**Steps for Zomato data wrangling:**

**Data extraction:**

· The data is extracted from Zomato website using Python package ‘**Beautiful Soup’**.

· This is data is for all restaurants of Bangalore city which is around 12k-13k of records, pulled as of January 2020.

· Following are the fields

1. **restaurant\_link**: Link for the restaurant

2. **restaurant\_ID**: Unique restaurant id

3.  **restaurant\_name**: Name of the restaurant

4. **locality**: neighbourhood of the restaurant

5. **restaurant\_category**: Category of restaurant based on what food they serve, like dining or quick bites, etc.

6. **zomato\_gold**: Whether the restaurant provides zomato gold benefits

7. **discounts**: Discounts offered by the restaurant

8. **photos\_taken**: Number of photos taken at the restaurant

9. **rating**: Zomato rating

10. **votes**: Votes for the ratings or reviews

11. **cuisines**: Type of cuisines served

12. **approx.\_cost\_for\_2**: Approx cost for 2 people

13. **opening timings**: Opening and closing timings of the restaurant

14. **address**: Detailed address of the restaurant

15. **latitude**: Latitude of restaurant

16. **longitude** :Longitude of the restaurant

17. **more\_info**: main features or services provided by the restaurant like delivery, outside seating, etc

18. **featured\_in**: Featured in which categories of Zomato collections

19. **most\_liked\_food**: Most liked or famous for in food items and rating

20. **most\_liked\_service**: Most liked service of the restaurant and rating

21. **most\_liked\_look&field**: Most liked, look and feel of the restaurant and rating

22. **reviews**: Reviews available on first page of the restaurant along with time of review posted and sentiments.

**Data cleaning:**

· Most of the data is cleaned/formatted while scraping.

· Some columns are manipulated to tuples.

· Opening and closing timings are transformed to datetime formats.

· Missing values are transformed to np.NAN

· Duplicates rows, if any, are removed based on the restaurant\_id.

· No outliers.

For Data cleaning and EDA refer:

<https://github.com/Anandpatil412/Zomato_Res_analysis_Pred_Rating/blob/main/DataWrangling/zomatoDataCleaning.ipynb>

For Web scarping refer:

[https://github.com/Anandpatil412/Zomato\_Res\_analysis\_Pred\_Rating/blob/main/ DataExtraction(WebZomato)/zomatoScrapper.ipynb](https://github.com/Anandpatil412/Zomato_Res_analysis_Pred_Rating/blob/main/%20DataExtraction(WebZomato)/zomatoScrapper.ipynb)