



Restaurant Data Analysis

Key Insights and Findings

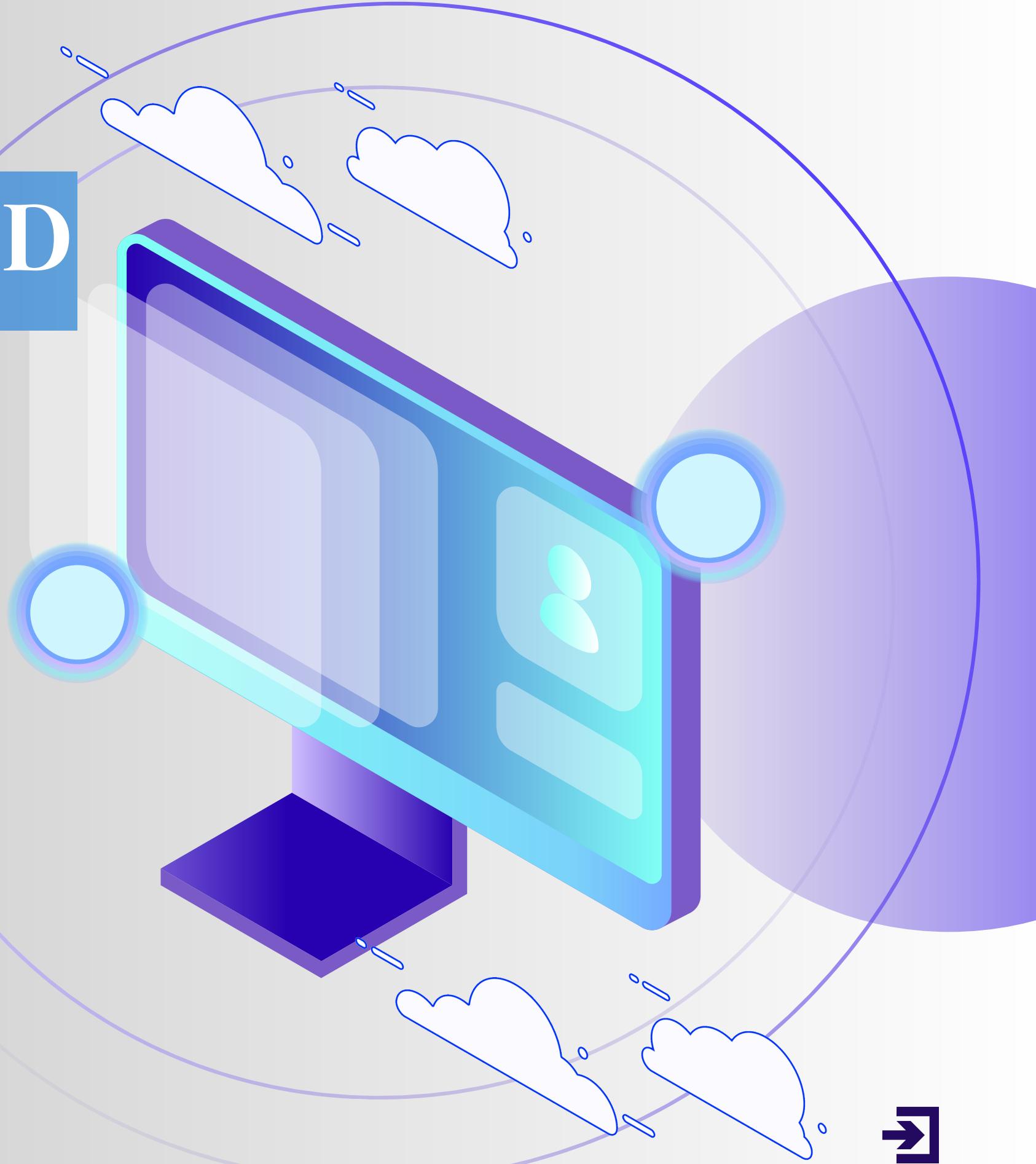
Astha Chourasiya





TOOLS AND LIBRARIES USED

1. Pandas
 - Data manipulation and analysis
2. Matplotlib
 - Data visualization
3. NumPy
 - Numerical operations
4. Seaborn
 - Statistical data visualization
5. Geopandas (for geographical analysis)
 - Geospatial data manipulation
6. Folium, contextily (for geographical analysis)
 - Interactive maps



What We Want to Know with This Analysis

- Popular Cuisines: Identify top cuisines and their prevalence.
- City Insights: Determine cities with most restaurants and highest average ratings.
- Price Range Distribution: Analyze restaurant price categories.
- Online Delivery Impact: Compare ratings with and without online delivery.
- Rating Distribution: Examine common rating ranges and average votes.
- Cuisine Combinations: Identify popular cuisine pairs and their ratings.
- Geographical Patterns: Map restaurant locations and identify clusters.
- Restaurant Chains: Evaluate ratings and popularity of chains.
- Votes Analysis: Correlate votes with ratings to find trends.



