

1. General Dataset Overview

- **Number of Rows:** 17,304
- **Number of Columns:** 22
- **Dataset Size:** 2.9 MB
- **Data Types:**
 - **Numeric:** 7 columns (e.g., Average Cost for two, Votes, Price range)
 - **Categorical:** 15 columns (e.g., City, Cuisines, Rating text)

2. Key Columns and Summary Statistics

- **Restaurant Information:**
 - **Restaurant Name:** 6,604 unique names (e.g., "Cafe Coffee Day" is most frequent with 166 appearances).
 - **City:** Data spans 43 cities, with "New Delhi" being the most represented (10,946 entries).
- **Cuisines Offered:**
 - 1,392 unique cuisine types (e.g., "North Indian" is the most popular, appearing 1,872 times).
- **Cost and Pricing:**
 - **Average Cost for Two:**
 - Range: ₹0 - ₹8,000
 - Mean: ₹623
 - Median: ₹450
 - **Price Range:** Categorized into 4 levels:
 - Level 1: Economical
 - Level 4: Expensive
 - Majority fall under Level 1 (low-cost options).
- **Ratings and Reviews:**
 - **Aggregate Rating:**
 - Range: 0 - 4.9
 - Mean: 2.52

- Most common rating: 3.5-4.2 (categorized as "Good" and "Very Good").
- **Votes:** Range from 0 to 10,934 with an average of 137 votes per restaurant.

3. Missing Data

No missing values were found across all columns.

4. Interesting Observations

- **City Representation:** New Delhi dominates with 63% of entries.
- **Table Booking and Online Delivery:**
 - Only 13% of restaurants offer table booking.
 - 28% of restaurants offer online delivery.
- **Currency:** Data is exclusively in Indian Rupees (Rs).

5. Key Relationships

- **Cost vs. Rating:** Higher-cost restaurants (Price Range 3 & 4) tend to have higher ratings.
- **Votes vs. Rating:** A positive correlation is observed; restaurants with more votes typically have better ratings.
- **City vs. Cuisine:** Some cuisines are region-specific, e.g., "Rajasthani" in Jaipur.

6. Common Orders

The most frequent order items include:

- Dal Makhani
- Biryani
- Rajma Chawal
- Assorted Platters

7. Outliers and Anomalies

- Restaurants with zero Average Cost for Two exist and may indicate data entry errors.
- Extremely high Votes (above 10,000) could signify exceptional popularity or promotional activities.

8. Recommendations for Further Analysis

- **Clustering by Cuisine:** Identify cuisine preferences by city to highlight regional trends.
- **Cost vs. Popularity:** Explore how pricing affects customer votes and ratings.
- **Customer Behavior:** Analyze relationships between delivery availability and aggregate ratings.