## 1.1 New York City Neighbourhood Data

Neighbourhood has a total of 5 boroughs and 306 neighbourhoods. In order to segment the neighbourhoods and explore them, we will essentially need a dataset that contains the 5 boroughs and the neighbourhoods that exist in each borough as well as the latitude and longitude coordinates of each neighbourhood. This dataset is from New York University, available in this <u>link</u>.

	Borough	Neighborhood	hborhood Latitude	
0	Manhattan	Marble Hill	40.876551	-73.910660
1	Manhattan	Chinatown	40.715618	-73.994279
2	Manhattan	Washington Heights	40.851903	-73.936900
3	Manhattan	Inwood	40.867684	-73.921210
4	Manhattan	Hamilton Heights	40.823604	-73.949688

Figure 1: NYC Neighbourhood with Latitude and Longitude data frame

## 1.2 Indian Restaurants in Manhattan Data

New York City's geographical coordinates data will be utilized as input for the Foursquare API, and get venues information for each neighbourhood. We will use the Foursquare API to explore neighbourhoods. Indian Restaurant category ID 4bf58dd8d48988d1d2941735 is used for retrieving data from Foursquare API, venue categories available in this <u>link</u>.

Venue Category	Venue Longitude	Venue Latitude	Venue	Neighborhood Longitude	Neighborhood Latitude	Neighborhood	
Indian Restaurant	-73.908800	40.880886	Riverdale Indian Cuisine	-73.910660	40.876551	Marble Hill	0
Indian Restaurant	-73.903045	40.878058	Tazmohol Indian Restaurant	-73.910660	40.876551	Marble Hill	1
Indian Restaurant	-73.909816	40.886459	Cumin Indian Cuisine	-73.910660	40.876551	Marble Hill	2
Indian Restaurant	-73.995819	40.720094	Kabab Bites	-73.994279	40.715618	Chinatown	3
Indian Restaurant	-73.990350	40.719830	indi thai	-73.994279	40.715618	China <b>to</b> wn	4

Figure 2: Indian restaurants in Manhattan data frame