

# **Bangalore Restaurants Analysis**

**Report for the project**

**By**

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# **1. Introduction**

Food. Everyone loves it, everyone has it. Everyone even talks about it. Food is something we can talk about for hours and hours. India is rightly called the Land of Spices. No country in the world produces as many varieties of spices as India. The restaurant industry in India has witnessed an unprecedented transformation with the entry of a variety of national and international players. This has, in turn, given birth to a huge demand for qualified professionals in the sector and all related industries. Thanks to the technological revolution, Indian restaurant setups have now gone online to gain more customers and serve them better. But the demand-and-supply graph isn't quite the way it should be. With a noticeable shortage of skilled professionals, the restaurant industry presents a whole gamut of opportunities waiting to be grabbed. Enter culinary arts institutes. Traditional cooking schools and hotel management colleges have now expanded the range of education they offer in order to satisfy industry demands. Indian universities are investing time and money to train students to make them able and employable. It's not surprising that the higher frequency of eating out has also evolved the market for the food services sector. The Indian food service market has come a long way from the early Nineties when it was dominated by unorganised players and few brands. The revolution began in 1996 with McDonalds, Pizza Hut, Domino's Pizza, Subway and Yo! China, among others, setting up shop in the country. Since then, the food services market has been continuously growing. The good news is that the food services industry is set to grow for many years to come, given the rising disposable incomes, a greater population of younger people, the growth of consumers in smaller towns and the widening exposure to new cultures and cuisines besides an increased propensity of eating outside the home. The analysis will mainly help new restaurants in examining the factors affecting their restaurant location.

## **2. Purpose of study**

The basic idea of analyzing the Zomato dataset is to get a fair idea about the factors affecting the aggregate rating of each restaurant, establishment of different types of restaurants at different places, Bengaluru being one such city has more than 50,000 restaurants with restaurants serving dishes from all over the world. With each day new restaurants opening the industry hasn't been saturated yet and the demand is increasing day by day. Inspite of increasing demand it however has become difficult for new restaurants to compete with established restaurants. Most of them serving the same food. Bengaluru being an IT capital of India. Most of the people here are dependent mainly on the restaurant food as most people don't have time to cook for themselves. With such an overwhelming demand of restaurants it has therefore become important to study the demography of a location. What kind of a food is more popular in a locality. Do the entire locality loves vegetarian food. If yes then is that locality populated by a particular sect of people for e.g. Jain, Marwaris, Gujaratis who are mostly vegetarian. This kind of analysis can be done using the data.

## **3. Properties**

### **3.1 File Format**

The data is in CSV format. I did all the work like cleaning, replacing and all in Power BI itself.

### **3.2 Content**

The dataset contains 17 variables all of which were scraped from the Zomato website. The dataset contains details of more than 50,000 restaurants in Bengaluru in each of its neighbourhood. The data is correct to the best of my knowledge, to that available on the Zomato website until 15 March 2019. The total size of the dataset is approximately 547MB. The dataset examined has the following dimensions: Feature Result Number of Observations -51,717 Number of Variables – 17.

## 4. Description

Variable	Type	Unique Value	Description
URL	Object	51,717	contains the URL of the restaurant in the zomato website
Address	Object	11,495	contains the address of the restaurant in Bengaluru
Name	Object	8792	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 ratings for the restaurant
Phone	Object	64	contains the phone number of the restaurant
Location	Category	93	contains the neighbourhood which the restaurant 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	Float	70	contains the approximate cost
Review list	Object	22513	list of tuples containing reviews
Menu item	Object	9098	contains list of menus available
listed in(type)	Category	7	type of meal
listed in(city)	Category	30	contains the neighbourhood in which the restaurant is listed

# **5. Methodology**

On analysing the data it was found that the name and address can be the primary key for our data. So based on these two column all the values which were duplicate in our data were dropped. Our main aim is to find out what type of food is more popular or is ordered more in a particular locality of Bangalore. But the problem is we don't have any column in our data that can exactly speak about a place. But we had the reviews column for each of the restaurant for neighborhoods of Bengaluru. So for each restaurant those reviews that were greater than equal to 3 we extracted the most liked food of that restaurant. In our dataframe we had menu column for each of the restaurants. So a food corpus or menu corpus was created for the entire data. Now for each of the restaurant review all those review(greater than 3) that contained food items from the corpus in it were only extracted. Since the data was not structured and the food menu contained a lot of noise in it. A careful analysis of the corpus was done to remove those menu that were not a food item. After extracting the liked food for each of the restaurant it was stored in a list of menu items which will later then be used for our analysis.

