**Swiggy Data Analysis report: -**

This report represents the key insights of various restaurants across multiple cities of India based on Swiggy’s listed restaurants and user reviews. In this report, we have identified the areas with the highest concentration of restaurants, famous food types and top-rated restaurants. We have also examined the price trends and also explored the relationships between the restaurant’s average ratings and prices.

**Objectives: -**

* Identify the top 3 areas with the highest number of restaurants in various cities.
* Determine the most visited restaurants in these top 3 areas.
* Identify restaurants with the highest ratings (≥4.5) in these areas.
* Analyze popular food types across different cities.
* Calculate the percentage of top-rated restaurants in each city.
* Price wise distribution of restaurants in different cities.
* Investigate the relationship between restaurant price and rating.

**Analysis-1:** Identify the top 3 areas with the highest number of restaurants in various cities.

There are a total of 8668 restaurants located in different areas of 9 cities. The top 3 areas with the highest concentration of restaurants in these cities are: -

* **Ahmedabad:** - Navrangpura (131 restaurants), Vastrapur (94 restaurants), Ellisbridge (50 restaurants).
* **Surat:** - Athwa (98 restaurants), Adajan (74 restaurants), Piplod (64 restaurants).
* **Bengaluru:** - Indiranagar (130 restaurants), Koramangala (124 restaurants), Ashok Nagar (113 restaurants).
* **Chennai:** - Perambur (89 restaurant), Anna Nagar (73 restaurants), Kilpauk (58 restaurants).
* **Delhi:** - Rohini (257 restaurants), Paschim Vihar (62 restaurants), Pitam Pura (36 restaurants).
* **Hyderabad:** - Banjara Hills (113 restaurants), Himayath Nagar (92 restaurants), Kothapet & Dilsukhnagar (65 restaurants).
* **Kolkata:** - Bidhannagar (123 restaurants), Salt Lake (73 restaurant), Lake Town (69 restaurants).
* **Mumbai:** - Chembur (207 restaurants), Andheri East (135 restaurants), Kurla (129 restaurants).
* **Pune:** - Kothrud (149 restaurants), Shivajinagar (72 restaurants), Koregaon Park (69 restaurants).

**Analysis-2**: Determine the most visited restaurants in these top 3 areas.

The most visited restaurants in the top 3 areas with the highest concentration of restaurants in these cities are: -

