

Restaurant Dataset Analysis



Predicting the Restaurant Attribute

- The restaurant market in Bengaluru is highly competitive and technologically driven.
- The purpose of this project is to guide new entrepreneurs and business on how, what and where should a new restaurant be established.
- The dataset used for the project is a Kaggle dataset in conjunction with Foursquare API data

Data acquisition and cleaning

- The dataset used for the project was a kaggle dataset :
(<https://www.kaggle.com/himanshupoddar/zomato-bangalore-restaurants>)
- The data collected from kaggle and foursquare was cleaned and processed for analysis.
- Duplicate, highly similar or highly correlated features were dropped.
- Cleaned data contains 12 features.

Libraries used for the project

- Folium
- Pandas
- Numpy
- Seaborn
- Foursquare API
- Geopy
- Matplotlib

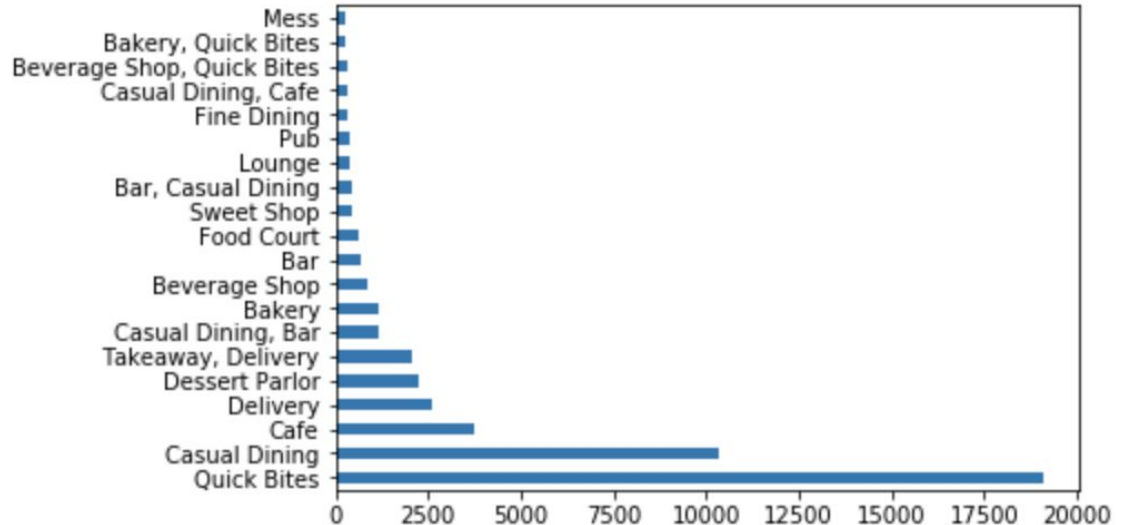
```
import requests # to handle requests
!conda install -c conda-forge geopy --yes
from geopy.geocoders import Nominatim # module to convert an address into latitude and longitude values

#transforming json file into a pandas dataframe library
from pandas.io.json import json_normalize
!conda install -c conda-forge folium=0.5.0 --yes
import folium # plotting library
```

```
%matplotlib inline
import types
import pandas as pd
from botocore.client import Config
import ibm_boto3
import matplotlib.pyplot as plt
import numpy as np
import seaborn as sns
def __iter__(self): return 0
```

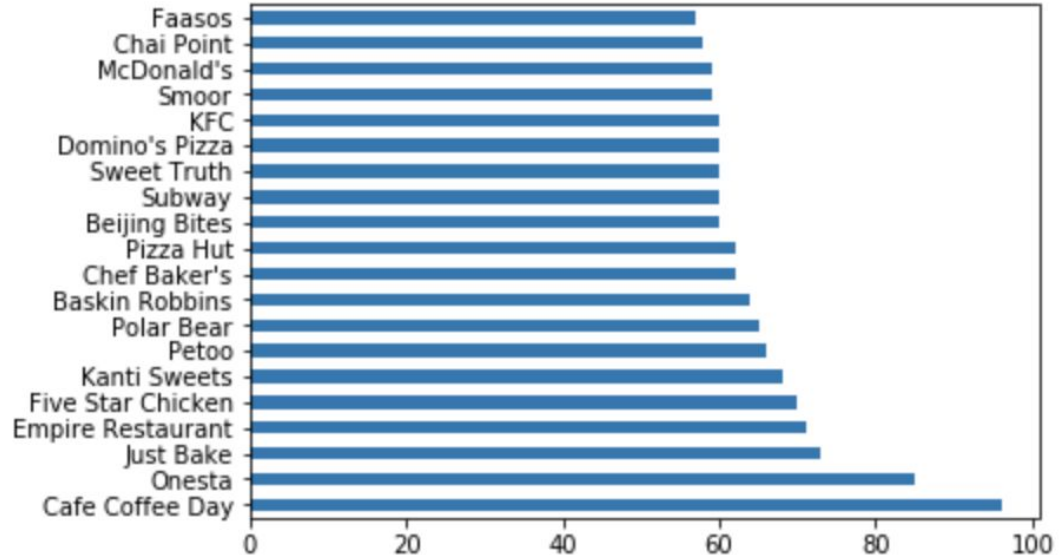
Popular Restaurant Types

- “Quick Bites” and “Casual Dining” are the most popular restaurant types.



