

IBM DATA SCIENCE APPLIED CAPSTONE

Open a New Bar in Bengaluru,Karnataka,India

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Business problem

To find out best location or neighborhood in capital city of Karnataka, Bengaluru(Bangalore) , India. Bengaluru is becoming a hub of pubs. With college students and travelers filling the city of Bangalore, the capital of Karnataka, it is increasingly becoming one of the top cities for party goers. We try to find out the best places for someone who is looking to open a bar in Bengaluru.

By word best it means what location would best suit the business and how would it affect business whether it will be a success or failure.

Target Audience

The project is useful for investors who are looking to open or invest in opening new bars in city(Bengaluru).The project would briefly explain with valid reasons to all types of investors whether be small scale or large scale and then recommend a best place according to the needs of investor.

Data

The following data will be used to solve the business problem

- 1 . List of areas or neighborhoods in Bengaluru.
- 2 . Location of neighborhoods (latitude and longitude)
3. Venue category (data about nearby centers of particular venue)

Source of Data:

Webscraping:

This 'http://en.wikipedia.org/wiki/List_of_neighbourhoods_in_Bangalore' webpage from which data

scrapped using python modules like beautifulsoup and requests.Only the required data i.e.neighborhood name is extracted from the webpage and then their corresponding location(Latitude and longitude) is retrieved from geocoder package in python.

Venue categories :

We use foursquare API to get venue data for neighborhoods.This API helps us to retrieve categories of venue data out of which we are interested in "BAR" category.This will help us solve the business problem.

Clustering:

Clustering is done based on number of bars present in each of neighborhood.

Map Visualisation:

After clustering,clusters are represented on geographical map with each cluster of different color.