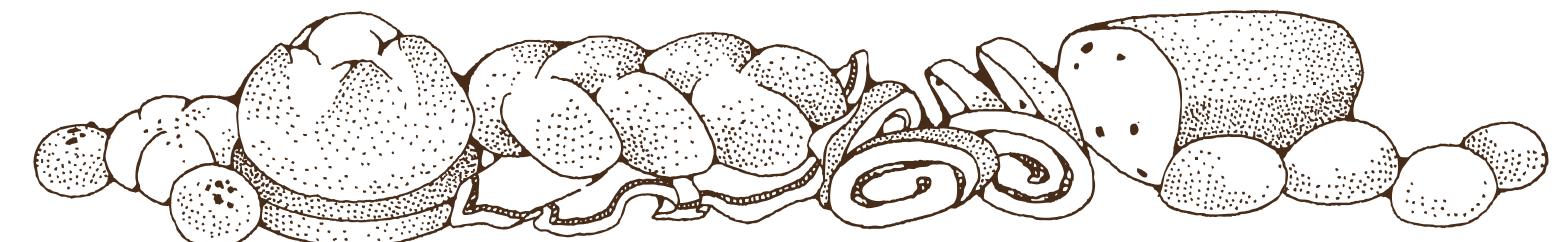
Dataset Overview



Basic Information:

- Number of records: 9551 row & 21 columns
- Key attributes: Restaurant Name, City, Cuisines, Average Cost for Two, Price Range, Aggregate Rating, Votes

Visual: Snapshot of dataset columns



Main Objectives of the Analysis =



- Identify popular cuisines
- City-specific insights
- Price range distribution
- Online delivery analysis
- Restaurant ratings and votes analysis
- Cuisine combinations
- Geographical analysis
- Restaurant chains

[Read More](#)

Geographic and Culinary Diversity

Geographic Spread:

- Multiple cities represented
- Longitude and latitude coordinates for geographical analysis

Culinary Diversity:

- Variety of cuisine types

Visual: Map showing restaurant locations



Customer Interaction and Ratings

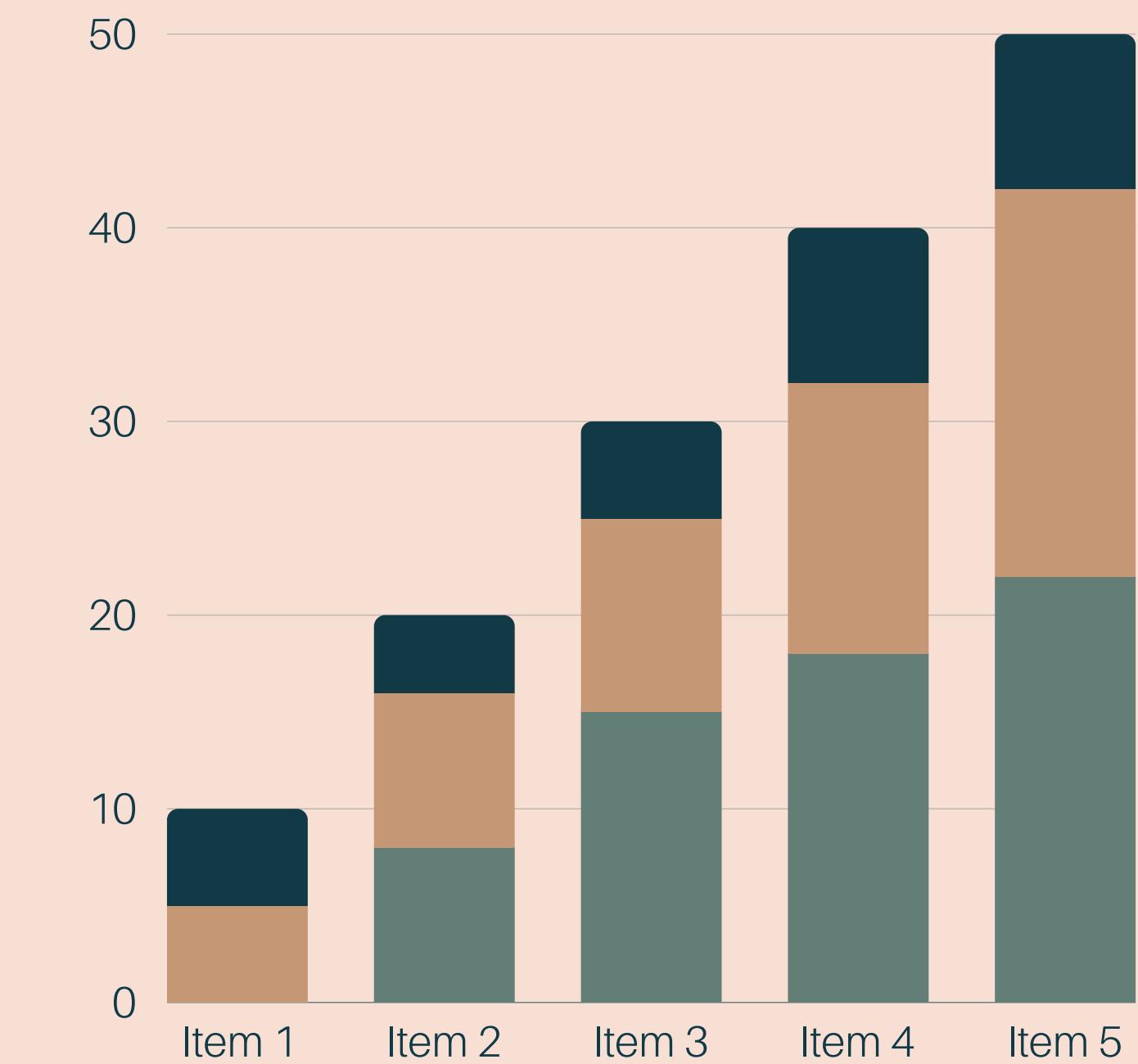
Customer Interaction:

