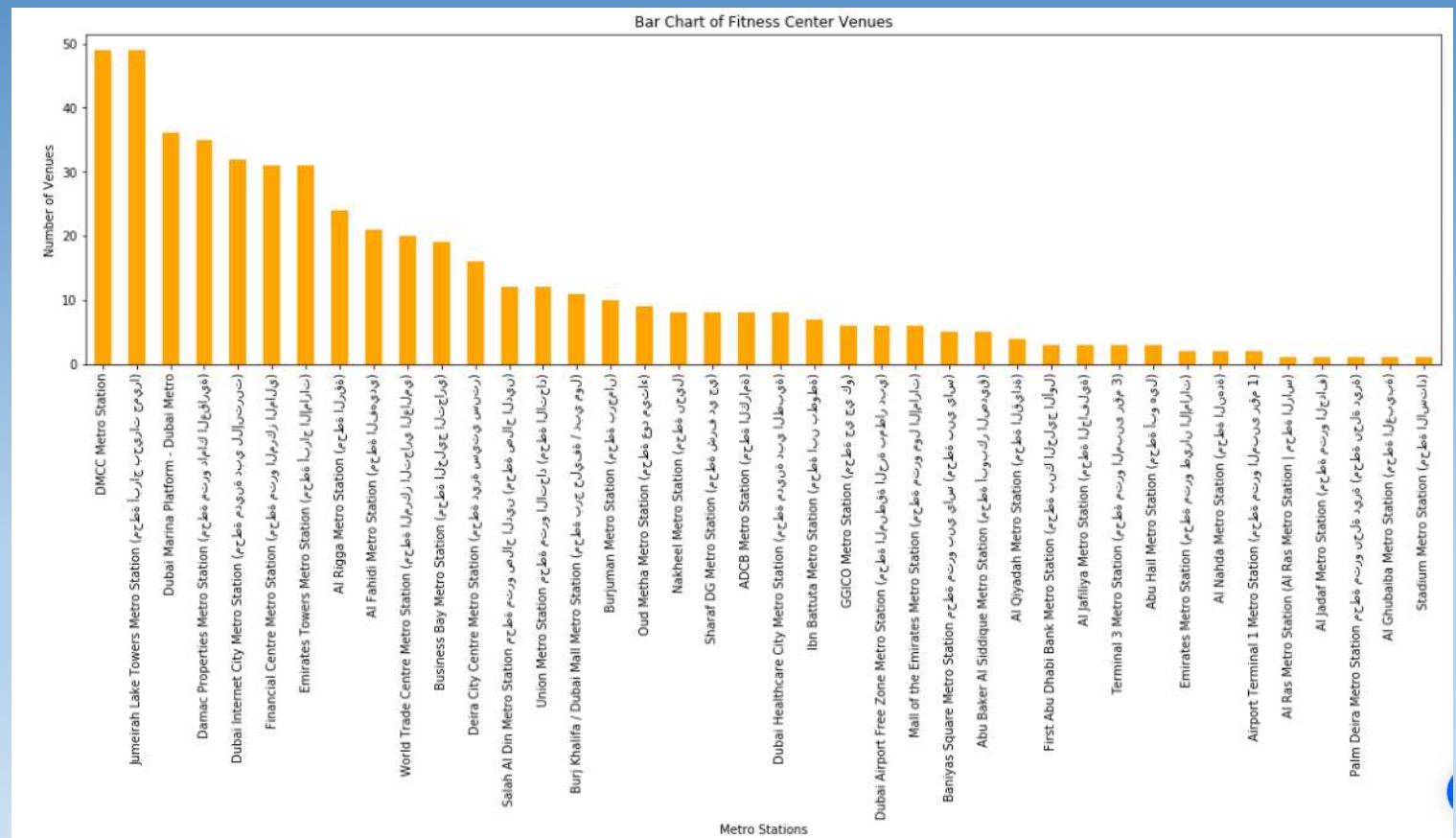
Prepare Bar Chart for each category

Schools