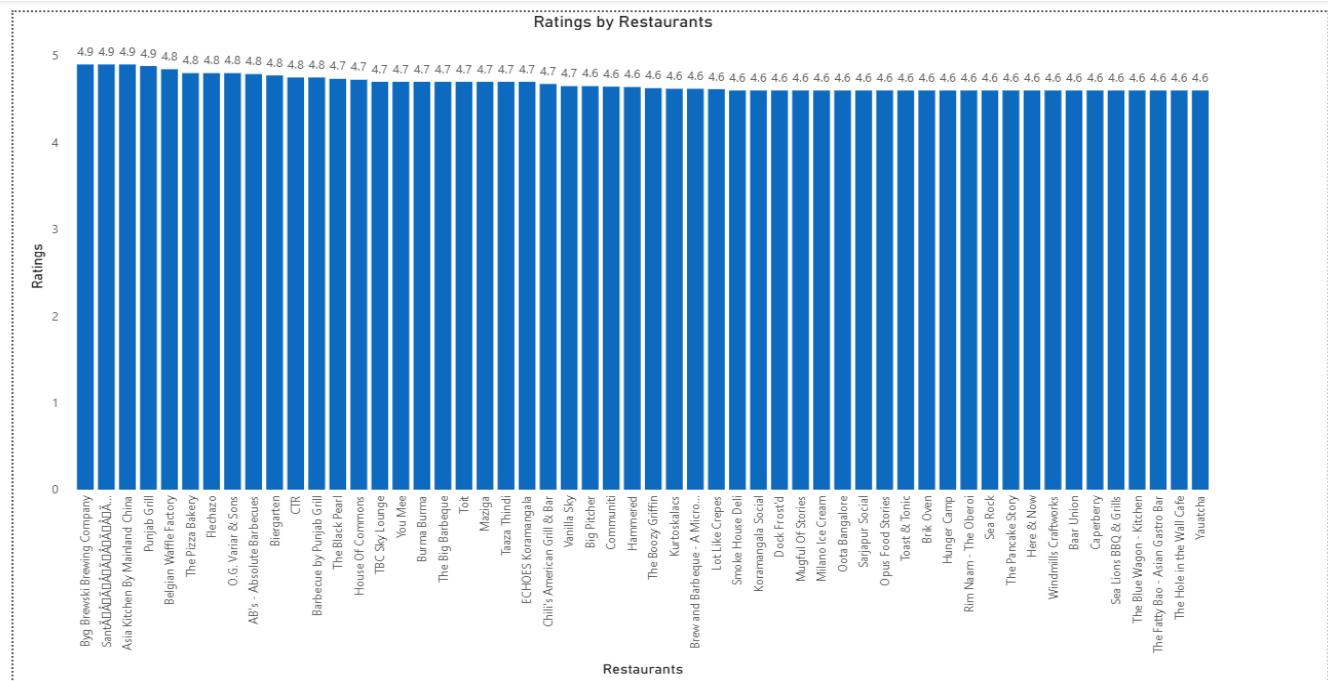
## **5.1 Exploratory Data Analysis**

### **5.2.1 Number of different restaurants in Bengaluru:**

Bangalore, known as the Silicon Valley of India, is a city rich in people, culture, and diversity. Along with being a major IT hub, the city is also famous for its wide variety of food and restaurants. Bangalore welcomes both local and international food chains, and many global brands open their first Indian outlets here. With such a strong food culture, Bangalore has a large number of restaurants offering different cuisines. This project aims to explore and analyse how many restaurants are present in Bengaluru and understand the city's food landscape.

