**Capstone Project Final Report**

**Finding the Best Neighborhood for You in Brooklyn**

**Introduction:**

The purpose of this project is to assist people in selecting the best neighborhood inside of the Brooklyn to move into. The criteria analyzed for this decision is each neighborhoods level of volume regarding its access to Arts & Entertainment, College & University, Event, Food, Nightlife Spot, Outdoors & Recreation, Professional & Other Places, Residence, Shop & Service, and Travel & Transport. This can be found using the Foursquare API.

With how many people not only move to New York city every year but migrate between the 5 boroughs this information could be incredibly useful for this large and ever-increasing group.

These 10 criteria are often seen as critical features when individuals are deciding where to move to as a new residence, or entrepreneurs looking to build a new business in areas that are booming or needing development. By looking at the current volume of these within different clusters of neighborhoods it will provide potential migrants with awareness of the area and neighborhood before moving to a new city, state, country, or place for their work or to start a new fresh life.

**Data Section:**

Will use the New York dataset provided in week 3 of the course. Providing boroughs, neighborhoods, latitudes, and longitudes.

**Foursquare API Data:**

We will need data about different venues in different neighborhoods of that specific borough. To gain access to that information, we will use "Foursquare" locational information. Foursquare is a location data provider with information about all manner of venues and events within an area of interest. Such information includes venue names, locations, menus and even photos. As such, the foursquare location platform will be used as the sole data source since all the stated required information can be obtained through the API.

After finding the list of neighborhoods, we then connect to the Foursquare API to gather information about the top 10 venues inside each neighborhood. For each neighborhood, we have chosen the radius to be 500 meters.