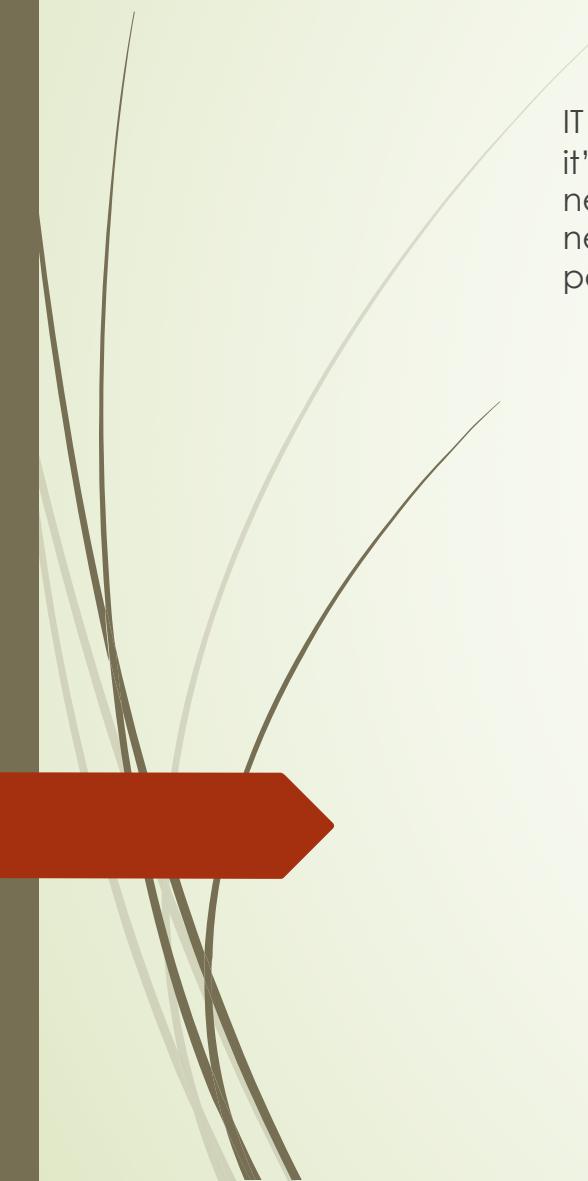




Restaurant@Bangalore, INDIA

A Data Science Capstone Project by NikunjaBihari

Introduction / Business Problem



We have a friend who wish to setup a new restaurant in the city of Bangalore, India which is considered as the IT city of the country. Although he has some moderate level of knowledge about the city's neighborhoods/areas and it's famous venues, but not quite sure in details of each and every neighborhoods & cant really compare every neighborhoods and venues manually like visiting every places personally and exploring to figure out which neighborhood would be most suitable to open up a restaurant and what type of restaurant would be best which is popular amongst Bangalorians and will easily fetch customers as well good profit.

So, the 2 main business problem here with us are as follows:

1. Which neighborhood/area would be best to open a new restaurant in Bangalore.
2. What type of restaurant is most popular & best in Bangalore to easily get customer & earn profit.

Data Requirement

- To explore each and every areas of Bangalore, 1st we need to collect all the neighborhood names & it's Pin codes / Postal codes.
- <https://www.mapsofindia.com/pincode/india/karnataka/bangalore> - We found this website link by searching in the internet which lists all the neighborhoods & its respective Pincode of Bangalore city.
- We will use the beautiful soup library to extract the neighborhood names and its Pincode from the table in the website.
- If there are multiple neighborhoods for any Pincode, we will merge them into one as these fall into the same area.
- By using the Pincode i.e. postal code of each neighborhood, we will use the google geocoder to get the latitude & longitude for each Pincode.
- Once we have the data of neighborhoods with its respective latitude and longitude values. We can use the Foursquare API to explore each neighborhood area to get top 100 common venues.
- Then we can analyze the common venues around the neighborhoods, segment and cluster the neighborhoods based on the category of venues which are more common to a specific neighborhood.
- We will see the most common type of restaurants found in Bangalore to choose our type of restaurant to open.
- We will segregate the neighborhoods based on the restaurant density and find an area which has less restaurant density at the same time has other business venues and market places which will ensure that there are enough crowd in those areas to easily get customers for the restaurant and eventually to turn it into profit in terms revenue.