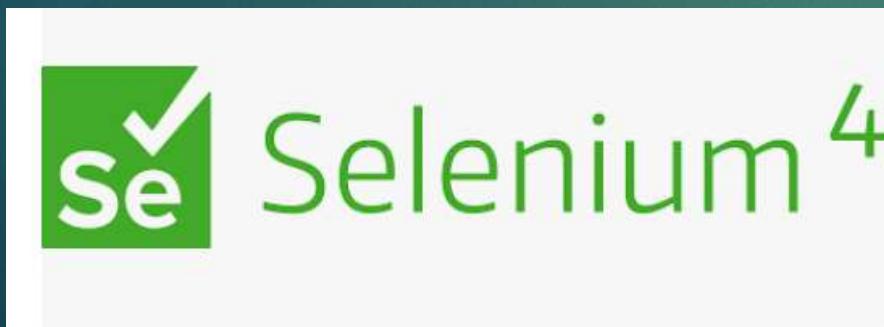


Zomato - Food Delivery Analysis

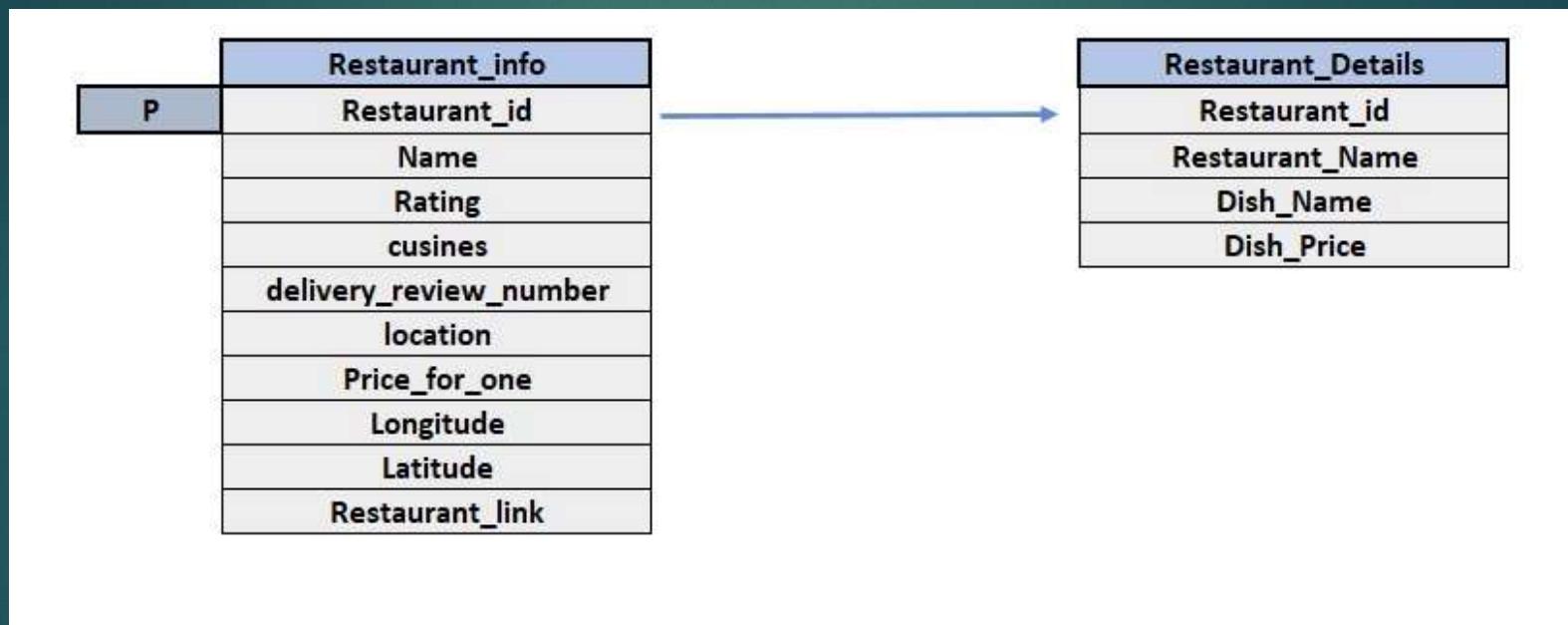


