



Problem Statement:-

A new Food Entrepreneur, let's call them "Chef Innovator," is planning to launch a new venture in the highly competitive HORECA space. They have access to a rich Zomato dataset (which you are analyzing) and need to define their strategy based on data-driven insights to maximize their chances of success and profitability. Your role, as a Data Scientist, is to provide the critical market intelligence by analyzing the existing landscape. Chef Innovator is primarily concerned with three high-level decisions:

Category (Cuisine)

Market (City/Location)

Channel (Dining vs. Delivery)





Project Outcomes Summary

Strategic Area 1: Category Selection (Cuisine)

Tasks:

- 1. Performance vs. Popularity – Compared demand (votes) and quality (ratings) across cuisines.**
- 2. Market Saturation – Analyzed restaurant count vs. average price and rating to find less crowded cuisines.**
- 3. Price Point Analysis – Evaluated price per vote and log price distribution for top cuisines.**

Strategic Area 2: Market Selection (City & Place)

Tasks:

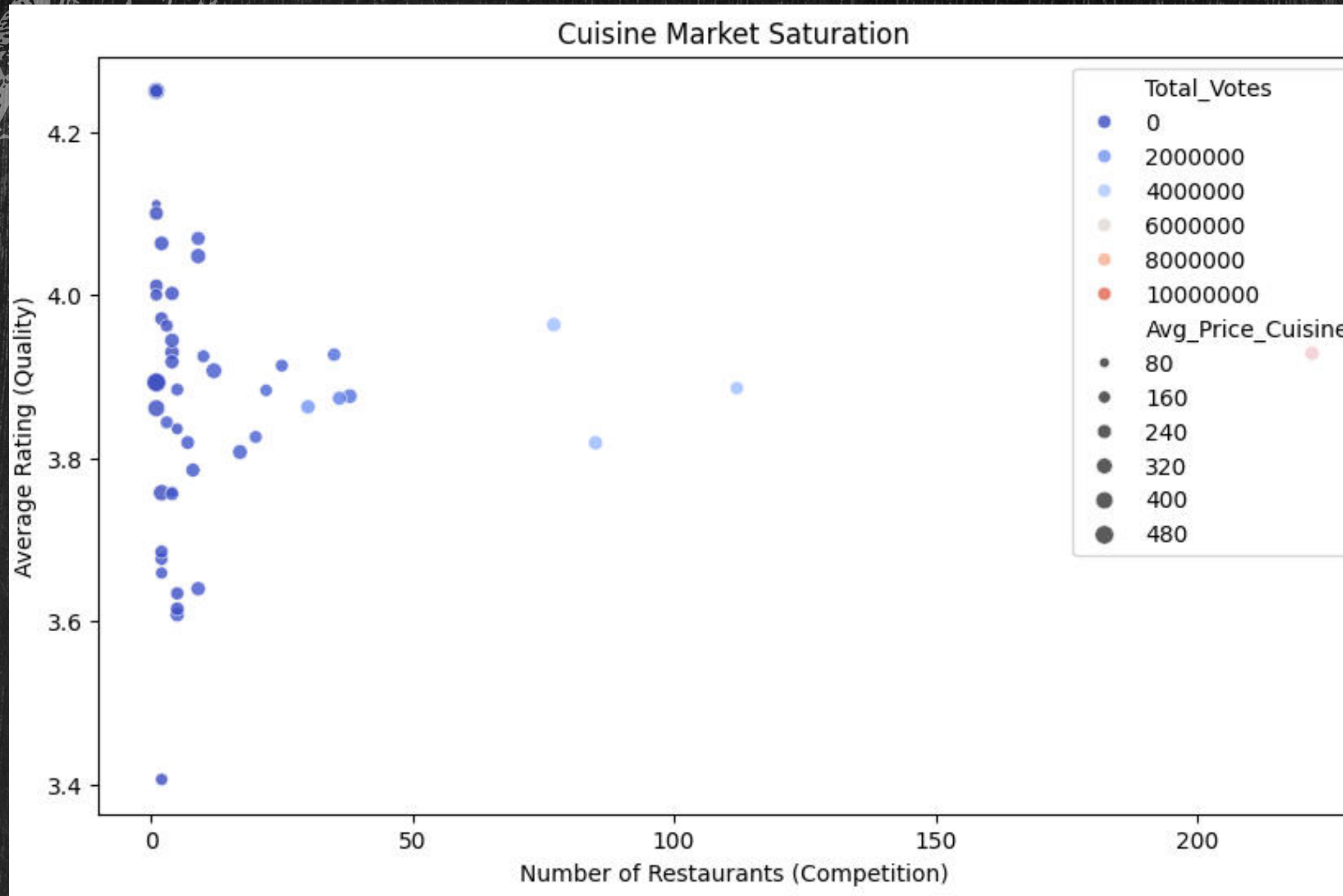
- 1. City-Level Viability – Calculated average ratings and total votes per city to assess overall market health.**
- 2. Micro-Market Analysis – Compared restaurant density and popularity across neighborhoods in top cities.**
- 3. Risk Assessment – Measured percentage of highly rated and expensive restaurants to assess competition intensity.**

Strategic Area 3: Channel Selection (Dining vs Delivery)

Tasks:

- 1. Channel Disparity – Correlation analysis between dining and delivery ratings/votes to identify performance gap.**
- 2. Optimal Channel Focus – Visual comparison of ratings and votes to determine best service model (Delivery-first or Dining-first).**

Market Saturation



1) Most cuisines have low competition
The majority of cuisines are clustered near the left side (0–20 restaurants).

This means most cuisine types are served by few restaurants → low saturation.