Let's check it out:

## Top 50 Restaurants

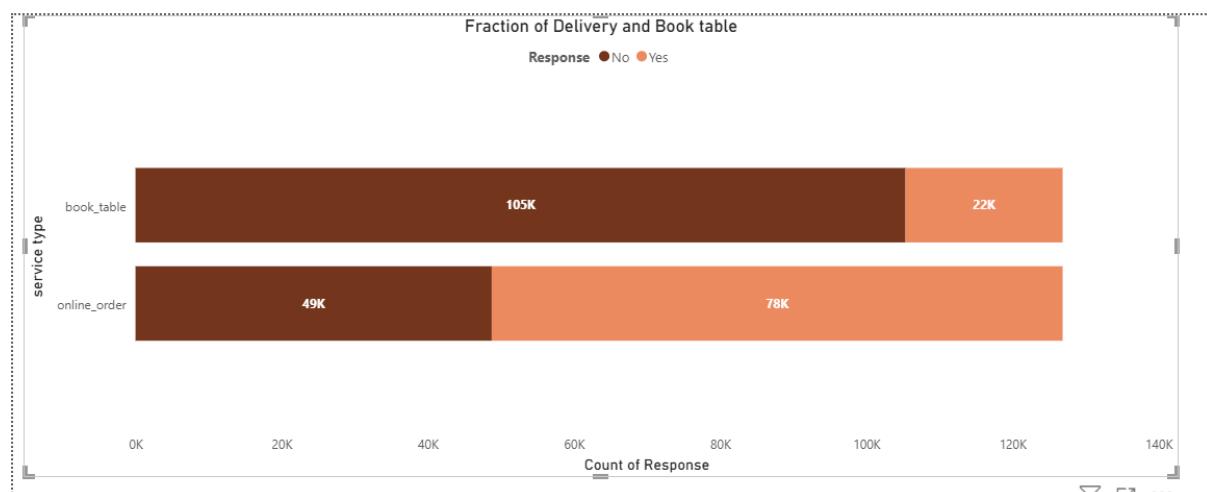


### 5.2.2 Delivery and Dine-Out restaurant

There are much more delivery restaurants in Bangalore than Dine-out.

Being an IT capital of India here people(particularly bachelors) don't have much time to prepare food for them. The best option for them seems to be mess or restaurants. Most of the working personal do not want to waste their time in preparing food so restaurants does plays a major role here. Which can also be verified with the ground reality.