Web Scraping

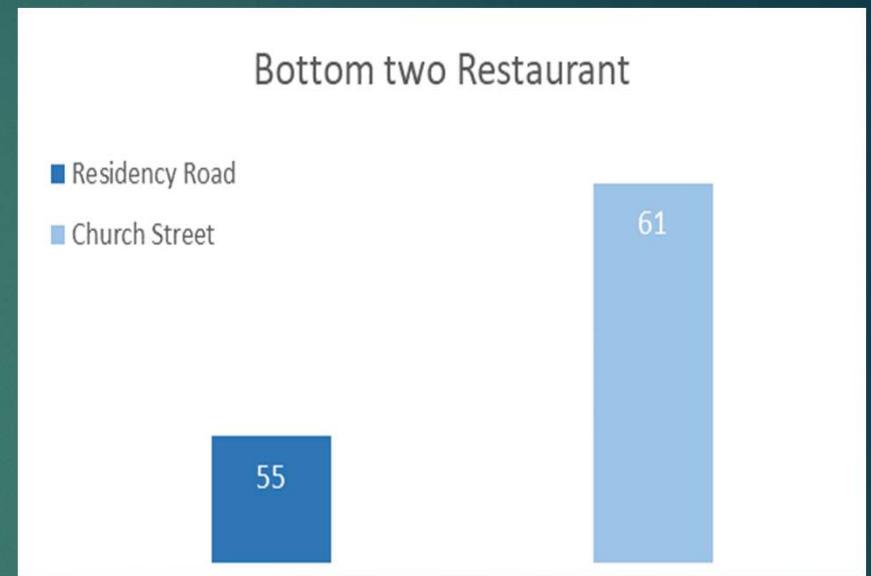
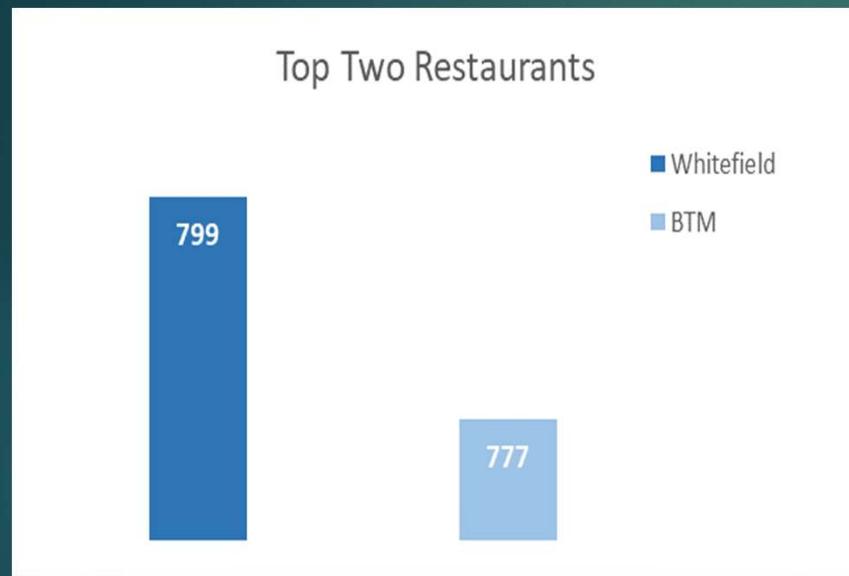
Tech Stacks Used