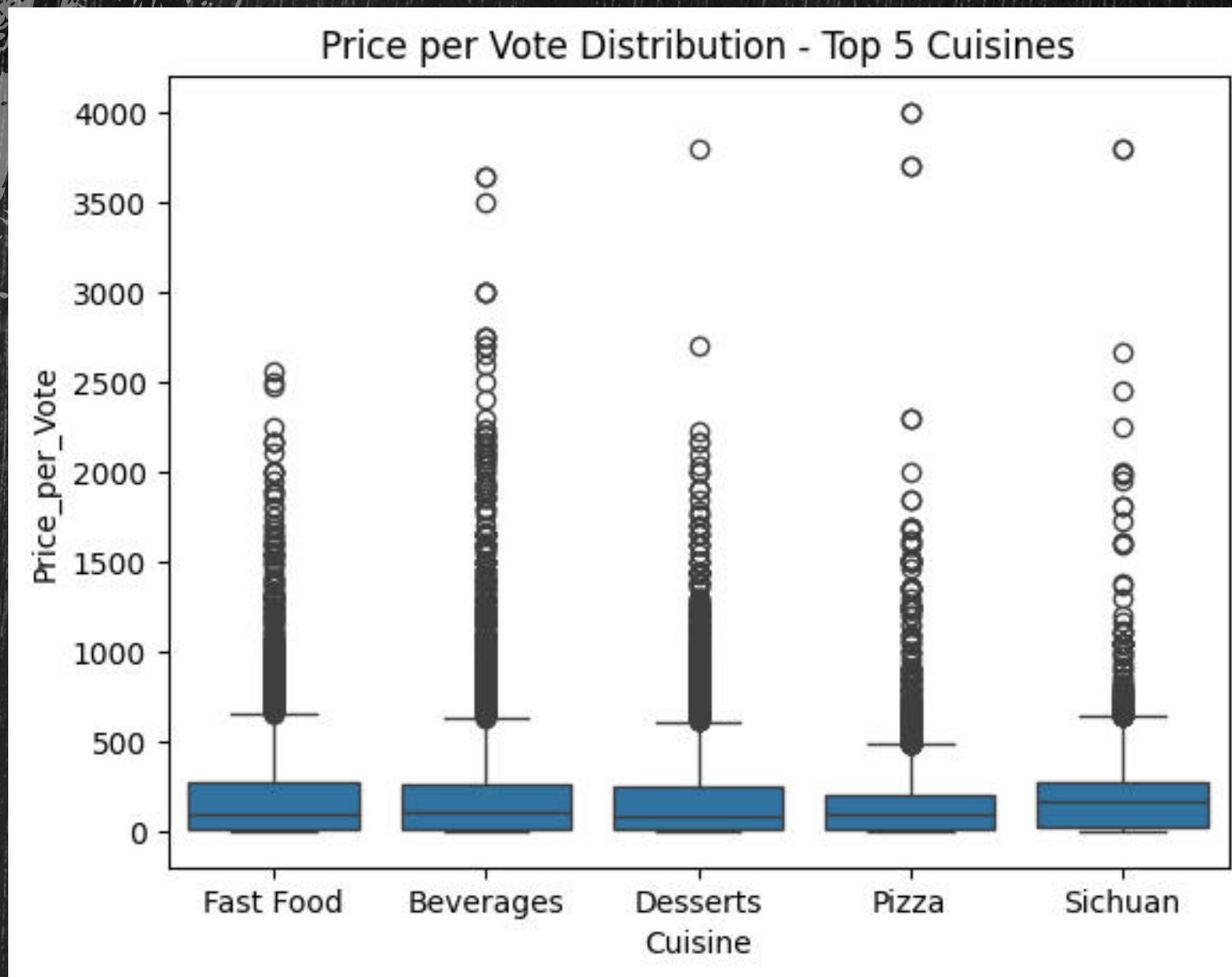
Opportunity: New or niche cuisines still have open market space for entry.

2) High demand (Total Votes) concentrates in few cuisines

Only a few bubbles show warm colors (high Total Votes), meaning customer demand is concentrated in select cuisines (like North Indian, Fast Food).

