

Coursera Capstone

IBM Applied Data Science Capstone

Analyzing Restaurants in Bangalore



Introduction

Bangalore is one of the few metropolitan cities in India which has a lot to offer in various perspectives such as food, entertainment, job opportunities, tourism and whatnot. I'll be taking a small subset of this inexhaustive list and try to solve a problem that could be possibly solved or made easier with the help of Data Science and Machine Learning tools at my disposal.

For a city this big a size, it is always going to be difficult for a visitor or even a resident to decide upon a place to eat in which is both affordable and well-rated. With so many options available at hand, making such a decision is always a difficult ask because not all of us can afford to visit all the luxurious places and while others don't have the patience to have a try them all one by one.

Problem

According to the problem already mentioned above we'll try formulating it as such so that it could be answered feasibly with the help of Data Science. The problem can be classified as differentiating out the varying varieties of restaurants available in Bangalore and whether we can group similar restaurants together which have a similar rating and a relatively affordable price for various ranges so as that it could fit into certain categories and the decision of visiting these restaurants could be made easier.

Data

To solve the following problem we'll be making use of the following data:

- Fetching the data from Geopy for getting the coordinates of Bangalore (since Geopy seems to be down we'll just do a Google Search)
- Data from the Foursquare API making appropriate calls to get a list of Trending venues across a radius of about 9kms.
This data would contain information about venues which are not restaurants as well so we'll have to Clean such data as well.
- Data from the Zomato API as well, which would contain the restaurants (which will be used to drop the non restaurant venues from the Foursquare data) and contain the ratings and average price of these restaurants as well which form the backbone of the analysis.