- Number of votes
- Aggregate ratings

Service Offerings:

- Online delivery
- Table booking

Visual: Sample distribution of votes and ratings



Top Cuisines

Most Common Cuisines:

- North Indian, Chinese, Fast Food

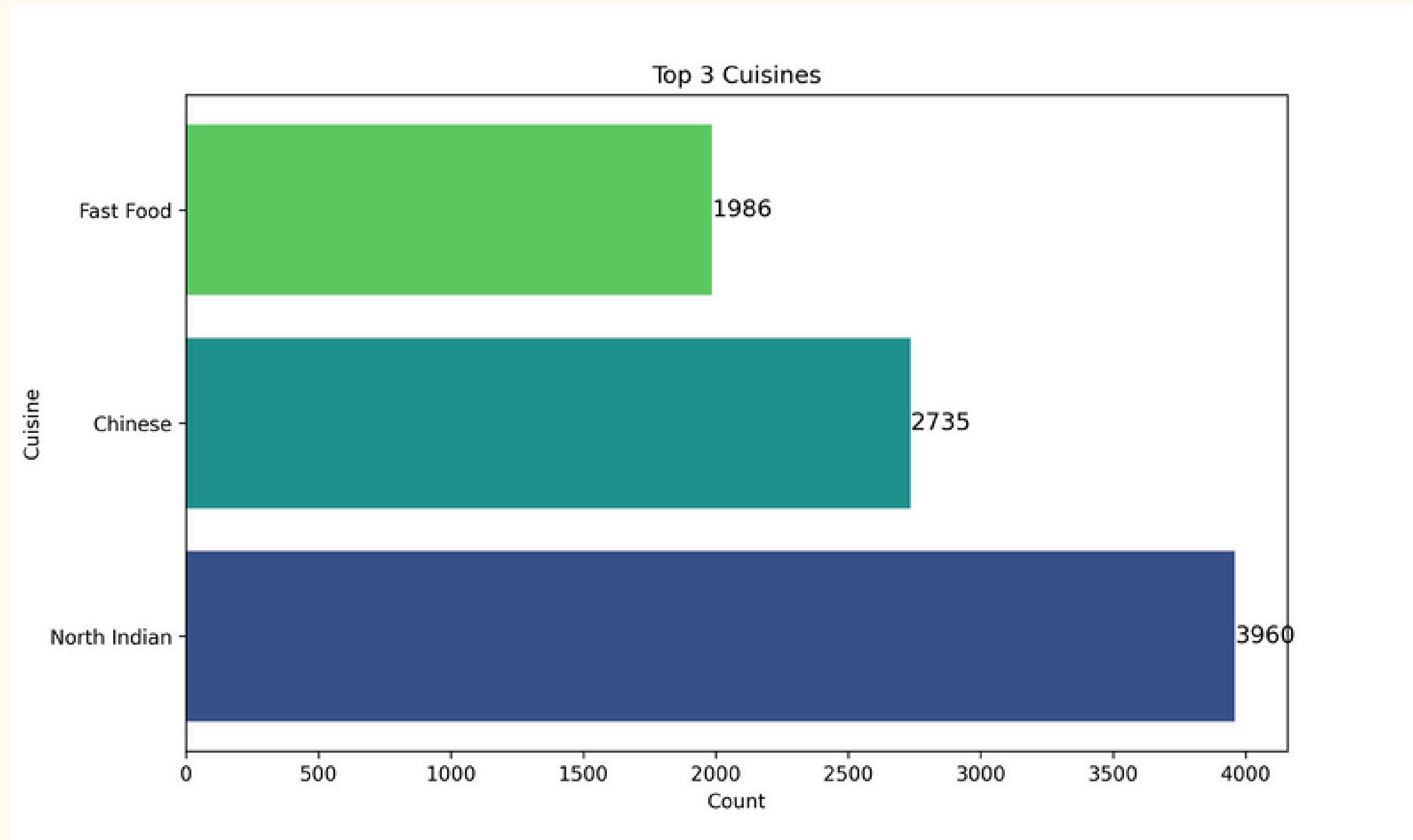
Percentage of Restaurants Serving Top Cuisines:

