**Introduction and Business Problem**

**Introduction:**

* The city of Jeddah, KSA is and it is packed with restaurants, night life and amazing people. For people that are new to Jeddah,it will not be easy to figure out what restaurants are worth going to and where they are. For people that used to live in Jeddah or are visiting Jeddah, how do you know what the best places are to get something to eat?

**Business Problem:**

* For this project, I am going to put on my entrepreneur hat and create a simple guide on where to eat based on Foursquare likes, restaurant category and geographic location data for restaurants in Jeddah. I will then cluster these restaurants based on their similarities so that a user can easily determine what type of restaurants are best to eat at based on Foursquare user feedback.

**Data Required**

For this assignment, I will be utilizing the Foursquare API to pull the following location data on restaurants in Hoboken, NJ:

* Venue Name
* Venue ID
* Venue Location
* Venue Category
* Count of Likes

**Data Acquisition Approach**

To acquire the data mentioned above, I will need to do the following:

* Get geolocator lat and long coordinates for Jeddah, KSA
* Use Foursquare API to get a list of all venues in Jeddah
  + Get venue name, venue ID, location, category, and likes

**Algorithm Used**

I will take the gathered data (see above in Data Acquisition Approach and Data Required sections) and will create a k-means clustering algorithm that groups restaurants into 4-5 clusters so that people looking to eat in Jeddah can easily see which restaurants are the best to eat at, what cuisine is available and where in Jeddah they can look to eat.

* For all other clarification kindly review my project on gethub.com
* <https://github.com/mostafa-fadl/Coursera_Capstone/blob/master/Coursera%20capstone%20-%20final%20project.ipynb>