DATA OVERVIEW



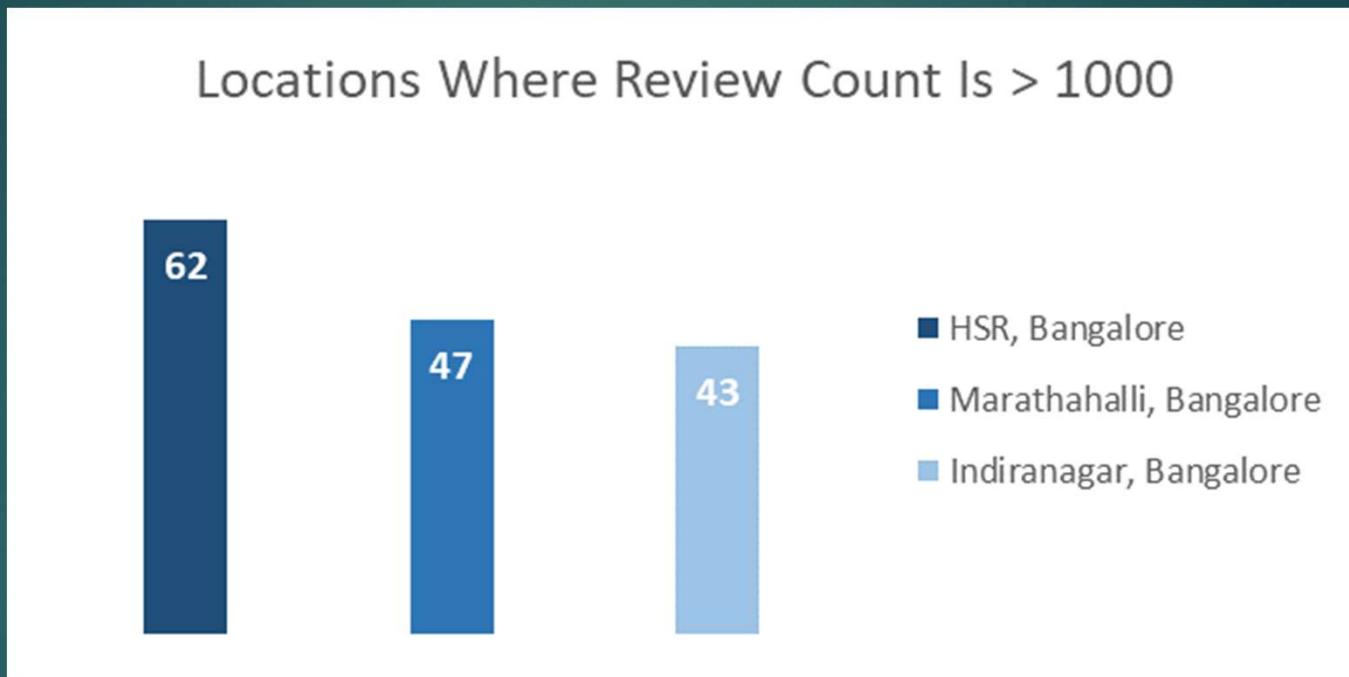
Area-wise distribution of restaurant



- This data is of all the restaurants listed in Bangalore Zomato
- As we can see from above charts Whitefield and BTM have highest number of restaurants and Residency Road and Church street have least number of restaurant listed with Zomato

