**Introduction and Description**

**Introduction:**

* The city of Charlotte, NC is medium sized city with an amazing uptown and the city is packed with restaurants, night life and amazing people. Charlotte is the Financial capital of NC and is the largest city in NC. For people that used to live in Charlotte or people visiting Charlotte, how do you know what the best places are to get something to eat?

**Business Problem:**

* In this project I would create a simple guide on where to eat based on Foursquare ratings, price, category and geographic location data for restaurants in Charlotte. I will then cluster these restaurants based on their similarities so that a user can easily determine what type cuisine they are looking for and in what price range.

**Required Data**

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

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

**Approach**

I would be using the below to get the data:

* Get geolocator lat and long coordinates for Charlotte, NC
* Get a list of all venues in Charlotte
* Get venue IDs for each venue in Charlotte
* Pull venue name, location, category, rating, price, count of likes and phrases for each venue

**Clustering**

I will take the gathered data and use the data to create a k-means clustering algorithm that groups restaurants into 3 clusters.