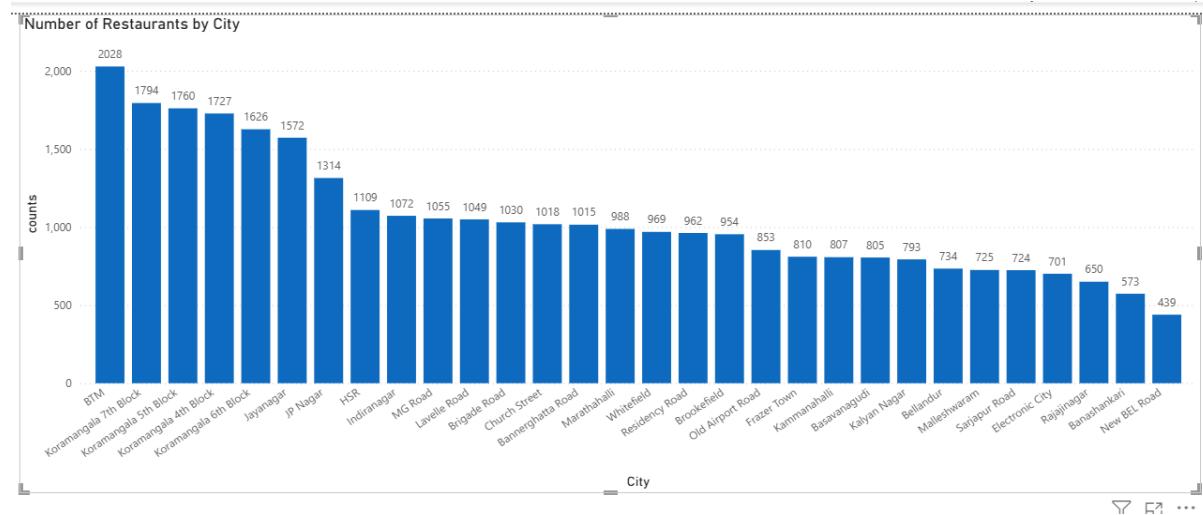
### Delivery and Dine -Out



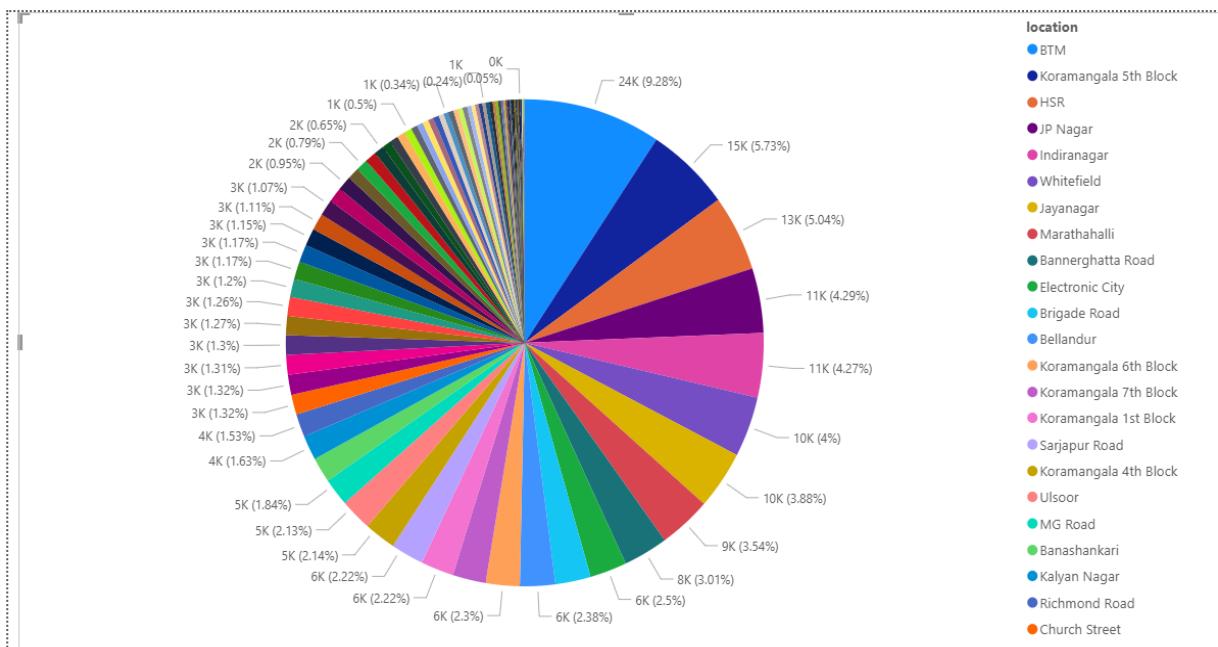
### **5.2.3 Number of restaurants in each Neighborhood**

BTM has the highest number of restaurants. But wait is that true. Verifying it with the ground truth we found that Koramangala has the highest number of restaurant but what we are forgetting is that in our dataset Koramangala is divided into 8 blocks starting from first to eighth.