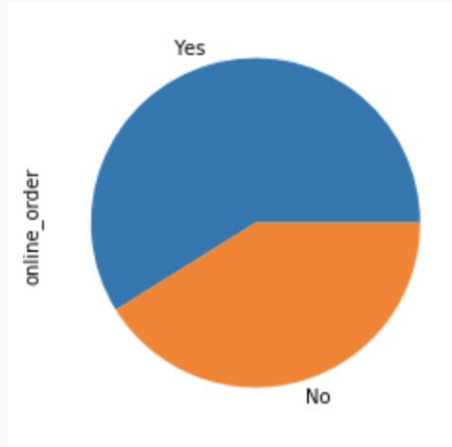
Popular Restaurants

- Cafe Coffee Day is the most popular restaurant chain, having the highest number of votes and restaurants.



Location and Online orders

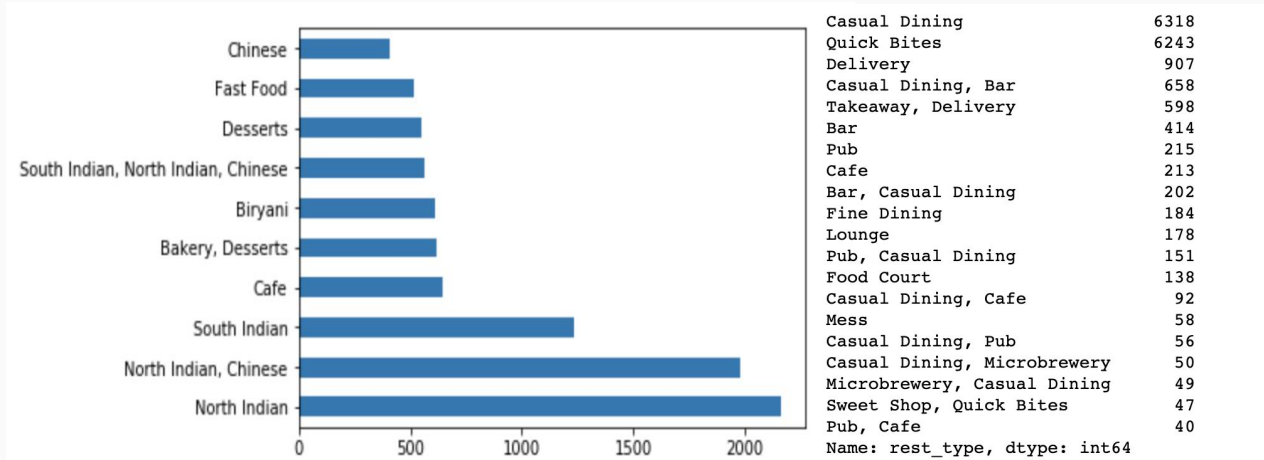
- Majority of the restaurants have an online order facility.
- BTM and Brigade road are the most popular location for restaurants.



	votes
location	
BTM	619376
Brigade Road	429620
Bannerghatta Road	219077
Bellandur	206027
Banashankari	162374
Brookefield	118991
Basavanagudi	94919
Banaswadi	35657
Basaveshwara Nagar	18133
Bommanahalli	7703

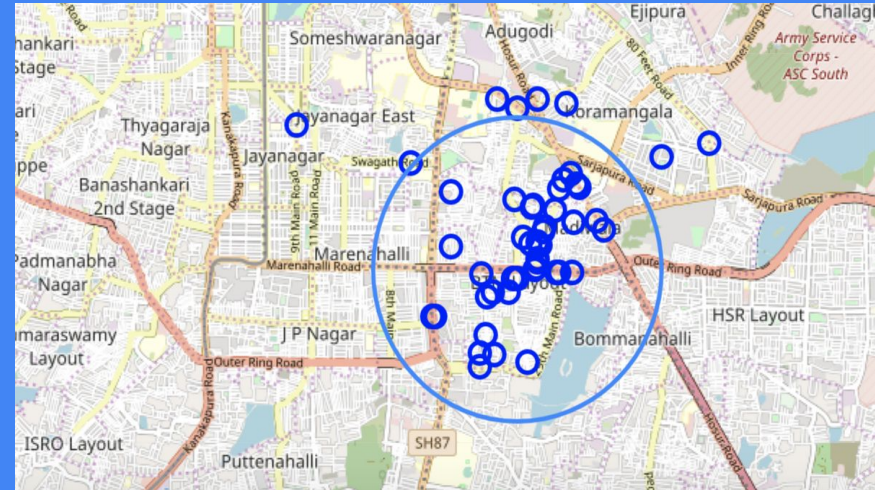
Restaurant Cuisine

- North indian is by far the most popular cuisine in the city of Bengaluru.
- Amongst restaurants serving north indian food, casual dining is the most popular restaurant type



Using the foursquare API for clustering real time information about restaurants

BTM is highly clustered and
preferable location for new
restaurants



Conclusion and Future Considerations

- A new restaurant should be located in either of the most popular areas :BTM or Brigade road
- Cuisine which should be selected for establishing the restaurant should be North Indian.
- Online order facility is also a necessity.
- Casual dining/Quick Bite eateries are the most popular.