Prepare Bar Chart for each category
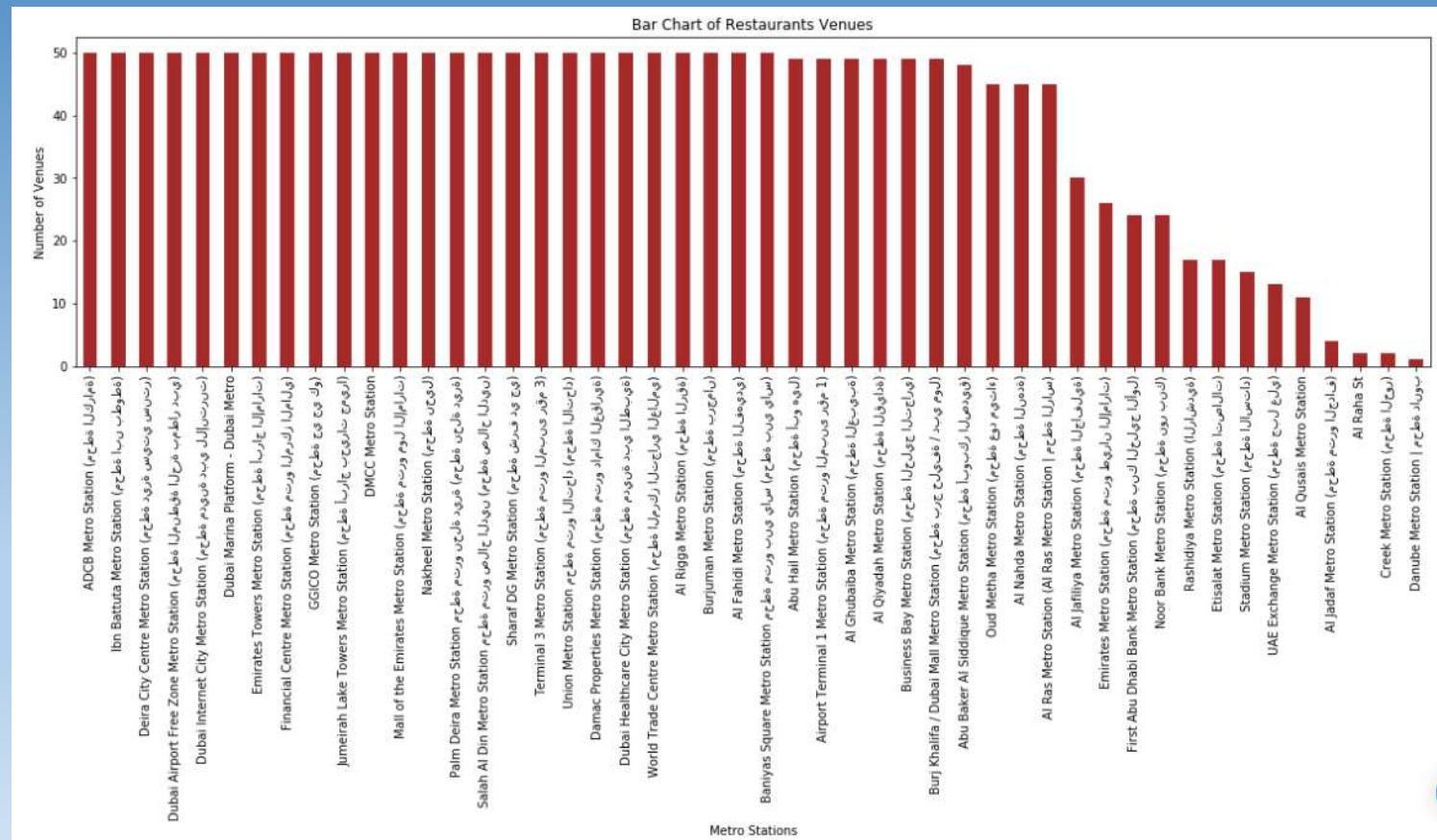
Medical Center