## Number of Restaurants in each neighbourhood City



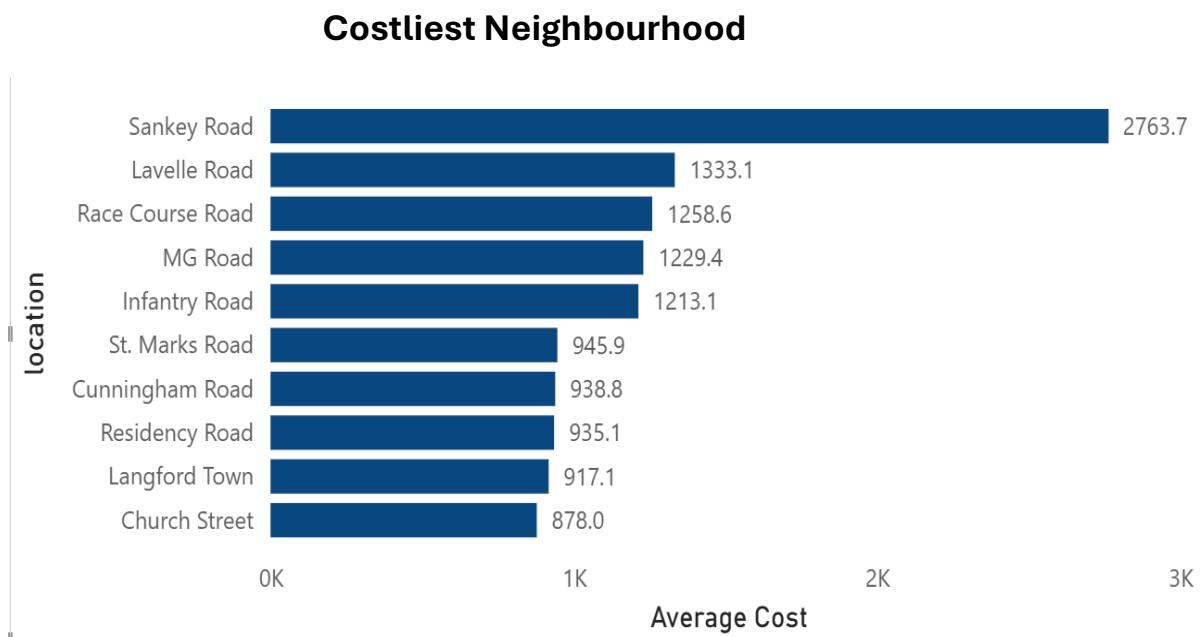
#### **5.2.4 Zomato's presence across Bangalore**



### 5.2.5 Neighbourhood by cost of food

This visual shows the average cost for two people across different neighbourhoods in Bangalore. The purpose of this analysis is to understand how food prices vary from one location to another. Since restaurant data was not evenly distributed across all neighbourhoods, only locations with a sufficient number of restaurants were considered to ensure fair comparison. The average cost was calculated using the approximate cost for two people for all restaurants within each neighbourhood.

From the visual, it can be observed that some neighbourhoods have a higher average food cost, indicating premium or upscale dining areas, while others are more affordable and budget-friendly. This analysis helps identify expensive and economical neighbourhoods based on food pricing.



It can be seen that all the costly restaurants are located in Central Bangalore, Lavelle Road, MG Road, Race Course Road. Yes, it can therefore be said from higher cost of food means Porsche area comparing it to the ground truth of Bangalore.

### 5.2.6 Grouping the neighbourhood by the type of restaurant

To find out what type of restaurant is more popular in which neighbourhood. It can be seen in the real life too one of the areas being more popular for its pub's bars, drinks, nigh life, biryani, dine out etc. It was seen that there are a greater number of Quick Bites restaurants followed by casual dining which was Quite obvious to us.

## Neighbourhood by the type of restaurant

location	Bakery	Bar	Beverage Shop	Cafe	Casual Dining	Casual Dining, Bar	Delivery	Dessert Parlor	Quick Bites	Takeaway, Delivery
BTM	284	122		656	1624	4176	160	1208	362	11736
HSR	138	50		176	966	3316	176	766	450	4262
Koramangala 5th Block	130	260		236	2334	3652	724	240	658	2690
JP Nagar	220	118		166	992	2928	394	494	458	2968
Jayanagar	202			150	1160	3040	138	48	542	3392
Indiranagar	86	118		60	1210	2686	320	786	496	1994
Whitefield	216	82		94	284	2482	274	544	280	3194
Marathahalli	172	82		60	420	2376	290	466	274	3286
Bannerghatta Road	148			62	410	1876	80	270	370	2760
Electronic City	130	112		52	218	1744	130	238	70	2606
Koramangala 1st Block	160	32			490	458	370	614	128	2712
Koramangala 6th Block	46	244		22	746	1152		380	194	2046
Bellandur	52	44		78	278	1698	144	264	124	1740
Ulsoor	140	112		84	1088	984	362	94	86	1500
Koramangala 7th Block	86			60	606	1574	274	344	294	1106
Brigade Road	68	40		64	674	1652	108		242	1566
Sarjapur Road	198			96	292	1200	178	374	166	1798
Koramangala 4th Block	110	272		26	854	1068	414	384	206	774
<b>Total</b>	<b>3906</b>	<b>3212</b>		<b>3278</b>	<b>21644</b>	<b>60616</b>	<b>7792</b>	<b>11136</b>	<b>8180</b>	<b>82556</b>
										<b>9126</b>