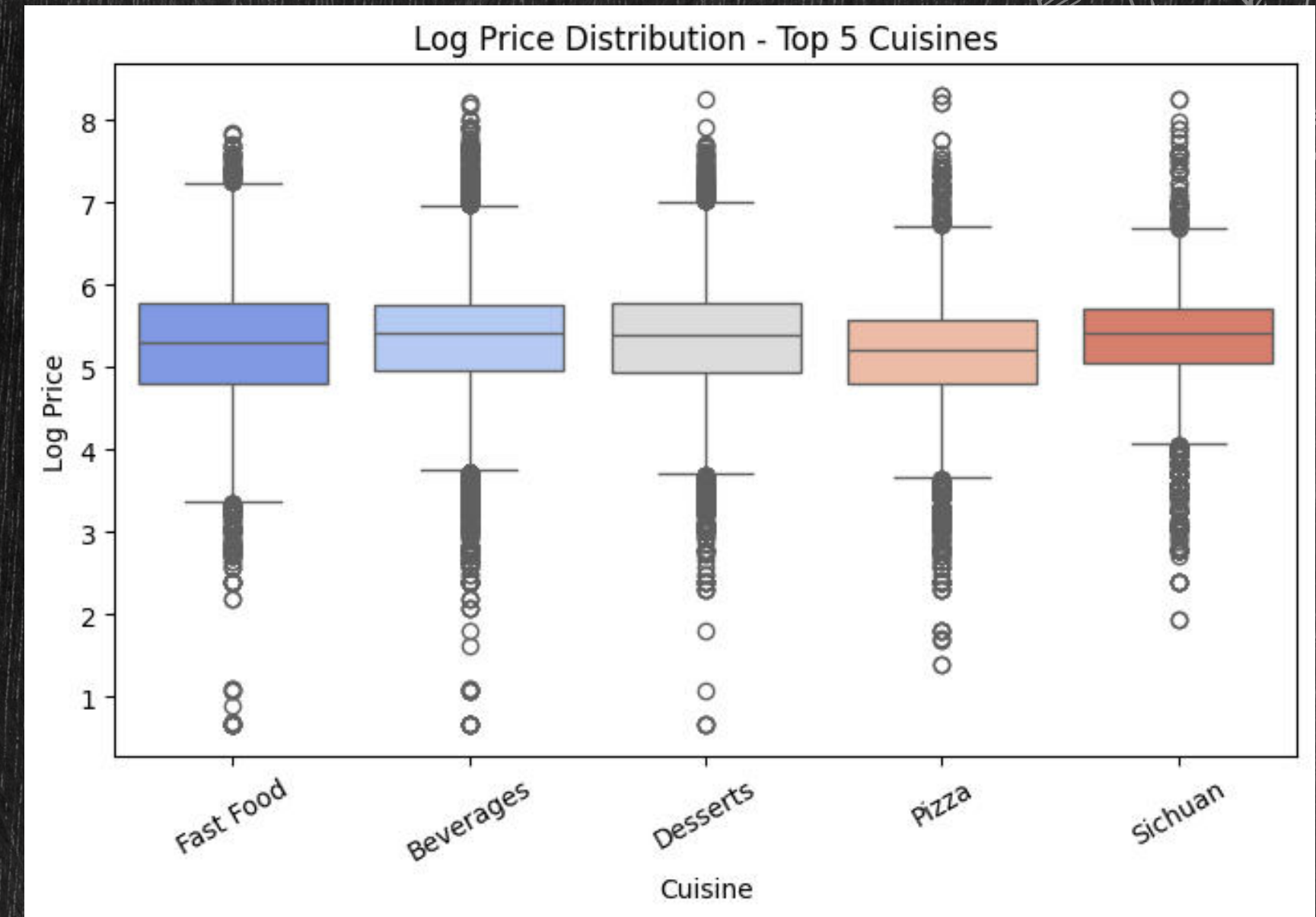
Opportunity: Identify similar cuisines with fewer competitors to capture unmet demand.

Price Point Analysis



All top cuisines share a similar median price-per-vote (₹50–₹150), representing mid-range affordability.