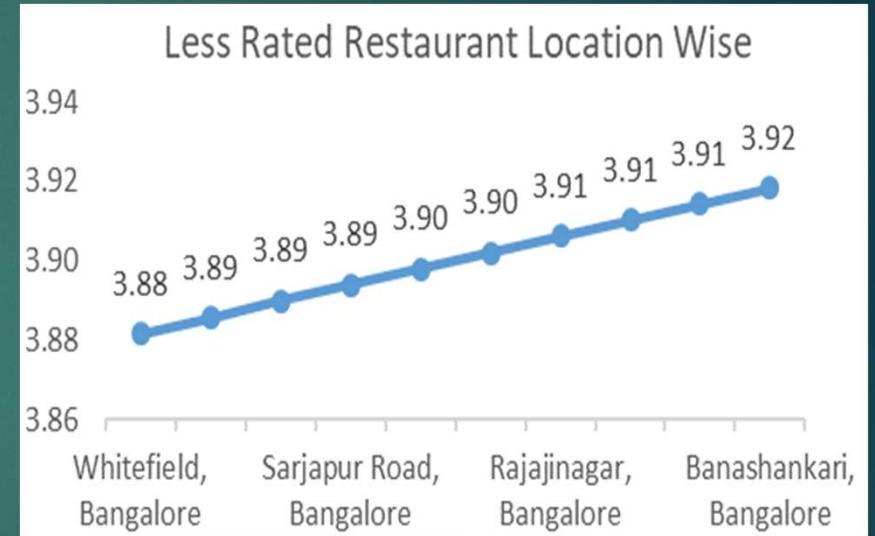
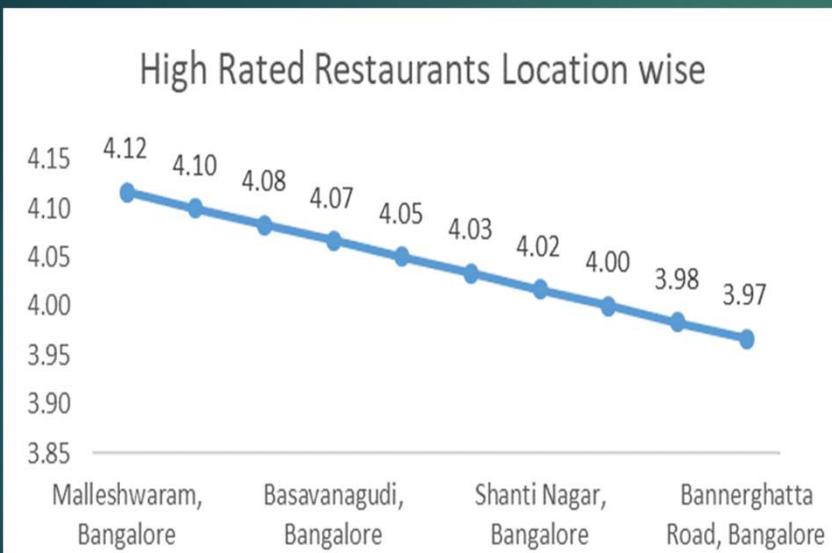


Location where delivery review number is greater than 1000



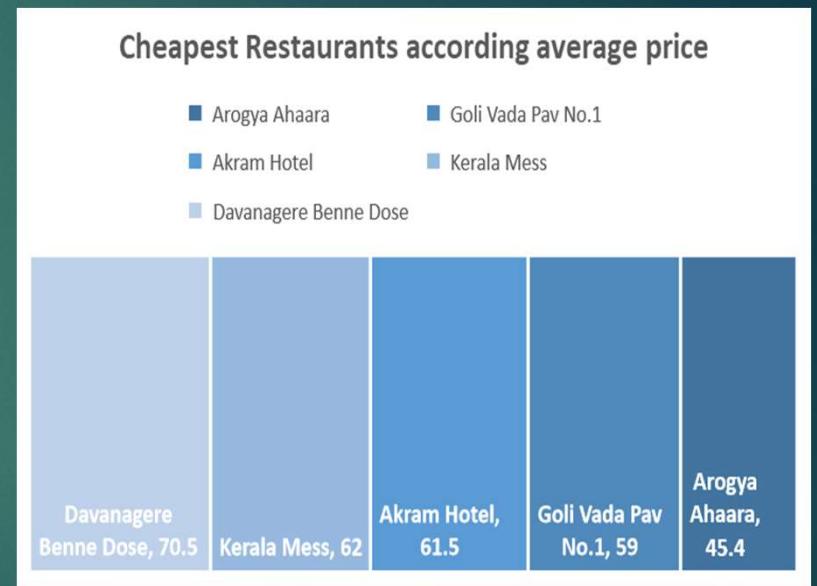
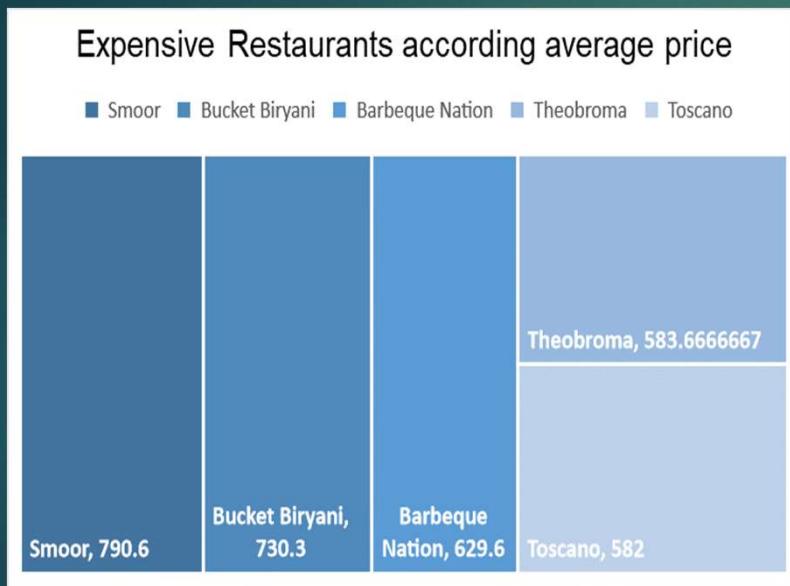
- HSR, Marathahalli, Indiranagar have highest number of delivery review numbers those are 62, 47 and 43 respectively in Zomato

