

# BATTLE OF NEIGHBOURHOODS

## INTRODUCTION

New York City (NYC), is the most populous city in the United States. With an estimated 2018 population of 8,398,748 distributed over about 302.6 square miles (784 km<sup>2</sup>), New York is also the most densely populated major city in the United States. Located at the southern tip of the U.S. state of New York, the city is the centre of the New York metropolitan area, the largest metropolitan area in the world by urban landmass. With almost 20 million people in its metropolitan statistical area and approximately 23 million in its combined statistical area, it is one of the world's most populous megacities. New York City has been described as the cultural, financial, and media capital of the world, significantly influencing commerce, entertainment, research, technology, education, politics, tourism, art, fashion, and sports. Home to the headquarters of the United Nations, New York is an important centre for international diplomacy.

Throughout its history, New York City has been a major point of entry for immigrants; the term "melting pot" was coined to describe densely populated immigrant neighborhoods on the Lower East Side. As many as 800 languages are spoken in New York, making it the most linguistically diverse city in the world. English remains the most widely spoken language, although there are areas in the outer boroughs in which up to 25% of people speak English as an alternate language, and/or have limited or no English language fluency. English is least spoken in neighborhoods such as Flushing, Sunset Park, and Corona.

With its diverse culture, comes diverse food items. There are many restaurants in New York City, each belonging to different categories like Chinese, Indian, and French etc. So as part of this project, we will list and visualize all major parts of New York City that has great Indian restaurants.

## PROBLEM STATEMENT

NYC being diverse and many different cuisines being eaten across the city to find the best place to eat particular cuisine is difficult. To address this problem we will develop a model to find out the restaurants which offers best Indian cuisine.

People always migrate to New York City for opportunities. As many as 711,174 Indians are growing in NYC there always be demand for Indian cuisine. To fulfill the demand of ever growing Indian cuisine, new restaurants need to be setup. We will address this issue by finding the potential market for Indian restaurants. We will also search for areas that lack Indian restaurants.

Expats or tourist who visit New York City for short duration also need place for stay. We will look to solve this problem by searching for best places to stay if they prefer Indian cuisine.

## DATA

New York City data that contains list Boroughs, Neighborhoods along with their latitude and longitude.

- Data source: [https://cocl.us/new\\_york\\_dataset](https://cocl.us/new_york_dataset)

Description: This data set contains the required information. And we will use this data set to explore various neighborhoods of New York City.

Indian restaurants in each neighborhood of New York City.

- Data source: Foursquare API

Description: By using this API we will get all the venues in each neighborhood. We can filter these venues to get only Indian restaurants.

GeoSpace data

- Data source: <https://data.cityofnewyork.us/City-Government/Borough-Boundaries/tqmj-j8zm>

Description: By using this geo space data we will get the New York Borough boundaries that will help us visualize choropleth map.