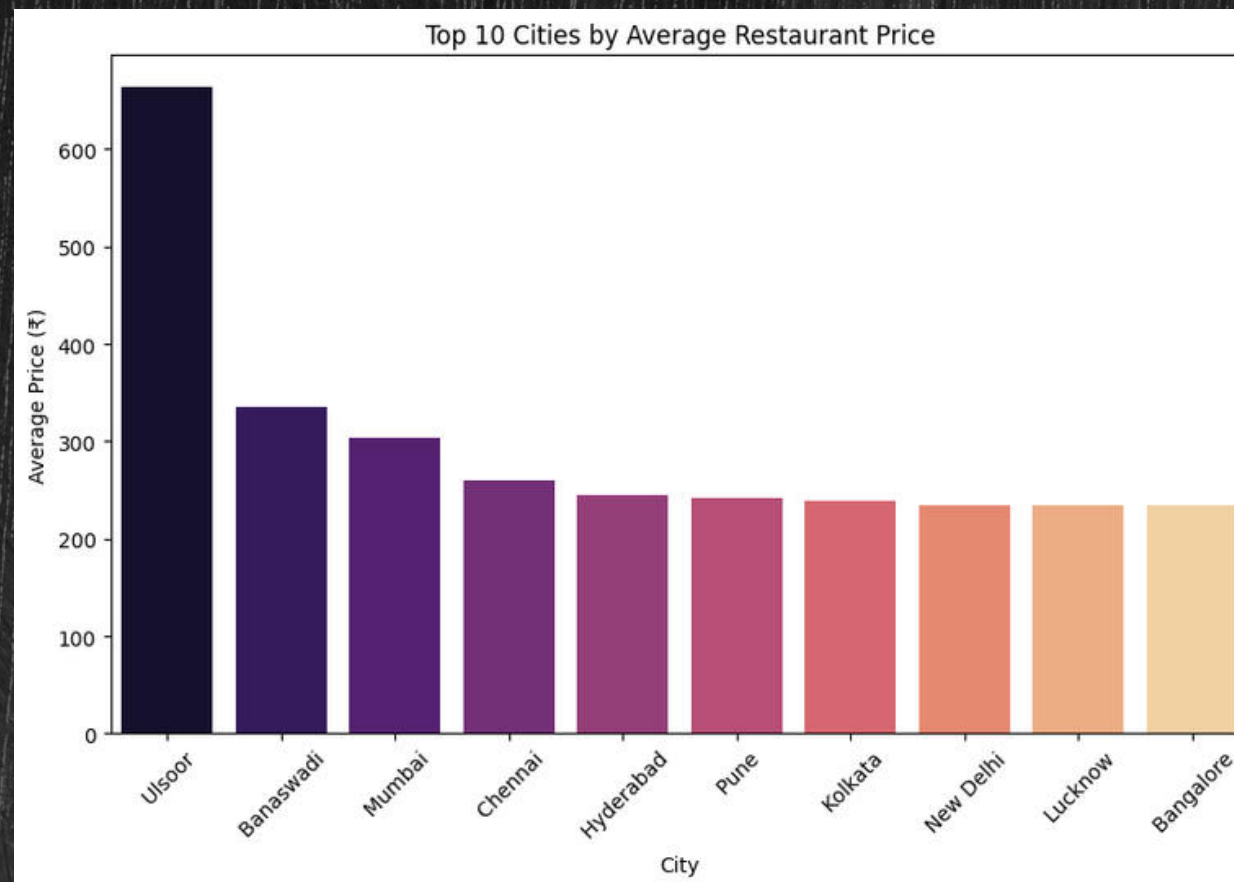
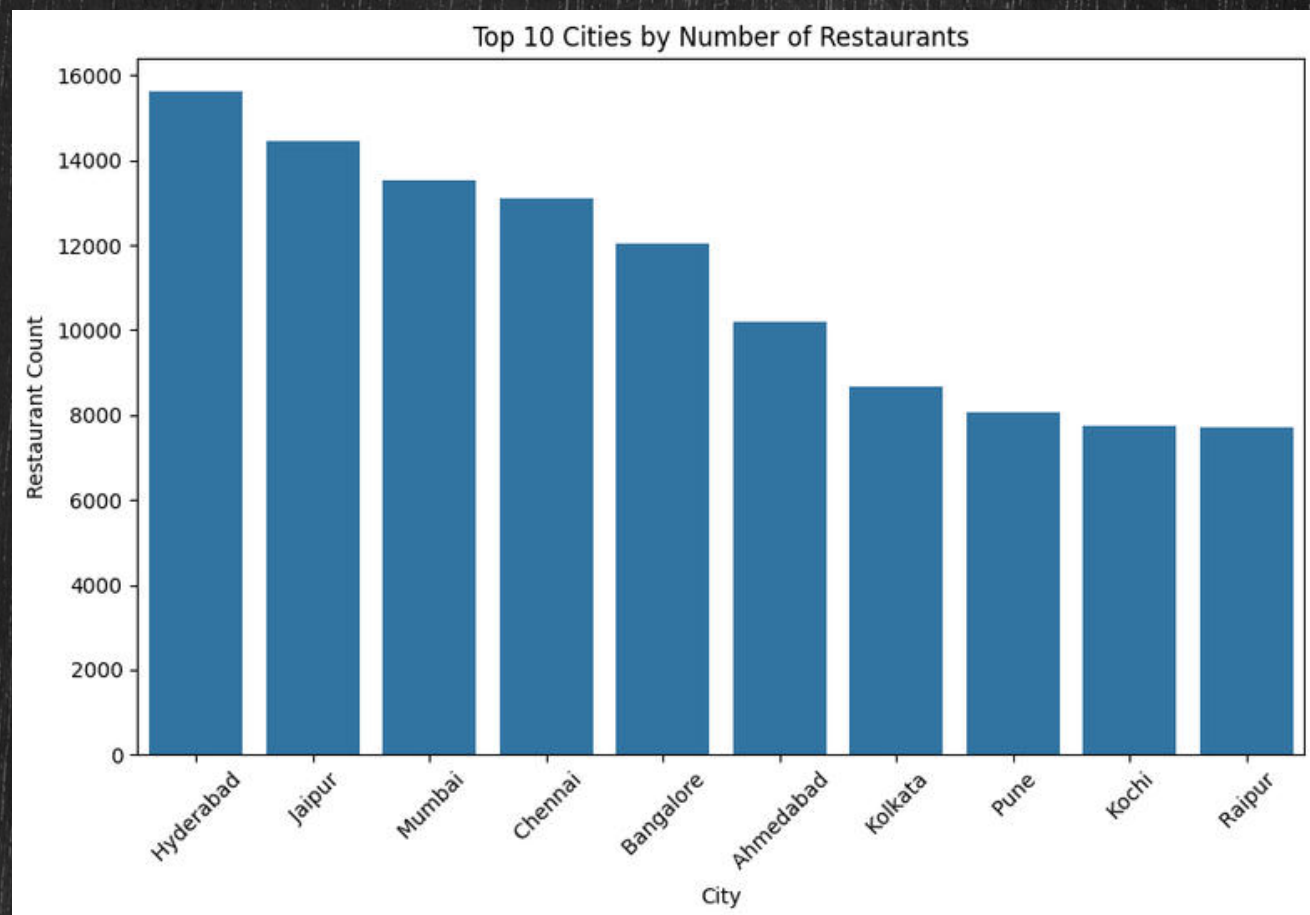
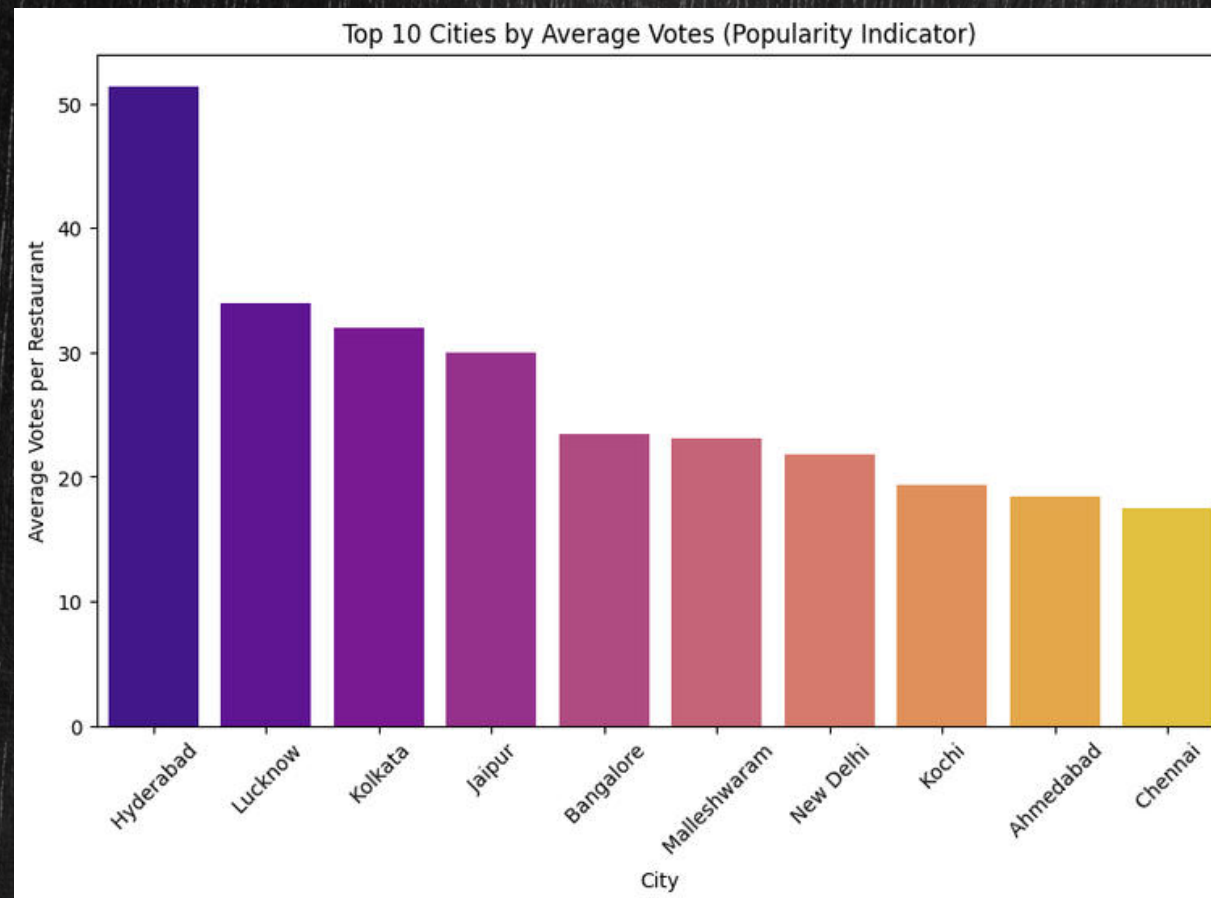
Desserts and Beverages show the widest price range, meaning customers are open to both budget and premium pricing.