Area wise restaurant rating



- Restaurants situated at Malleshwaram have highest number of ratings whereas Restaurants of Whitefield have least number of ratings in the city Bangalore

Cheap and expensive restaurant and their average price.



- Smoor with average price 790 rupees is most expensive restaurant and Arogya Ahaara with 45 rupees is cheapest restaurant in Bangalore



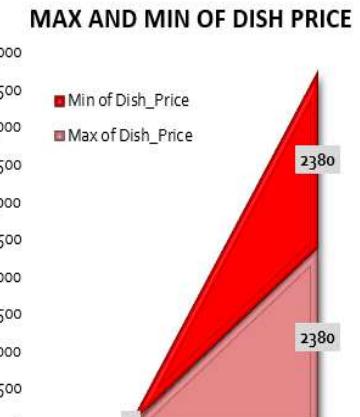
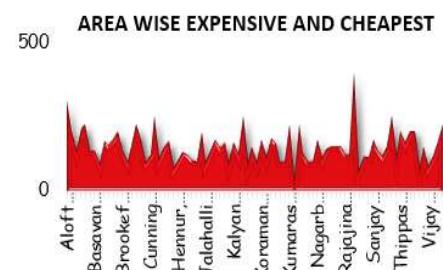
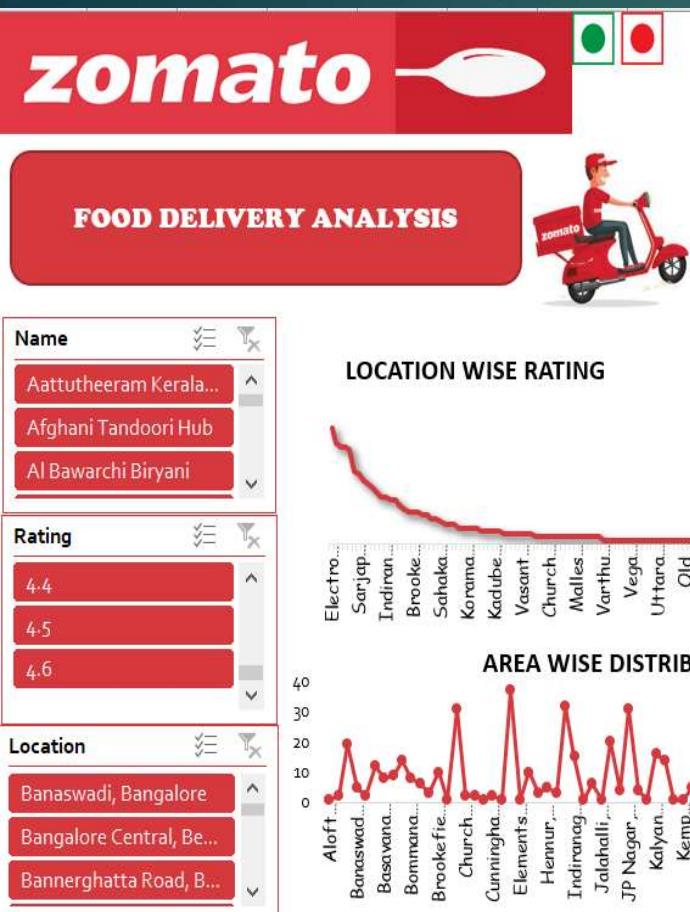
Number of restaurant for each type of cuisine.