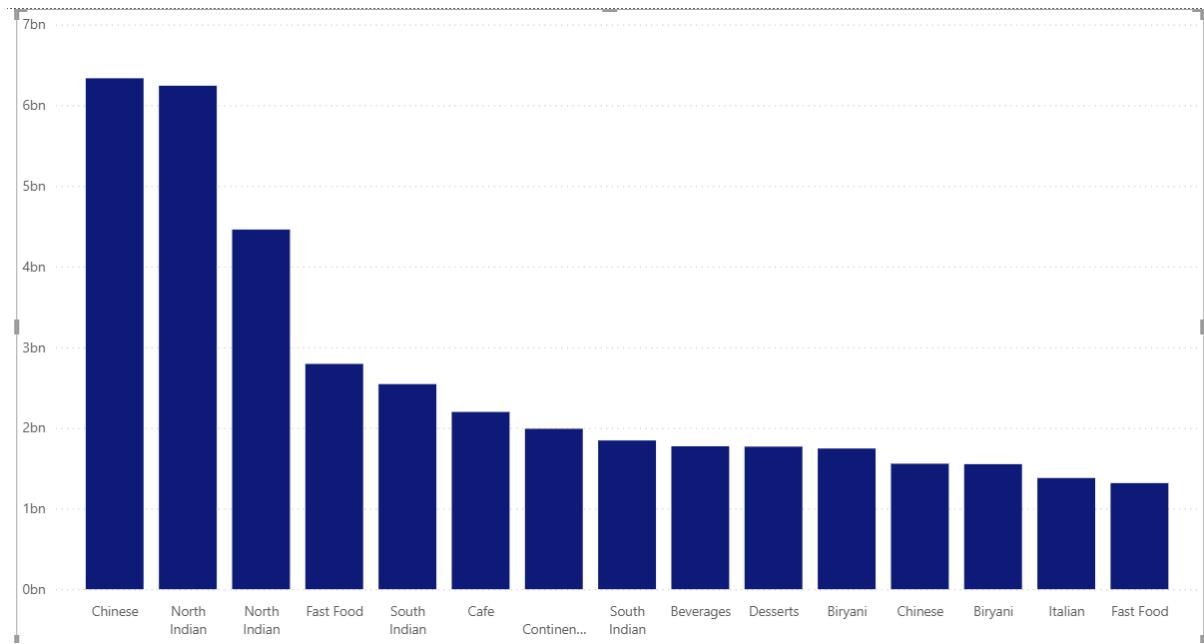
## 5.2.7 Neighbourhood by the cuisines

If we see in real life, there happens to be some place i.e. more famous for its own kind of cuisine and as it becomes famous, the number of restaurants also keeps increasing for those cuisines in that locality. So, is there any neighbourhood that is more famous for its cuisines?

