Restaurant recommender system in Delhi

DATA REQUIREMENTS :

1. To access location of a restaurant, its Latitude and Longitude is to be known so that we can point at its coordinates and create a map displaying all the restaurants with its labels respectively.(referring lab)
2. Population of a neighbourhood is very important factor in determining a restaurant's growth and amount of customers who turn up to eat. Logically, the more the population of a neighbourhood, the more people will be interested to walk openly into a restaurant and less the population, less number of people frequently visit a restaurant. Also if more people visit, better the restaurant is rated because it is accessed by different people with different taste. Hence it is very important factor.
3. Income of a neighbourhood is also very important factor as population was. Income is directly proportional to richness of a neighbourhood. If people in a neighbourhood earns more than an average income, then it is very much possible that they will spend more however not always true with very less probability. So a restaurant assessment is proportional to income of a neighbourhood.

DATA DESCRIPTION :

For this problem, we will get the services of Foursquare API to explore the data of Delhi, in terms of their neighbourhoods. The data also include the information about the places around each neighbourhood like restaurants, hotels, coffee shops, population of neighbourhoods and income by neighbourhoods. We selected one Borough from each city to analyze their neighbourhoods. We will use machine learning technique, “Clustering” to segment the neighbourhoods with similar objects on the basis of each neighbourhood data.
Use of foursquare is focused to fetch nearest venue locations so that we can use them to form a cluster. Foursquare api leverages the power of finding nearest venues in a radius(in my case : 500mts) and also corresponding coordinates,venue location and names. After calling