* **Ahmedabad**: - There are a total of 21 most visited restaurants in the top 3 restaurants concentrated areas of the city. They are- R.K. Egg Eatery, Mcdonald'S, Faasos - Wraps & Rolls, Anjoy Late Night Meals, Burger King, Taco Bell, Hl Frankie, R.K.Centre, Jugaad Nights, Gwalia Sweets & Fast Food, Vittlebox, 1944 The Hocco Kitchen, Kesar Foods, Udupi Shree Darshini Restaurant, Urban Khichdi, Food On Way, Swati Snacks, Mahalaxmi Pav Bhaji, The Healthy Stove, Jassi De Parathe, Nic Natural Ice Creams.
* **Surat: -** There are a total of 9 most visited restaurants in the top 3 restaurants concentrated areas of the city. They are- Jakaas Chinese Food, Live Egg Station, Meals101, Radhe Dhokla, Mahesh Pav Bhaji, Famous Frankie, Trishiv Chinese Corner, La Pino'Z Pizza, Shree Kathiyawadi Khadki.
* **Bengaluru:** - There are a total of 51 most visited restaurants in the top 3 restaurants concentrated areas of the city. They are- New Punjabi Hotel, Chinita Real Mexican Food, Bangaliana, The Brekkie Shop - All Day Menu, Truffles, Lazeez, Corner House Ice Cream, Paris Panini - French Street Food, Beijing Bites, Smoke House Deli, Punjabi Rasoi, Fresh Bites, Nandhana Palace, Nando'S, China Pearl, Leon Grill, Royal Treat, Dice N Dine, Nagarjuna, Mcdonald'S, Pipabu, Sardarji Londonwaley, Madeena Hotel, Homely, Chai Point, No.10 Fort Cochin, Ambur Star Briyani Since 1890, Fiero! Pizzeria, Green Onion Chinese, Kerala Food Club, Punjabi Unplugged, Tibetan Mother'S Kitchen, Milano Ice Cream, Bangalore Mandarin, Breakfast Express, Gudbud, Orbis Restaurant, Call Me Chow, Samosa Party, The Pizza Bakery, Chinese Kitchen, Dock Frost'D -Ice Cream & Milkshakes, Biryani By Kilo, Onesta, Madurai Idly Shop, Sree Krishna Kafe, Mtr, Sri Krishna Sagar, Yum In My Tum, 99 Variety And Dosa & Pav Bhaji, Habibi Falafel.
* **Chennai: -** There are a total of 28 most visited restaurants in the top 3 restaurants concentrated areas of the city. They are- Kim Ling, Mainland China, Cafe Arabica, Tasty Kitchen, Subway, Grill & Barbeque, Ambur Star Briyani, Hotel Paramount, Juice Junction, Dharani Home Mades, Ramaas The Hyderabadi, Am Biryani, Ammavin Aduppankarai, Momo Sa-Khang By Kailash Kitchen, Chai Truck, Yaa Mohaideen Biryani, Reena Paul'S Kitchen (Unit Of Richnrich), Erode Amman Mess, Nithya Amirtham Sweets, Italiano, Kakada Ramprasad, Akshayam Sweets N Bakers, Fusilli Reasons, Annanagar Vaishanava'S - Thattu Idli Kadai, Millet Maagic Meal, Muthamizh A/C Restaurant, Shri Gowri Krishnaa, Bombay Halwa House.
* **Delhi: -** There are a total of 18 most visited restaurants in the top 3 restaurants concentrated areas of the city. They are- London Grill Co, Chawla Kitchen, Burger King, Behrouz Biryani, Kesar (Sainik Vihar), Culinaria By Pikwik, Domino'S Pizza, Gulab Wala, Ubq By Barbeque Nation, Sandoz Paschim Vihar, La Pino'Z Pizza, Mcdonald'S, Home Plate, Box8 - Desi Meals, Saffron Flavors, Sagar Ratna, New Durga Corner, Kwality Walls Frozen Dessert & Ice Cream Shop.
