**Introduction and business Problem**

* **Introduction**

The city of Hoboken, NJ is relatively small at ~1square mile but it is packed with restaurants, nightlife and amazing people. For people that are new to Hoboken, despite its new geographical size its very daunting to figure out what restaurant are worth going to and where they are. For people vising to Hoboken and are visiting Hoboken, how do you know what the best place are to get something to eat.

* **Business Problem**

For this project I have created a guide where to eat based on four square likes, restaurant category and geographic location of a restaurant in Hoboken. I will then cluster these restaurants based on similarity so that a user can easily determine what type of restaurant is best to eat based on Foursquare user feedback.

**Data Required**

In this Project, 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 or likes

**Data Acquisition Approach**

For getting this data mentioned above I will need to do the following

* Get geolocation longitude and latitude coordinates of Hoboken, NJ
* Use four square API to get: Venue Name, Venue ID, Venue Location, Venue Category, Likes.

**Algorithm Used**

I will take the gathered data and will create a K-Means clustering algorithm that group restaurants into 4-5 clusters so that people looking to eat in Hoboken can easily see which restaurants are the best to eat at, what cuisine is available and where in Hoboken they can look to eat.