

IBM Data Science Capstone Project

Restaurant Recommendation in Mumbai, India

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Introduction:

If you are looking for a culinary escapade, Mumbai is, by all means the gastronomic hub of India. The restaurant industry offers a wide variety of cuisines like 'Indian', 'Mexican', 'Italian' and many more. There's something for everyone. The restaurants in Mumbai are considerably heterogeneous to provide pocket-friendly casual meals or a lavish dining experience. Mumbai's Khau Gallis offer some of the most finger-licking and delicious street food. Now, let's dig right into the mouth-watering delights Mumbai has to offer.

Business Problem:

Mumbai is a massive city with a very cosmopolitan feel and this is the reason it has a diverse range of cuisines. There are plenty of restaurants where you can have pocket-friendly meal or a lavish dining experience. One of the main problems is that people are unaware of famous restaurants and places available in a specific locality. This not only applies to the tourists but also to the local people. Today, there are a large number of restaurants established in Mumbai. With the increase in number of restaurants people often get confused about the best-suited restaurant according to their preferences. In addition to that, people often face a hard time to find out the best place near their locality. The main aim of this project is to recommend restaurants based on the location of the user.

Data:

The following data will be used to solve the problem

- 1) List of all the neighbourhoods in Mumbai.
- 2) Latitude and Longitude of those neighbourhoods.
- 3) Data related to the restaurants in those neighbourhoods.

The list of all the neighbourhoods in Mumbai and their location (Latitude and Longitude) is extracted from Wikipedia. Link to the Wikipedia page:

https://en.wikipedia.org/wiki/List_of_neighbourhoods_in_Mumbai.

BeautifulSoup (a web scraping package in python) is used to extract the neighbourhood data.

The data related to the restaurants in a neighbourhood is obtained by using the Foursquare API. The name of the restaurant, category, the location of the restaurant etc can be extracted using the Foursquare API.