* **Hyderabad: -** There are a total of 35 most visited restaurants in the top 3 restaurants concentrated areas of the city. They are- Sarvi Restaurant, Keshav Reddy Sweets, Karachi Bakery Banjara, Shadab Go, Exotica, Dunkin Donuts, Royal Tiffin Centre, Chai Point, Istah - Shawarma And Biryani, Skypark Cafe, Homely, Starbucks Coffee, Ubq By Barbeque Nation, La Pino'Z Pizza, Feranoz, The Bowl Company, Lo! - Low Carb And Keto Foods, Cafe Niloufer Premium Lounge, Cafe Bahar Since 1973, Sauced Up, Nanking C.R - Estd 1957, Warmoven Cake & Desserts, Fishland Express, Onesta, Mandi @36, Santosh Family Dhaba, Potful - Claypot Biryanis, La Pino'Z Pizza, Millet Express, Shri Santosh Family Dhaba, House Of Dosas, Bheemas Grand, Just Parantha, Haldirams, Wahh Chaap.
* **Kolkata: -** There are a total of 26 most visited restaurants in the top 3 restaurants concentrated areas of the city. They are- Balle Balle Dhaba, Buddha Bites-Jessore Road, Chennai Xpress, The Pind Punjabi Dhaba, Momo I Am, Goutam'S - City Centre 1, Mrs. Magpie, Oudh 1590, Kathi On The Go, Kouzina Express, Pyarelal, Hatari, Bangalier Rannaghor, Kolkata@99, Dhabawale, Saptapadi, Gusto Pizza, Caravan Cafe, Shanghai Social, Sharma Snacks - Lake Town, Maa Annapurna, Agarwal'S Kitchen, Chennai Square, Urban Masala, Sai Jalpan Junction-Lake Town, Gupta Tea.
* **Mumbai:** - There are a total of 40 most visited restaurants in the top 3 restaurants concentrated areas of the city. They are- Food Rush, Singh Saab, Punjab Depot, Deluxe Restaurant, Zaika, Cafe Udipi, Kesas, Food Villa, Pizza Caprina, Indigo Grill, Freshmenu, Trupti Farsan, Sahara Hotel - Kurla, Nothing But Chicken, Freshmenu, Raj Restaurant, Sahara Restaurant, Oye Kiddan, Chembur Gymkhana (Phase 1), Wakka Makka Chinese, Green Cravings, Foodin, Bombay Tandoori, Cafe Marol, Samrat Hotel, Baba Falooda (Kurla), Kerala Palace, Mad Momos, Cafe Quba, Veg Sutra, Maharana Kamath, Ayyappan Pure Veg, Narayan Sandwich House, Amar Juice Centre, Vig, Amar Juice Centre, Sadguru Veg Diet-(Bmc), Mamledar Misal, Dessert Cloud - Chembur, Manis Café.
* **Pune: -** There are a total of 23 most visited restaurants in the top 3 restaurants concentrated areas of the city. They are- Uncle'S Chinese, Golden Dragon, Mcdonald'S, Hotel Durga, Barometer, Kinara'S Maratha Darbar, Burger King, Green Food, Jayesh A1 Sandwiches, Oye Kiddan, Bebe Di Rasoi - Punjabi, Maskawala & Co., Ishan Pure Veg, The Doner Company, Madurai Idly Shop, Fried Chicken Destination, Chaitanya Paranthas, Mathura Pure Veg, Palavi, Sheetal Restaurant, Mithas, Shri Swami Samartha Pure Veg, Singh Saab.