No_restaurant	cusines
1	48 Pizza, Fast Food, Desserts, Beverages
2	31 Biryani, Kebab, Hyderabadi, Lucknowi
3	25 Burger, Fast Food, Beverages
4	22 Pizza, Fast Food
5	18 Burger, Fast Food, Biryani, Desserts, Beverages
6	16 North Indian, Wraps, Fast Food, Biryani, Desserts, ...
7	15 Rolls, Wraps, Fast Food
8	15 Ice Cream, Beverages, Shake
9	14 Burger, Fast Food, Beverages, Desserts
10	14 Andhra, Biryani, South Indian, Desserts, Beverage...
11	13 Burger, Fast Food, Wraps, Street Food, Desserts, ...
12	12 Ice Cream, Desserts
13	12 North Indian, Biryani, Kebab, Chinese, South India...
14	11 Burger, Fast Food, American
15	11 Beverages, Desserts, Ice Cream, Waffle, Bakery,
145	1 North Indian, Mughlai, Chinese, Biryani, Sichuan, ...

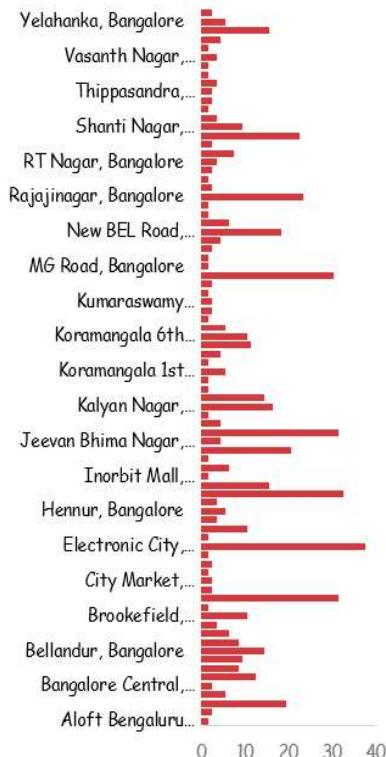


- Pizza, Fast food, Desserts and Beverages got highest number of restaurants among all categories for each type of cuisines which are 48.
- Followed by Biryani, Kebab, Hyderabadi, Lucknowi which are 31
- North Indian, Mughal, Chinese, biryani got least number of restaurants which is 1

Dashboard



LESS RATED RESTAURANT



You are hired in a consultancy firm , one of their client want to open a remote kitchen (Only delivery) in Bangalore suggest them which location will be suitable for their restaurant and what should be the price of different types of dishes in early days.



- Through above analysis we have figured out that Malleswaram and Basavanagudi got top rated restaurants as well as the number of restaurant in these areas are not so high, so competition is average, so we can say that person can open a kitchen in these areas
- Average price for one in these areas is between 200-300 rupees, so our client should range price between 200-300 rupees
- Most dishes consume by Bangalore public through Zomato are Pizza, Rolls, Biryani, Burgers, Sandwiches so our client should focus on selling these dishes