- North Indian: 28.7%
- Chinese: 14.6%
- Fast Food: 11.8%

Read More



Visual: Bar chart showing top three cuisines



City Analysis

City with Most Restaurants: New Delhi

Average Rating by City:

- New Delhi: 3.9
- Gurgaon: 3.8
- Noida: 3.7

**City with Highest Average Rating:
New Delhi**



Statistics

3.9

New Delhi

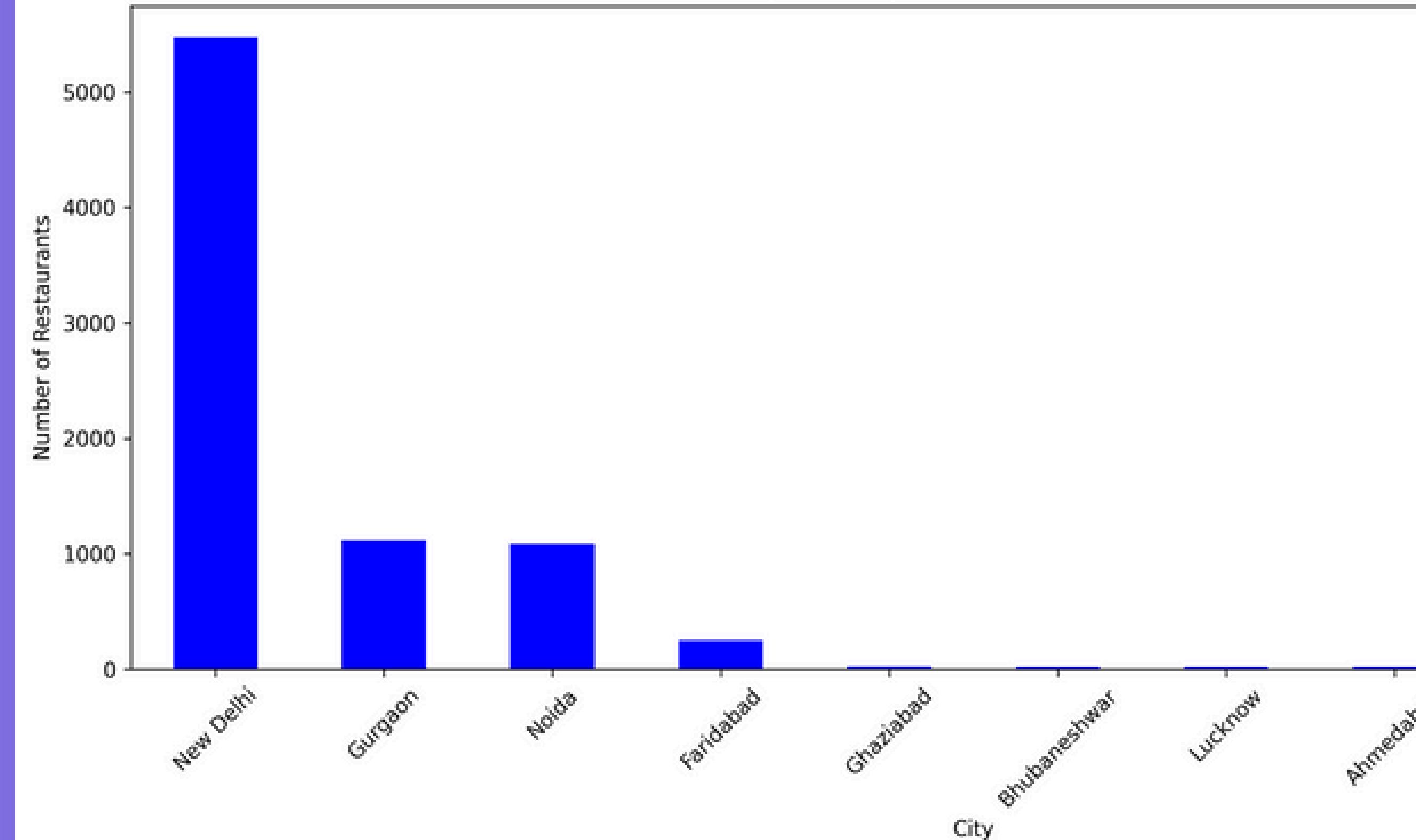
3.8

Gurgaon

3.7

Noida

Top Cities by Number of Restaurants

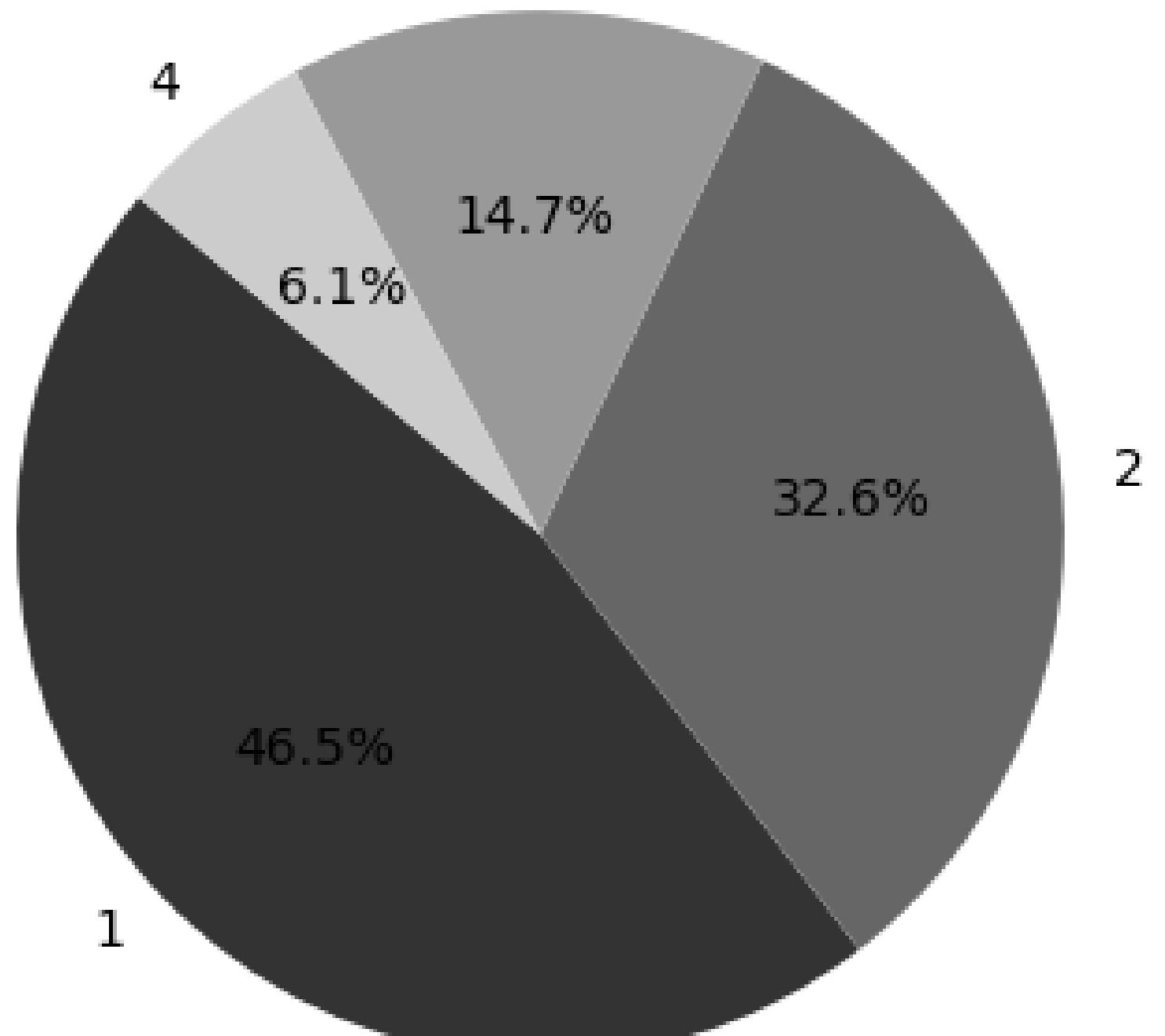


Price Range Distribution

Percentage of Restaurants by Price Range:

- 46.53%
- 32.59%
- 14.74%
- 6.14%

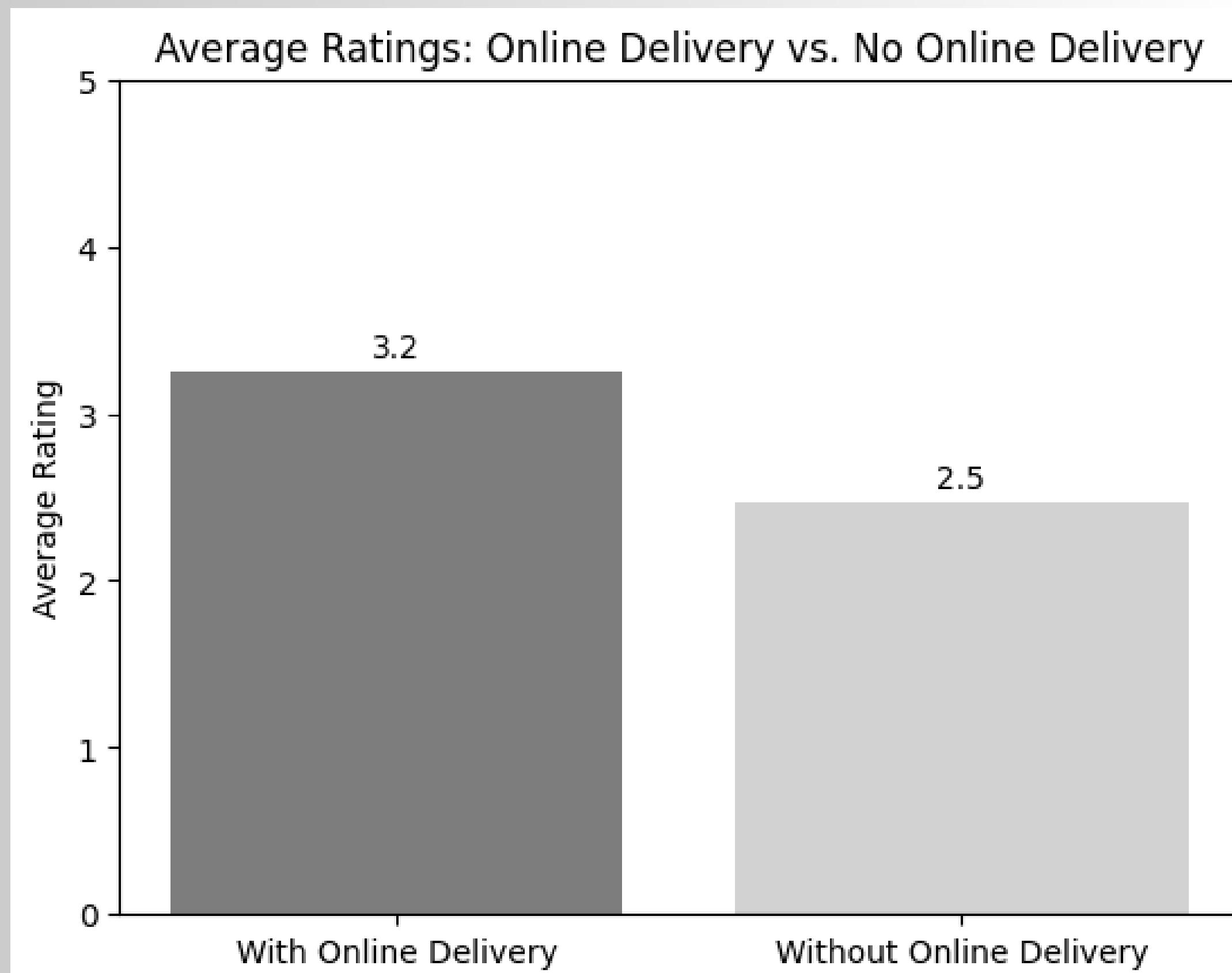
Price Range Percentage



Online Delivery

Online Delivery Statistics:

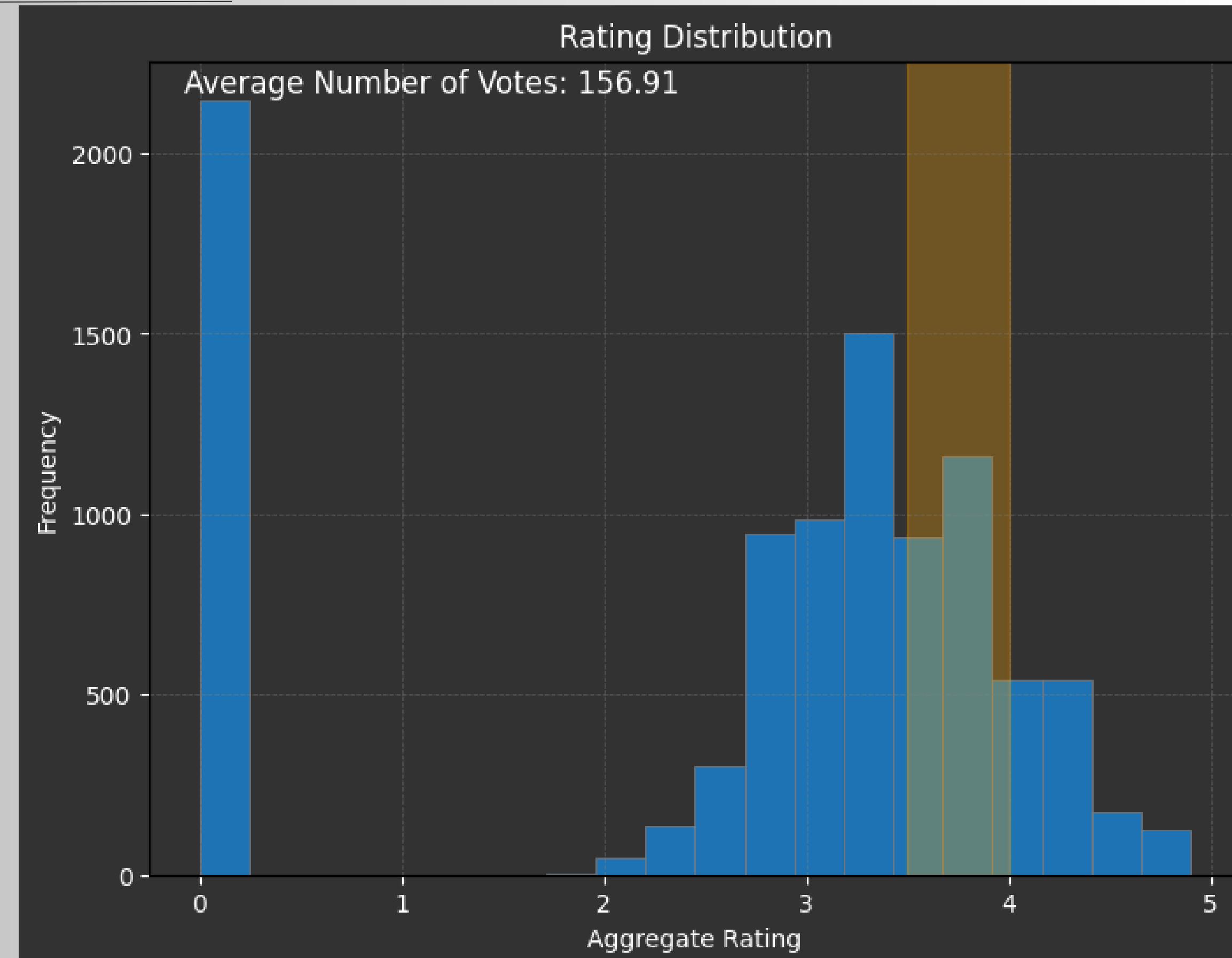
- Restaurants Offering Online Delivery: 52.3%
- Average Rating with Online Delivery: 3.2
- Average Rating without Online Delivery: 2.5