**Analysis-3:** Identify restaurants with the highest ratings (≥4.5) in these areas.

Restaurants with the highest ratings in the top 3 areas with the highest concentration of restaurants in these cities are: -

* **Ahmedabad:** - There are a total of 18 restaurants with the highest ratings in the top 3 restaurants concentrated areas of the city. They are - D'Tallii Egg, The Blue Oven, Caffix The Tech Cafe, The South Spot, Wakka Makka, Hot Lee Chinese, Ching Chong Chinese, Wok On Fire - Indo Chinese - Pan Asian, Natural Ice Cream, Cheers, Sasuji, Treat, Swati Snacks, Gajanand Pauva House, Apsara Ice Creams, Nic Natural Ice Creams, Keventers Ice Cream, Chup Chaap.
* **Surat:** - There are a total of 13 restaurants with the highest ratings in the top 3 restaurants concentrated areas of the city. They are- Sobis Diet Farm, Starbucks Coffee, Slurrp, Twisted Cake, Sizzling Salsa, Kudrati Kahumbo, Binayak Fast Food, The Belgian Waffle Co., Surtea, Kshitij Restaurant, 99 Pancakes, Juice Factory, Cake It Out.
* **Bengaluru:** - There are a total of 50 restaurants with the highest ratings in the top 3 restaurants concentrated areas of the city. They are- Treat, Chinita Real Mexican Food, Art Of Delight, Truffles, Corner House Ice Cream, Smoke House Deli, China Pearl, Happy Belly Bakes- Cakes And Desserts, Brik Oven, Khawa Karpo, Amadora Gourmet Ice Cream & Sorbet, Chai Point, Nasi And Mee, Chianti, Frosty Crumble, Khichdi Experiment, Milano Ice Cream, Vegan Kitchen - By Infinitea, Gudbud, Sikandar Rolls, Cantan, Xoox Brewmill, Sanchez, Samosa Party, Mad Mex, A1 Chips, The Congee Concept, Toscano'S Crafted Cakes And Desserts, Kanpur Ki Kachauri, Dr.Gelato, Artinci - Indulge Guilt Free!, Salad Matters, Cheese Meets Bread, Ath - All Things Healthy!, Dairy Day Ice Creams, Subbudus The Snackstop ( Eswaris Homemade Snacks ), The Dessert Corner, Magnolia Bakery, Tricky Shakes, Sree Krishna Kafe, Juice Junction, Apsara Ice Creams, Natural Ice Cream, Ibaco, Sri Krishna Sweets, Burma Burma, Sri Udupi Vaibhav, Khamma Ghani Sa, Hokart - Soori Chaats, Keventers Ice Creamery
* **Chennai:** - There are a total of 23 restaurants with the highest ratings in the top 3 restaurants concentrated areas of the city. They are- Asian Station, Juice Junction, Chai Kings, Momo Sa-Khang By Kailash Kitchen, Ram'S Tea House, Chennai Classic Cakes, Pastry Maniaa, The Living Room, Metro Cakes, Chinese Wox, The New Punjab Club, Bombaysthan, Nithya Amirtham Sweets, Kakada Ramprasad, The Grand Sweets And Snacks - Amirtham Restaurant, Fusilli Reasons, Milkie Mustache, Millet Maagic Meal, The Cheese Cafe, Shri Gowri Krishnaa, Mishra Pan Shop, Ramas Cafe, Afresh.
* **Delhi:** - There are a total of 13 restaurants with the highest ratings in the top 3 restaurants concentrated areas of the city. They are- China Town Kathi Rolls, Pizza Paradise By Vhc, Mosaic By Crowne Plaza Rohini, Shake'N Food, Kakas Food Point, The Sugar Free Keto Kafe - By Artinci, Havmor Havfunn Ice Cream, Yamu'S Panchayat, Lakhan Pan, Vaishno Punjabi Dhaba, Nic Natural Ice Creams, Kwality Walls Frozen Dessert & Ice Cream Shop, Keventers Ice Creamery.
* **Hyderabad:** - There are a total of 11 restaurants with the highest ratings in the top 3 restaurants concentrated areas of the city. They are- Exotica, Cafe Niloufer Premium Lounge, Five Star And Koli Hut, Swiss Castle, Wallonia Waffle Co., Splurge - Thickshakes And Milkshakes, The Liege Waffles, The Dessert Bakers, Habibi Hungry, Zorro - Milkshakes And Thickshakes, Govi'S Organic Foods.
* **Kolkata:** - There are a total of 15 restaurants with the highest ratings in the top 3 restaurants concentrated areas of the city. They are- First Innings - The Stadel Hotel, Courting Coffees, Xspicy - Indismart Hotel, Hatari, Express By Ab'S, Dieto, The Samosa Lab, Rita'S Cafe, Shivohan Kitchen, Qfc - Quality Fried Chicken, Berlin Burgers, Cremecup.In, Chennai Square, 7Th Heaven, Hunger Twister.
* **Mumbai:** - There are a total of 36 restaurants with the highest ratings in the top 3 restaurants concentrated areas of the city. They are- Hotel Grand Central, Ching Asia, Afra Mughlai Darbar, Javed Bhai'S, Only Roti'S, Poetry By Love & Cheesecake, Bokchoy Bowl, Noto - Healthy Ice Cream, Nosh & Beyond, Tata Q Quick Kitchen, Kwality Walls Frozen Dessert And Ice Cream Shop, Jeden The Cake Expert, The Blue Tiffin, Ivy Restaurant, Yogi'S Kitchen, Ministry Of Curry, Artinci - Indulge Guilt Free!, Get In My Belly, The Asian Pavilion, Modern Khichadi, The Sugar Free Keto Kafe - By Artinci, Montain Kitchen, Nivala Apka Apna, The Asian Place, Havmor Havfunn, Sind Pani Puri House, Steamy Mugs, Sadguru Veg Diet-(Bmc), Sweet Bengal, Jeevan Boarding House, Amul Ice Cream Parlour, Giani'S, Sweet Bengal, Manis Cafe, Bangalore Iyangar S Bakery, The Juice Box.
* **Pune:** - There are a total of 31 restaurants with the highest ratings in the top 3 restaurants concentrated areas of the city. They are- Mirch Masala Resto Bar, Sassy Teaspoon, Hotel Durga, Buddha Paradise, Barometer, Lean Life Bistro, 7Th Heaven Cake Shop, Lassi Wassi, Chafa Cafe And Studio, Yonies Pizza, The Cheesecake Pops, Huber & Holly, Hotel Subhadraa, Dinewise, Nipr Bar, Drunken Monkey, Asia Kitchen By Mainland China, Haka, Rocket Momos, Crazy Momos, Pimlico Kothrud, Origins, Malaka Spice, Papacream, Shree Krishna Juice Bar, Natural Ice Cream, Modern Cakes, Frozen Bottle, Mithas, Gulp, Khichdi Express.

**Analysis-4**: Analyze popular food types across different cities.

The most popular food types across different cities as per the data are-

* **Ahmedabad:** - Indian.
* **Surat:** - Fast Food.
* **Bengaluru:** - Desserts.
* **Chennai:** - Chinese.
* **Delhi:** - Chinese.
* **Hyderabad:** - Chinese.
* **Kolkata:** - Chinese.
* **Mumbai:** - Chinese.
* **Pune:** - Chinese.

