**The Battle of Neighborhoods**

As my Capstone project I have chosen this topic as working in the data field I know that sometimes its tedious to not able to get the data in a proper format so that we can analyse it. Hence as an application of what I have learned I have written this code.

I chose the Indian states by its GDP page. The page classifies The Battle of Neighborhoods e will need data about different venues in different neighborhoods of that specific borough. In order to gain 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 venues inside each and every neighbourhood. For each neighbourhood, we have chosen the radius to be 100 meter.

The data retrieved from Foursquare contained information of venues within a specified distance of the longitude and latitude of the postcodes. During the code I faced many problems where I was unable to create a proper array as well as list, but constant trial and error approach helped me to reach my final goal. I also faced some ASCI characters issue so I had to install some directories. Researching more about this topic I found out that this can be done easily using Selenium. So maybe going further in this domain I will try to explore more possibilities through Selenium.