Part 2

Tech Stack Used for ML and Webpage



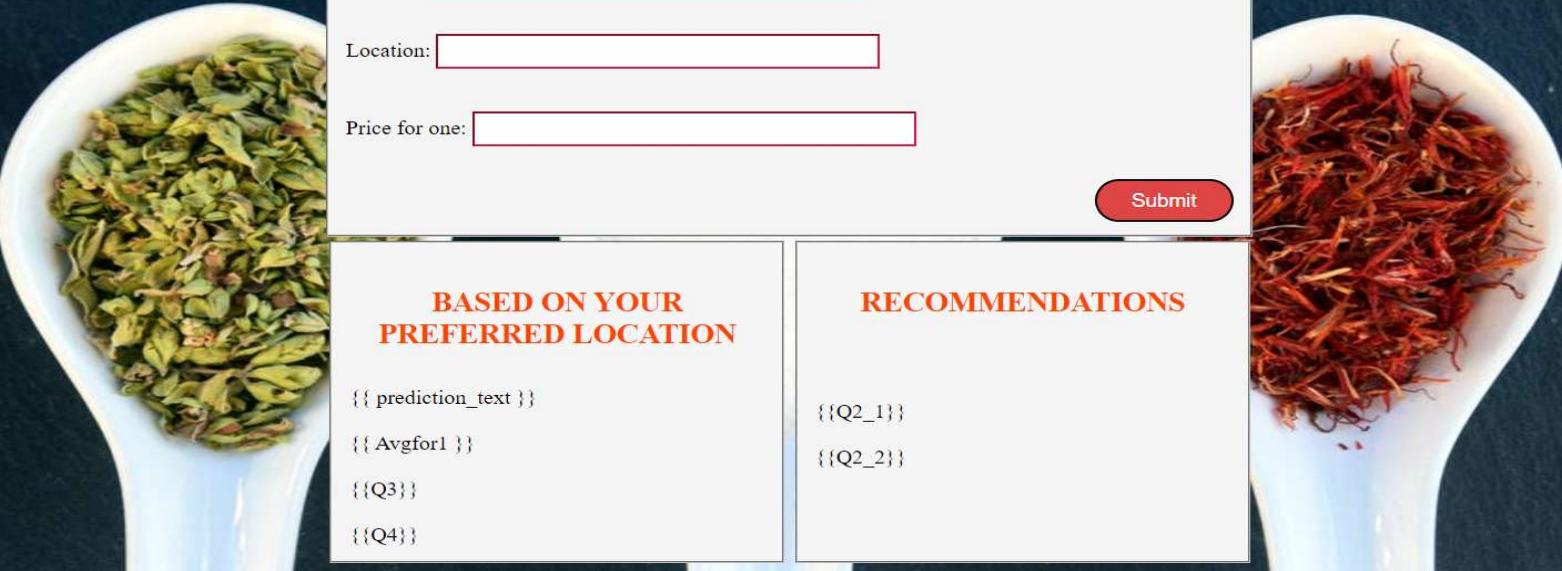
Objectives:

Objectives:

- We have to take input of Cuisine, Location, Price for one
- Show Popular Cuisines, Most Popular restaurant etc based on the inputs
- We had to recommend price and location based on ML model

Webpage

Zomato Prediction



INPUT VALUES

Cuisine:

Location:

Price for one:

Submit

BASED ON YOUR PREFERRED LOCATION

`{{ prediction_text }}
 {{ Avgfor1 }}
 {{Q3}}
 {{Q4}}`

RECOMMENDATIONS

`{{Q2_1}}
 {{Q2_2}}`

Challenges Faced



- We have to get the basic knowledge of HTML to scrap the data
- Have learned python libraries like Selenium and BeautifulSoup through documentation, YouTube and articles of medium and stack overflow
- HTML and CSS knowledge to create the webpage
- We have to learn Flask to integrate the webpage with the help of Pickle library
- Further cleaning of data was done with the help of pandas library of python and excel, as well as calculation for values

Learnings



- We learned various libraries of python Selenium, BeautifulSoup, Flask, Pickle
- Learnt how to automate the website
- Learnt to create webpage using HTML and CSS and integrating our model with the help of flask
- Also helped us gain some knowledge about HTML.
- Data cleaning and Data analysis specific to project
- Worked as a team and all the team members put equivalent effort to complete the project



zomato

Submitted By
Sunil Singh