RESTAURANT RATINGS

Rating Distribution:

- Most Common Rating Range: 3.5 - 4.0
- Average Number of Votes: 156





Cuisine Combinations

Common Cuisine Combinations:

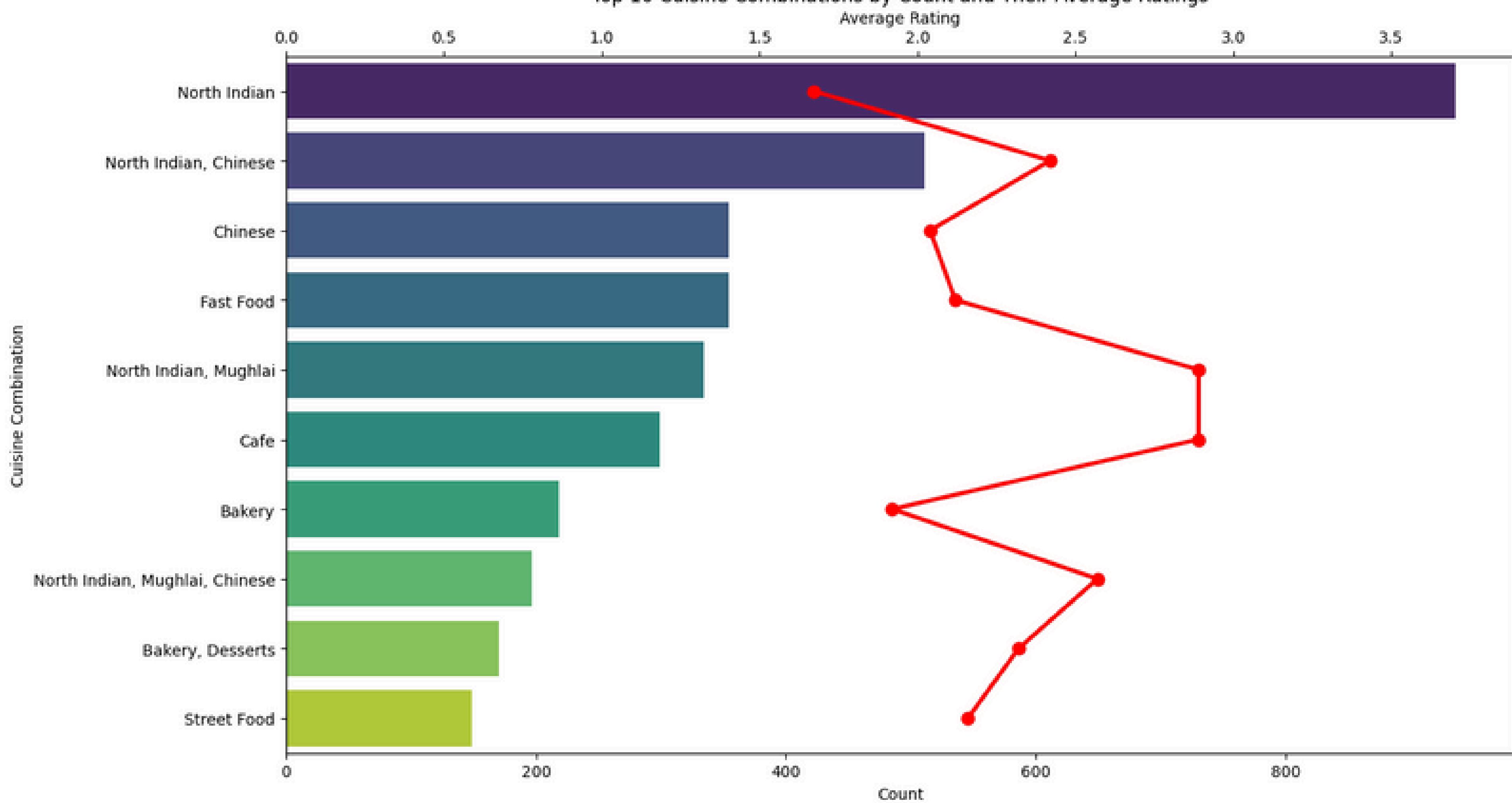
- North Indian, Chinese
- Bakery, Desserts
- North Indian, Mughlai