The Log Price distribution shows a clear mid-market equilibrium, with Desserts, Beverages, and Sichuan offering broad pricing flexibility and potential for premium expansion.

Meanwhile, Fast Food and Pizza remain mass-market, low-margin categories best suited for high-volume delivery models.

City-Level Viability

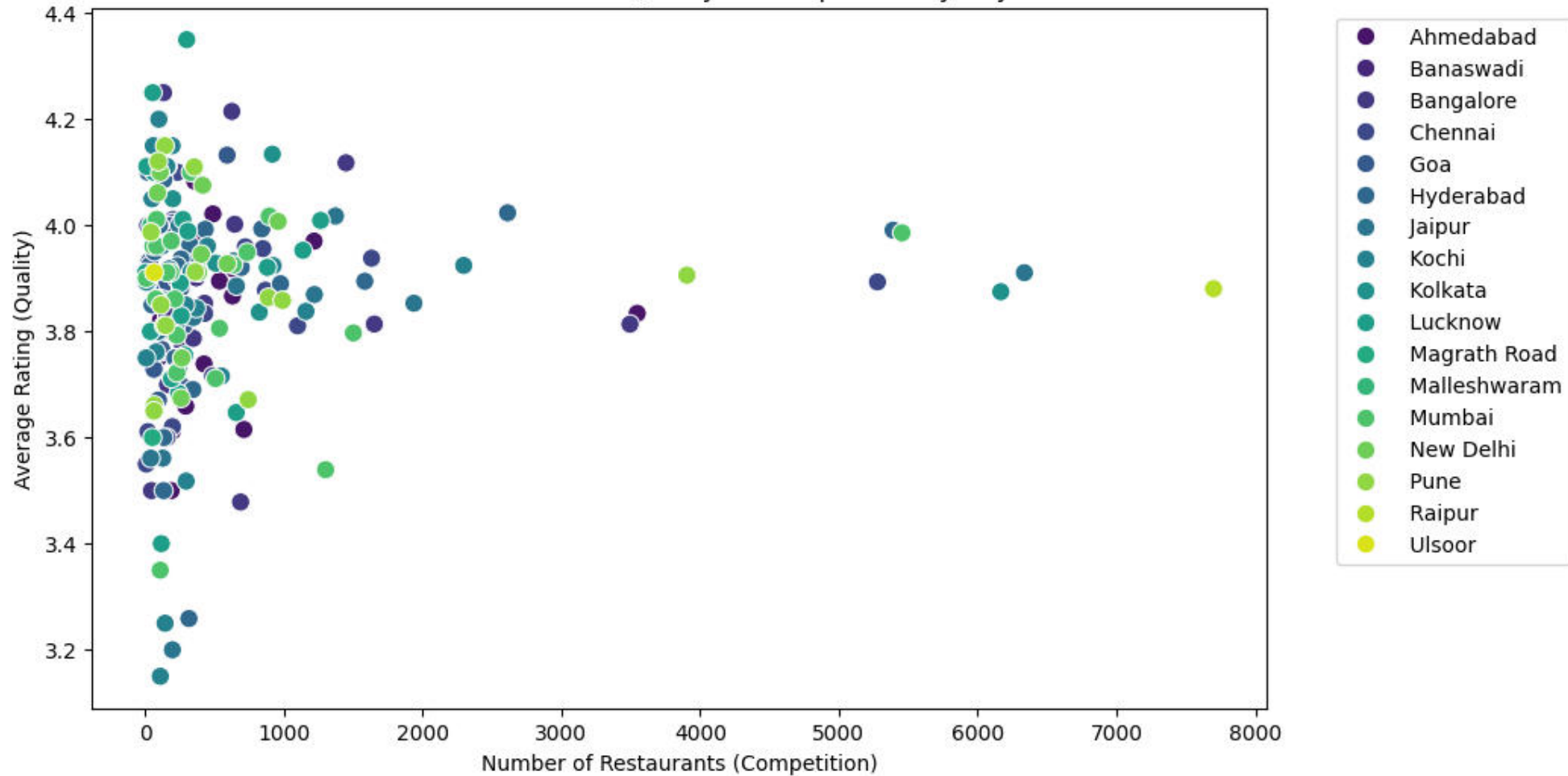


Business Summary:

- High potential markets: Hyderabad (strong demand + popularity)
- Premium markets: Ulsoor, Banaswadi (higher price points)
- Emerging markets: Kochi, Raipur (low competition, early entry advantage)
- Balanced quality & volume markets: New Delhi, Jaipur, Chennai

Micro Market Analysis

Micro Market: Cuisine Quality vs Competition by City

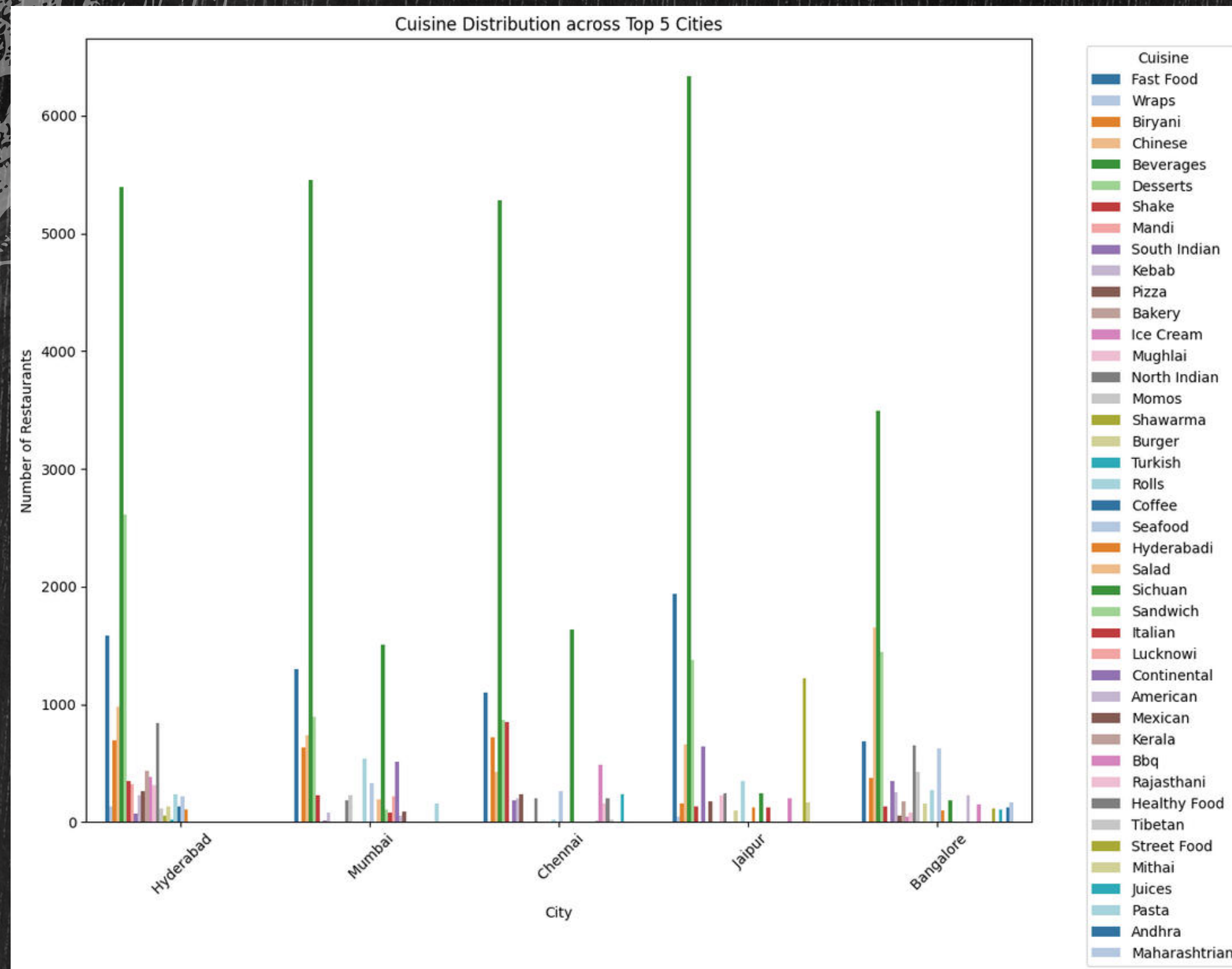


Business takeaway:

Chef Innovator should target mid-competition, high-quality cities such as Kochi, Malleswaram, or Raipur, where demand meets manageable competition, ensuring steady growth with lower entry risk.

Micro Market Analysis – Key Insight

- The x-axis (competition) shows how crowded each city's food market is, while the y-axis (average rating) shows perceived quality.
- Most cities cluster between moderate competition and high quality (3.8–4.2) — meaning quality remains consistent across markets.
- Hyderabad, Jaipur, and Mumbai show high competition but maintain good quality, indicating mature yet reliable markets.
- Cities like Kochi and Malleswaram offer high-quality cuisine with relatively low competition, making them ideal for new entrants seeking early advantage.
- Overly competitive markets (e.g., New Delhi, Chennai) may need strong differentiation or niche positioning for success.