**Analysis-5**: Calculate the percentage of top-rated restaurants in each city.

The percentage of the top-rated restaurants (considering that the average rating of the restaurants is 4.5 or higher) in each city are: -

* In the city of **Ahmedabad** only 5.18% of the restaurants are being considered as top-rated restaurants.
* In the city of **Surat** only 6.65% of the restaurants are being considered as top-rated restaurants.
* In the city of **Bengaluru** only 9.93% of the restaurants are being considered as top-rated restaurants.
* In the city of **Chennai** only 10.87% of the restaurants are being considered as top-rated restaurants.
* In the city of **Delhi** only 3.43% of the restaurants are being considered as top-rated restaurants.
* In the city of **Hyderabad** only 4.10% of the restaurants are being considered as top-rated restaurants.
* In the city of **Kolkata** only 9.43% of the restaurants are being considered as top-rated restaurants.
* In the city of **Mumbai** only 8.07% of the restaurants are being considered as top-rated restaurants.
* In the city of **Pune** only 7.52% of the restaurants are being considered as top-rated restaurants.

**Analysis-7:** Price wise distribution of restaurants in different cities.

Considering the price-wise distribution, the **High Price Range is between Rs 600 and Rs 2500**, the **Medium Price Range is between Rs 300 and Rs 599**, and the **Low Price Range is below Rs 300**. The distribution of restaurants across different price categories is as follows:

* **Ahmedabad: -** Out of the total of 713 restaurants in the city, 64 restaurants fall under the High Price Range, 299 restaurants fall under the Medium Price Range, and 350 restaurants fall under the Low Price Range.
* **Surat: -** Out of the total of 511 restaurants in the city, 12 restaurants fall under the High Price Range, 202 restaurants fall under the Medium Price Range, and 297 restaurants fall under the Low Price Range.
* **Bengaluru: -** Out of the total of 946 restaurants in the city, 152 restaurants fall under the High Price Range, 397 restaurants fall under the Medium Price Range, and 397 restaurants fall under the Low Price Range.
* **Chennai:** - Out of the total of 1103 restaurants in the city, 135 restaurants fall under the High Price Range, 474 restaurants fall under the Medium Price Range, and 494 restaurants fall under the Low Price Range.
* **Delhi: -** Out of the total of 611 restaurants in the city, 53 restaurants fall under the High Price Range, 304 restaurants fall under the Medium Price Range, and 254 restaurants fall under the Low Price Range.
* **Hyderabad: -** Out of the total of 1073 restaurants in the city, 67 restaurants fall under the High Price Range, 419 restaurants fall under the Medium Price Range, and 587 restaurants fall under the Low Price Range.
* **Kolkata: -** Out of the total of 1346 restaurants in the city, 67 restaurants fall under the High Price Range, 419 restaurants fall under the Medium Price Range, and 587 restaurants fall under the Low Price Range.
* **Mumbai: -** Out of the total of 1276 restaurants in the city, 193 restaurants fall under the High Price Range, 661 restaurants fall under the Medium Price Range, and 422 restaurants fall under the Low Price Range.
* **Pune:** - Out of the total of 1089 restaurants in the city, 116 restaurants fall under the High Price Range, 527 restaurants fall under the Medium Price Range, and 446 restaurants fall under the Low Price Range.

**Analysis-6**: Investigate the relationship between restaurant price and rating.

While analysing the relationship between restaurant prices and average ratings, we found out that the restaurant prices does impact the average ratings but the impact is very weak. Meaning that when the price increases, there is a slight tendency for the average rating to increase as well. It is because the other factors are also important to be considered to determine the average rating.

Recommendations: -

1. As the top 3 areas of all the 9 cities of India are famous for combination of factors like central location, variety in food types, and affordability. Swiggy could deploy more Delivery Agents in these areas of the cities so that they are able handle a greater number of orders coming from these areas. After doing so, the waiting time of the customers in getting the delivery will decrease and the customer will prefer to make most of the orders from these areas through Swiggy which will give Swiggy a good business.
2. The restaurants owners of the low rated restaurants should focus on increasing the quality of their restaurants which will improve customer experience leading to good rating. It is because as per our analysis we can see that the impact of Price is very less over the rating, so concentrating on increasing the quality will help to get good rating.
3. Swiggy can suggest the restaurant owners who are serving the popular foods types in the city to keep offers on these types of foods which will help in promotion of the food and restaurant and will attract more customers. This will give a boost to the sales of these restaurants through Swiggy and doing this the Swiggy Delivery Agent and Swiggy can earn good commission.