Cuisine Combinations with Highest Ratings:

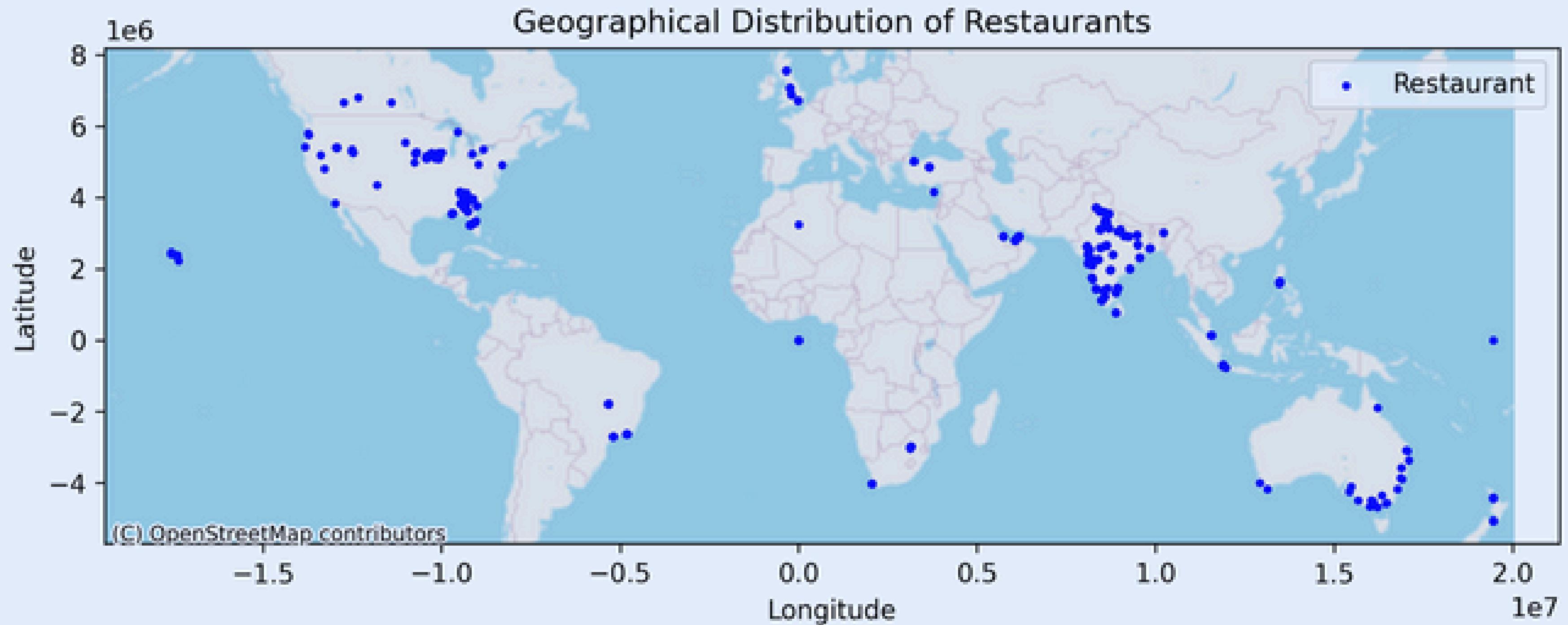
- North Indian, Chinese: 2.42
- Bakery, Desserts : 2.32
- North Indian, Mughlai: 2.89



Top 10 Cuisine Combinations by Count and Their Average Ratings



Geographical Analysis



Restaurant Chains

- Downing Street: Average Rating 4.0, Total Votes 670
- B Baker Street: Average Rating 3.3, Total Votes 215
- Parkstreet Lane Average Rating 3.0, Total Votes 31

Votes Analysis

- Highest and Lowest Votes:
- Highest Votes: Toit (10934 votes)
- Lowest Votes: Cantinho da Gula (0 vote)



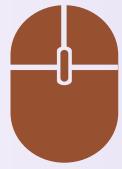
Conclusion

This analysis provided valuable insights into the restaurant dataset. We identified popular cuisines, city-specific trends, price range distributions, and the impact of online delivery on ratings. Additionally, we explored geographical patterns, identified popular restaurant chains, and analyzed the correlation between votes and ratings. These findings can help in making informed business decisions and understanding customer preferences in the restaurant industry.

THANKYOU

QUESTIONS AND ANSWERS

Q&A SESSION: OPEN FLOOR FOR QUESTIONS AND
DISCUSSION



[https://www.linkedin.com/in/
aasthachourasiya](https://www.linkedin.com/in/aasthachourasiya)



work.withaasthaa@gmail.com



9691995072