1. Market Dominance: High-Volume & Casual

- Beverages and Desserts are the most common business types across all five cities, indicating a huge market for quick-service, often affordable, refreshment and treat options.
- North Indian and Fast Food are fundamental, high-volume segments, serving as a core part of the dining landscape everywhere.

2. Key City Highlights

- Jaipur has the highest overall concentration of restaurants, peaking significantly in almost every major category (e.g., Beverages).
- Hyderabad is strongly defined by Biryani, which is a far more numerous business type there than in any other city.

3. Niche Segments

- International Cuisines (e.g., Continental, Italian, Mexican) are consistently low-volume niche segments, suggesting the mass market is overwhelmingly focused on Indian, Fast Food, and beverage-based concepts.

Risk Assessment



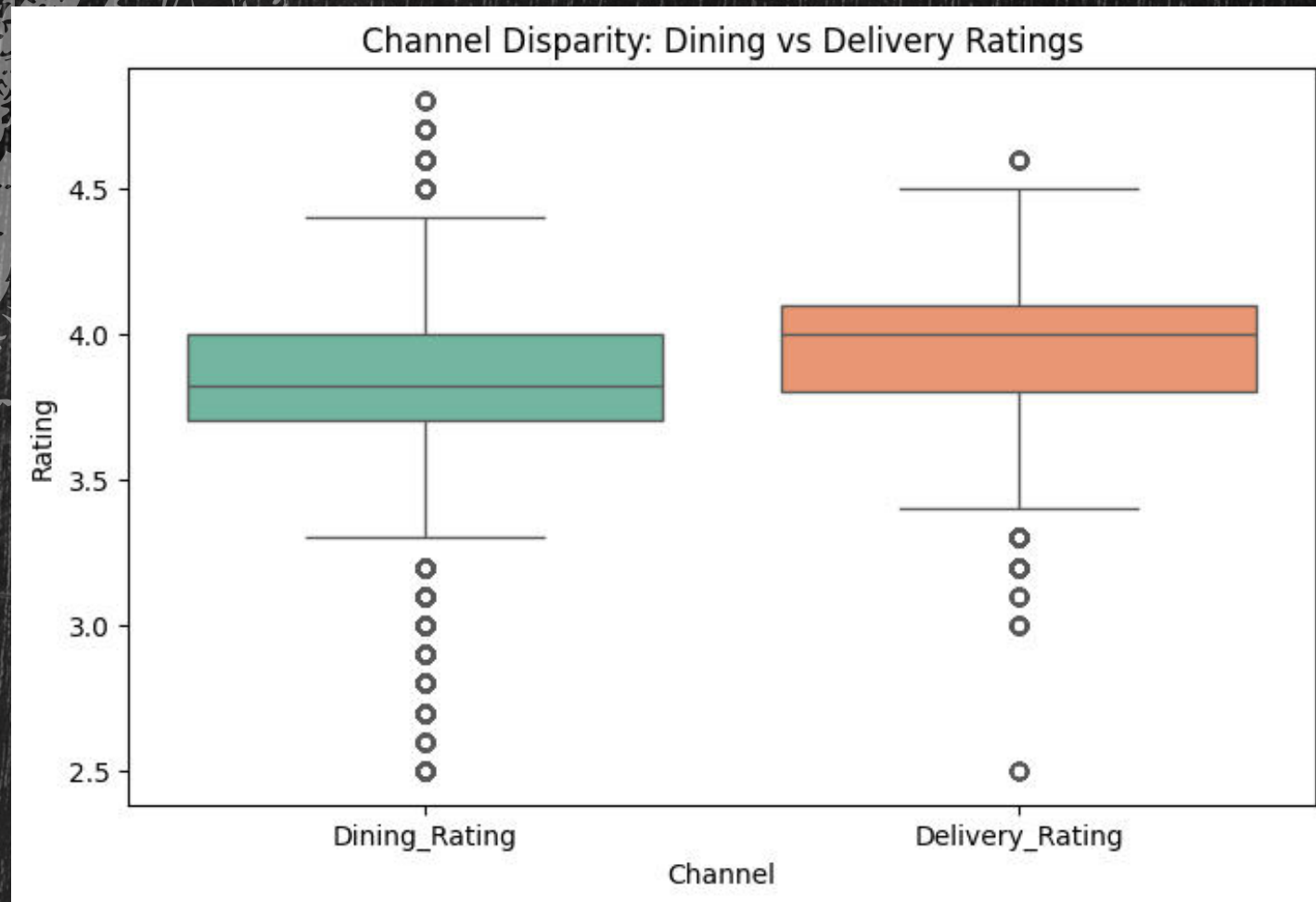
1.High-High (High Rated + High Expensive): Luxury, competitive — requires brand differentiation (e.g., Delhi, Chennai).

2.High Rated + Low Expensive: Perfect for affordable quality ventures (e.g., Raipur, Lucknow).

3.Low Rated + High Expensive: Risky but high potential for disruption (e.g., Ulsoor, Goa).