Prepare Bar Chart for each category
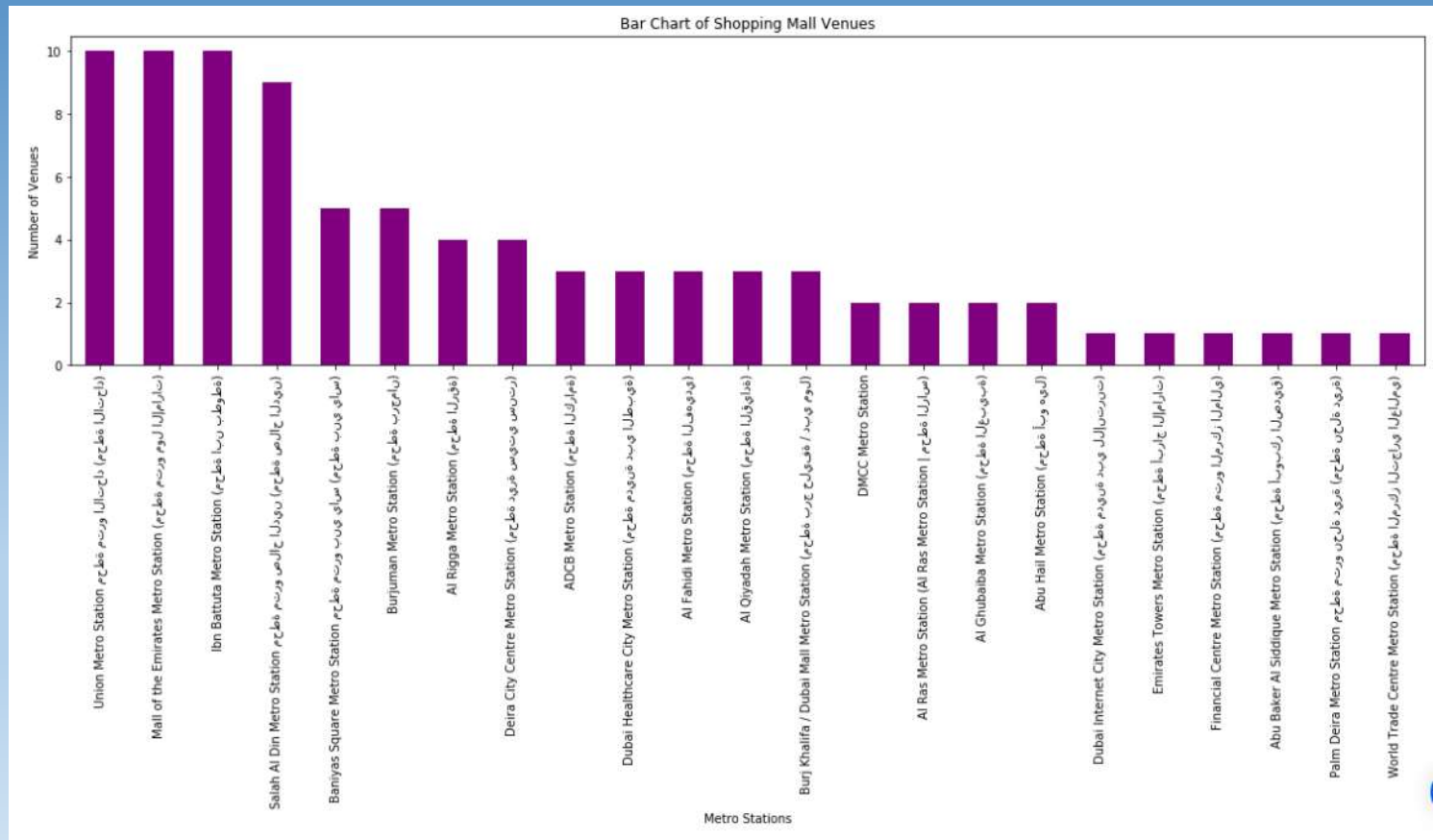
Fitness Center

Prepare Bar Chart for each category

Restaurants

Prepare Bar Chart for each category

Shopping Mall

Execute K-means algorithm

Categorize metro station using K-means algorithm with 3 cluster, Red/Blue/Green

Cluster Labels	Latitude	Longitude	Food and Drinks	Schools	Medical Center	Fitness Center	Restaurants	Shopping Mall
blue	25.186181	55.251099	16.857143	3.285714	25.571429	25.928571	49.642857	2.357143
green	25.125402	55.232949	0.615385	1.153846	2.384615	0.769231	14.307692	0.000000
red	25.224215	55.291678	5.904762	1.476190	8.000000	6.571429	49.142857	2.523810

Plot categorized metro station on Dubai map