

The Battle of Neighborhoods –Coimbatore

Applied Data Science Capstone by IBM on Coursera

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2. DATA REQUIREMENTS

Neighbourhood data

Coimbatore has multiple neighbourhoods. **Wikipedia** has a dataset which has the list of Neighbourhoods in Coimbatore. There are a total of 36 neighbourhoods. The data are obtained from the Wikipedia page through **Data Scraping**

- https://en.wikipedia.org/wiki/Category:Neighbourhoods_in_Coimbatore

Geographical Coordinates

Later, the geographical coordinates of various neighbourhoods were extracted using GeoPy library in Python. Geographical coordinates are necessary for plotting maps during the project for visualizing our data. After using GeoPy we added two columns to our dataframe with latitude and longitude information of each neighbourhood as shown below:

	Neighbourhood	Latitude	Longitude
0	Chinniampalayam	11.03235	77.07564
1	Ganapathy, Coimbatore	11.08566	76.92786
2	Gandhipuram, Coimbatore	11.01926	76.96792
3	Goundampalayam	11.04528	76.94729
4	Kalapatti	11.07809	77.03755

Venue Data from FourSquare

We extracted venue data using FourSquare API. This venue data was used to study the venues in various neighbourhoods in Coimbatore. This data provided important details of various restaurants in the area and helped us understand the competition. This data was very important because it helped us draw the main conclusion of the project.