

Food Delivery

Scrape data from food delivery platform Zomato using python library called BeautifulSoup (or similar) and collect information in the given format and make 2 tables using the data:

Table 1 : restaurant_info

Attributes in table - 1:

- restaurant_id : Unique ID to identify the restaurant(Primary Key)
- restaurant_link : Zomato URL for that restaurant
- name: Name of the restaurant
- rating: Rating of the restaurant on Zomato
- price_for_one: Price of one person
- cuisines: What types of cuisine offered by the restaurant

All the details can be found on the link - <https://www.zomato.com/bangalore/> as shown in the screenshot

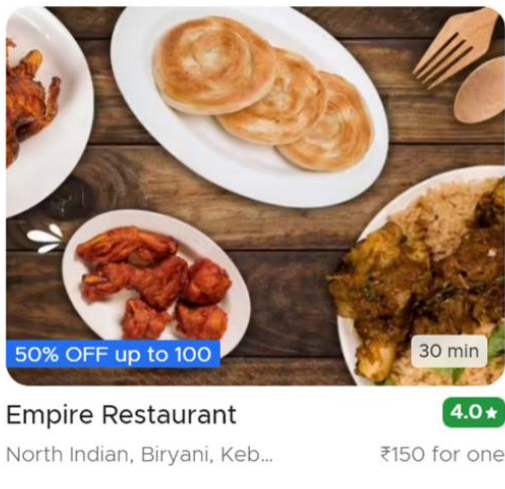


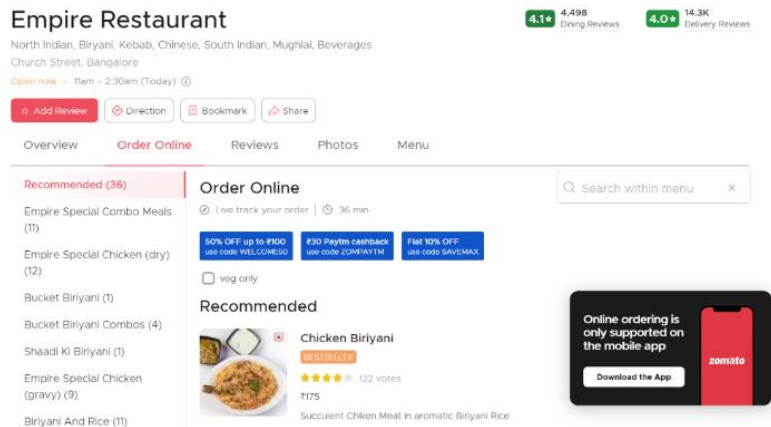
Table 2 : restaurant_details

Attributes in table - 2:

- restaurant_id : Unique ID to identify the restaurant(Primary Key)
- restaurant_name : Name of the restaurant
- latitude : Latitude of the restaurant
- longitude: Longitude of the restaurant
- location - Location of the restaurant
- delivery_review_number: How many people reviews delivery

All the details of this table 2 can be scraped from -

<https://www.zomato.com/bangalore/> + restaurant_name
as shown in the screenshot below:



Following needs to be ensured while scraping:

- There has to be more than 500 restaurants.
- Once you have the database of 2 tables created.
 - You need to generate aggregations and that will help you create dashboard which should be able to help the end user with following insights:
 - Area-wise distribution of restaurant
 - Which is cheapest and expensive restaurant for each types of cuisine.
 - Which location maximum number of restaurant where the `delivery_review_number` is greater than 1000.
 - Generate any one interesting insight from the data.
 - Which location maximum number of less rated restaurant.
 - Area wise cheap and expensive restaurant and their average price.
 - Number of restaurant for each type of cuisine.
 - 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.

Phase 2

Build a recommendation model for someone who wants to open a restaurant in Bangalore, which works as follows :

Input :

- Cuisine

- Preferred Location
- Preferred Price for 1

Output :

Output part 1

- for the area selected, display the popular cuisine
- average price for 1
- Display the most popular Restaurant and Cuisine they are serving
- Display the most popular restaurant that is serving the same cuisine as user provided cuisine

Output part 2 (Recommendation) :

- Suggest a Price for 1 (If preferred price for 1 is lower than model prediction you can suggest the price increase to some percentage but lower than predicted and Preferred price is higher than the suggested, recommend the optimum price which will be equal to predicted price by the model)
- Based on Cuisine and Price, suggest the best possible location

Final Outcome should look something like this

Recommendation Model

Cuisine :
Preferred Price for 1 :
Preferred Location :

Based on your preferred Location

Average price for 1 :
270 Rs
Popular Cuisine :
North Indian
Most Popular Restaurant :
ABC Restaurant
Serves :
North Indian
Popular Restaurant that serves your Cuisine :
XYZ Restaurant

Recommendations
Recommended Price
150 Rs
Recommended Location
HSR Layout