City	Beverages	Chinese	Continental	Desserts	Fast Food	North Indian		South Indian	Cafe	North Indian	South Indian
						North Indian	South Indian			North Indian	South Indian
Banashankari	28924992	116207424	19283328	26387712	57849984	68506560	31969728	35521920	90327168	101998656	
Bannerghatta Road	52775424	210086784	38059200	59372352	87789888	153759168	55312704	53790336	205519680	91849536	
Basavanagudi	62924544	147669696	41103936	56835072	81700416	89312256	47193408	62924544	132953472	120267072	
Bellandur	33999552	152236800	39074112	45671040	59372352	117729792	51253056	30954816	200445120	39074112	
Brigade Road	47700864	180146880	105550848	66984192	101998656	136505664	56835072	91342080	181161792	88297344	
Brookefield	43641216	211101696	39074112	52775424	70028928	124834176	64954368	36029376	260324928	63432000	
BTM	125341632	421695936	113162688	102506112	188266176	300921408	106058304	150714432	409516992	136505664	
Church Street	44656128	192325824	112147776	67491648	105043392	147162240	57342528	92864448	189281088	94894272	
Electronic City	36029376	205012224	31462272	35521920	72058752	144624960	78148224	28417536	186236352	72058752	
Frazer Town	38566656	123311808	49730688	46178496	73073664	86774976	33999552	61909632	117729792	70536384	
HSR	66984192	222265728	74596032	65461824	107580672	164923200	63432000	68506560	228862656	73073664	
Indiranagar	70536384	184206528	97431552	71551296	91342080	142087680	62924544	97939008	197907840	62924544	
Jayanagar	101998656	299399040	74088576	81700416	137013120	196892928	83222784	115192512	289249920	127371456	
JP Nagar	79163136	264384576	55312704	73581120	113670144	193340736	70536384	83222784	254235456	120774528	
Kalyan Nagar	51250356	153251712	41103936	42118848	71043840	108595584	50238144	57849984	117729792	57849984	
Kammanahalli	50745600	154266624	43133760	42626304	78655680	106565760	46178496	61402176	114177600	62417088	
Koramangala 4th Block	109610496	350652096	117729792	95909184	153251712	239519232	94386816	148684608	324264384	96924096	
Koramangala 5th Block	98953920	369935424	108595584	87282432	150714432	251190720	98446464	120774528	346084992	101491200	
Koramangala 6th Block	98446464	330861312	106565760	90834624	142595136	220743360	87282432	139550400	306503424	88804800	
<b>Total</b>	<b>1772036352</b>	<b>6333558336</b>	<b>1988720064</b>	<b>1767469248</b>	<b>2793037824</b>	<b>445850841</b>	<b>184409510</b>	<b>2197284480</b>	<b>6241201344</b>	<b>2542354560</b>	
						6	4				

## 5.2.8 Top 15 Cuisines on Zomato

From spicy street food to global flavours, Bangalore's love for food is clearly reflected on Zomato. This chart highlights the most popular cuisines that food lovers frequently explore and order across the city. Whether it's comfort food or international delights, these cuisines truly rule Bangalore's plates!



## 5.2.9 Top Restaurants Details

This table provides a detailed view of the top restaurants listed on Zomato. It includes important information such as the restaurant name, location, rating, average cost for two people, and type of cuisine. By presenting all key details in a single table, this visual allows easy comparison between restaurants and helps identify popular and high-performing dining options across Bangalore.

name	service type	rest_type	Avg Rating per Restaurant	Sum of votes	phone	location	cuisines	Sum of approx_cost(for two people)
AB's - Absolute Barbecues	book_table	Casual Dining	4.90	44904	040 45659912	BTM	Mediterranean	11200
AB's - Absolute Barbecues	book_table	Casual Dining	4.90	44904	040 45659912	BTM	North Indian	11200
AB's - Absolute Barbecues	book_table	Casual Dining	4.90	44904	040 45659912	BTM	European	11200
AB's - Absolute Barbecues	online_order	Casual Dining	4.90	44904	040 45659912	BTM	BBQ	11200
AB's - Absolute Barbecues	online_order	Casual Dining	4.90	44904	040 45659912	BTM	Mediterranean	11200
AB's - Absolute Barbecues	online_order	Casual Dining	4.90	44904	040 45659912	BTM	North Indian	11200
AB's - Absolute Barbecues	online_order	Casual Dining	4.90	44904	040 45659912	BTM	European	11200
Belgian Waffle Factory	book_table	Dessert Parlor	4.90	20954	+91 9481511911	Brigade Road	Desserts	4800
Belgian Waffle Factory	online_order	Dessert Parlor	4.90	20954	+91 9481511911	Brigade Road	Desserts	4800
Byg Brewski Brewing Company	book_table	Microbrewery	4.90	99531	+91 8039514766	Sarjapur Road	Finger Food	9600
Byg Brewski Brewing Company	book_table	Microbrewery	4.90	99531	+91 8039514766	Sarjapur Road	Italian	9600
Byg Brewski Brewing Company	book_table	Microbrewery	4.90	99531	+91 8039514766	Sarjapur Road	North Indian	9600
Byg Brewski Brewing Company	book_table	Microbrewery	4.90	99531	+91 8039514766	Sarjapur Road	South Indian	9600
Byg Brewski Brewing Company	book_table	Microbrewery	4.90	99531	+91 8039514766	Sarjapur Road	Continental	9600
Byg Brewski Brewing Company	online_order	Microbrewery	4.90	99531	+91 8039514766	Sarjapur Road	Finger Food	9600
Byg Brewski Brewing Company	online_order	Microbrewery	4.90	99531	+91 8039514766	Sarjapur Road	Italian	9600
Byg Brewski Brewing Company	online_order	Microbrewery	4.90	99531	+91 8039514766	Sarjapur Road	North Indian	9600
Byg Brewski Brewing Company	online_order	Microbrewery	4.90	99531	+91 8039514766	Sarjapur Road	South Indian	9600

