

Capstone Project #2 proposal : Restaurant Review sentiment analysis

(Unit 7)

Problem Statement formation:

Zomato is a restaurant aggregator and food delivery startup. They provide information, menus, user-reviews and ratings of restaurants in select cities. In the hypothetical situation, it is brought to the notice of the organisation that the ratings on the city have been compromised. The assumption is that while reviews are not paid the restaurant ratings maybe. It may be the organization themselves who wanted to promote certain restaurants. The board wants to revise the ratings based on writ user reviews to map which restaurants could have been affected and leverage on any takeaways if any.

Context:

The ratings of few restaurants in the city have been compromised. The startup wants a new restaurant rating based on user writ reviews to see which restaurants could be affected.

Criteria for success

Renewed ratings for the city's restaurants based on user writ reviews.

Action points/takeaways to leverage on if any.

Constraints:

Assumption that user reviews and ratings originally had a fair mapping.

Stakeholders:

Hypothetical Zomato Board.

Data Sources:

This project will examine [data](#) from Zomato's restaurant reviews. The dataset contains details of 51717 restaurants in Bangalore and its reviews. The data is in CSV format.

(Metadata with column descriptions)

A	B	C	D	E	F	G	H	I	J
url	address	name	online_order	book_table	rate	votes	phone	location	rest_type
https://www	942, 21st Ma	Jalsa	Yes	Yes	4.1/5	775	080	Banashankar	Casual Dining
https://www	2nd Floor, 8C	Spice Elepha	Yes	No	4.1/5	787	080 4171416	Banashankar	Casual Dining
https://www	1112, Next to	San Churro C	Yes	No	3.8/5	918	+91 9663487	Banashankar	Cafe, Casual
https://www	1st Floor, An	Addhuri Udu	No	No	3.7/5	88	+91 9620009	Banashankar	Quick Bites
https://www	10, 3rd Floor	Grand Villag	No	No	3.8/5	166	+91	Basavanagur	Casual Dining
https://www	37, 5-1, 4th f	Timepass Di	Yes	No	3.8/5	286	+91	Basavanagur	Casual Dining
https://www	19/1, New T	Rosewood In	No	No	3.6/5	8	+91	Mysore Roac	Casual Dining
https://www	2469, 3rd Fl	Onesta	Yes	Yes	4.6/5	2556	080	Banashankar	Casual Dining

K	L	M	N	O	P	Q
dish_liked	cuisines	approx_cost	reviews_list	menu_item	listed_in(type)	listed_in(city)
Pasta, Lunch	North Indian	800	[('Rated 4.0', 'RATED\n A beautiful place to dine in		Buffet	Banashankari
Momos, Lunch	Chinese, Nor	800	[('Rated 4.0', 'RATED\n Had been here for dinner v		Buffet	Banashankari
Churros, Can	Cafe, Mexica	800	[('Rated 3.0', 'RATED\n Ambience is not that good		Buffet	Banashankari
Masala Dosa	South Indian	300	[('Rated 4.0', 'RATED\n Great food and proper Kai		Buffet	Banashankari
Panipuri, Gol	North Indian	600	[('Rated 4.0', 'RATED\n Very good restaurant in ne		Buffet	Banashankari
Onion Rings, North Indian		600	[('Rated 3.0', 'RATED\n Food 3/5\nAmbience 3/5\		Buffet	Banashankari
;	North Indian	800	[('Rated 5.0', 'RATED\n Awesome food ??Great se		Buffet	Banashankari
Farmhouse F	Pizza, Cafe, I	600	[('Rated 5.0', 'RATED\n I personally really liked thi		Cafes	Banashankari

Variable	Type	#Unique Values	Description
url	object	51,717	contains the url of the restaurant in the zomato web-site
address	object	11,495	contains the address of the restaurant in Bengaluru
name	object	8,792	contains the name of the restaurant
online_order	category	2	whether online ordering is available in the restaurant or not
book_table	category	2	table book option available or not
rate	object	64	contains the overall rating of the restaurant out of 5
votes	int	2328	contains total number of rating for the restaurant as of the above mentioned date
phone	object	64	contains the phone number of the restaurant
location	category	93	contains the neighborhood in which the restaurant is located
rest_type	category	93	restaurant type
dish_liked	object	5271	dishes people liked in the restaurant
cuisines	object	2723	food styles, separated by comma
approx_cost(for two people)	float	70	contains the approximate cost for meal for two people
reviews_list	object	22513	list of tuples containing reviews for the restaurant, each tuple consists of two values, rating and review by the customer
menu_item	object	9098	contains list of menus available in the restaurant
listed_in(type)	category	7	type of meal
listed_in(city)	category	30	contains the neighborhood in which the restaurant is listed