## 6. Results

The analysis shows that restaurants such as **Punjab Grill, Asia Kitchen by Mainland China, and The Belgian Factory** are among the **top-rated restaurants on Zomato**, indicating strong customer preference for well-established brands. When comparing service options, around **78,000 restaurants offer online**

**ordering**, while only **22,000 support table booking**, clearly showing that online food delivery is more popular, which reflects the busy lifestyle of Bangalore's working population. Initially, **BTM appeared to have the highest number of restaurants**, but after validating with real-world information, it was observed that **Koramangala actually has the highest concentration of restaurants**; however, in the dataset, Koramangala is divided into **eight different blocks**, which distributes the restaurant count across multiple entries and affects the overall comparison. The study also identified **Sankey Road, MG Road, and Lavelle Road** as the **costliest neighbourhoods**, with most expensive restaurants located in **Central Bangalore areas** such as Lavelle Road, MG Road, and Race Course Road, supporting the idea that **higher food costs are generally associated with posh or premium areas**. In terms of restaurant types, **Quick Bites are the most common**, followed by **Casual Dining**, which is expected in a city where convenience and affordability are highly valued. Finally, cuisine analysis revealed that **Chinese, North Indian, Fast Food, and South Indian cuisines** dominate the top 15 list, highlighting the diverse food preferences of Bangalore's population.

## 7. Discussion

This model and approach can be effectively applied in real-world scenarios if access to actual Zomato ordering data is available. While it may not be practical to describe food preferences of an entire large neighbourhood with complete accuracy, the overall taste and preference of a locality can still be understood by analysing its ordering patterns and the types of restaurants present in that area. For example, certain localities may have a higher number of non-vegetarian restaurants, leading to greater demand for cuisines such as biryani or Arabian food, whereas areas with predominantly vegetarian populations may show higher preference for vegetarian dishes. Such trends are commonly observed in real life and can be identified through data analysis as well. India's cultural diversity plays a major role in shaping these food preferences. Additionally, this data can be used to understand popular food choices, customer demographics, and residential patterns, which can help new restaurants and food businesses make informed, data-driven decisions.

## 8. Conclusion

After all the analysis we did some of the point which were worth noting that there are more number foreign food chains than Indian restaurants in Bengaluru. Empires's Restaurant has its outlet in most of the neighborhood of Bengaluru. The Indian food service market has come a long way from the early Nineties when it was dominated by unorganised players and few brands. The revolution began in 1996 with McDonalds, Pizza Hut, Dominos Pizza, Subway and Yo!China, among others, setting up shop in the country. Since then, the food services market has been continuously growing. Quick service restaurants are a mainstay of the Indian food service market, and are growing fast. Fine dining is gaining prominence too. Both multi-cuisine and single-cuisine establishments have shown tremendous growth. Gone are the days when you would go to Bangalore and only indulge in dosas or at best Kodava food from the region of Coorg. Bangalore is an inspiring mish-mash of old and new, and has plenty of options on offer, regardless of whether you are visiting only for a few days or live there.