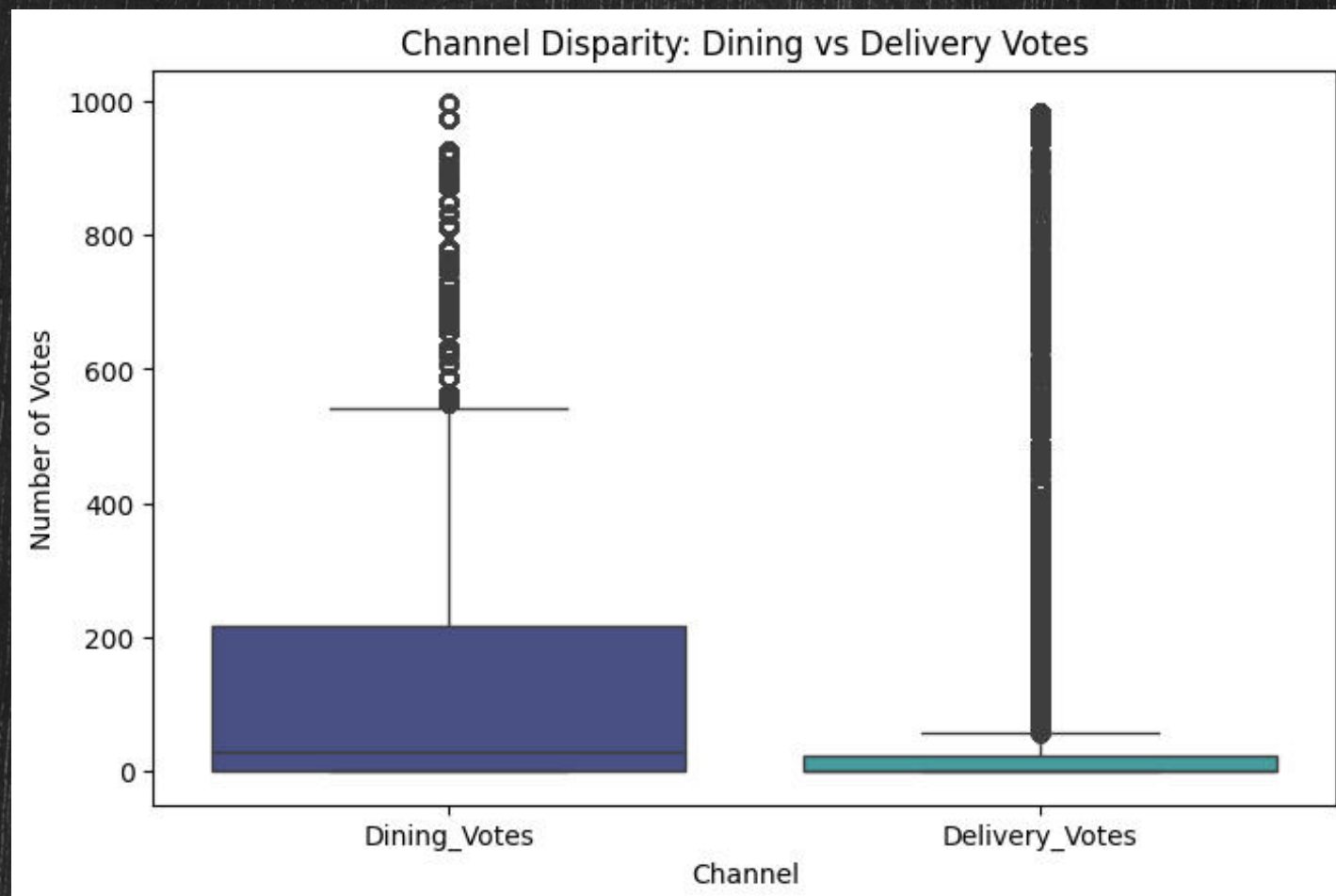
4.Balanced Markets: Focus on operational efficiency and steady growth (e.g., Pune, Bangalore).

Channel Disparity



Median Rating (Dining ≈ 3.8) is slightly lower than Delivery (≈ 4.0).
Delivery ratings are more consistent, with fewer extreme low values compared to dining.

This suggests that customers are generally more satisfied with delivery experiences, possibly due to convenience and faster service.



Dining Votes show a much wider spread and many outliers, indicating some restaurants get huge in-person engagement.
Delivery Votes are mostly clustered near the lower range — suggesting fewer customers bother rating delivery, even though the ratings are higher.

Interpretation: Dining attracts more active reviewers, but delivery dominates in satisfaction consistency.

Optimal Channel Focus

The delivery channel shows more consistent satisfaction levels (less variance, higher average ratings).

The dining channel has higher customer engagement but also higher variability — meaning greater risk in maintaining uniform quality.

Customers seem more satisfied with delivery experiences, possibly due to faster service, convenience, and standardization.

Begin as a cloud kitchen focusing on strong packaging, timely delivery, and food quality.

Once a loyal delivery base and strong brand reputation are established, expand into dine-in at key high-demand localities.

Final Insights

◆ Strategic Area 1: Category (Cuisine) Selection Performance vs Popularity

A demand–quality matrix comparing votes (popularity) and ratings (quality) revealed:

Fast Food, Pizza, and Desserts are high-demand and highly-rated cuisines.

Beverages and Sichuan have moderate demand but strong ratings, indicating niche appeal.

Insight: → Fast Food and Pizza stand out as mass-market, proven, high-demand categories. → Desserts emerge as a premium niche opportunity with loyal customers and good quality perception.

Market Saturation

The Cuisine Market Saturation plot showed:

Fast Food and Pizza are saturated (many competitors, high demand).

Desserts and Beverages have fewer restaurants but high average ratings — an ideal blue ocean opportunity.

Insight: → Desserts and Beverages combine high customer satisfaction with low competition, making them optimal entry points.

Price Point Analysis

Price per Vote and Log Price analyses show:

Fast Food and Pizza = Mid-range and volume-driven.

Desserts = Higher average log price, premium pricing accepted.

Beverages = Budget-to-mid-tier, scalable model.

Insight: → Chef Innovator should position the chosen cuisine as mid-to-premium, balancing affordability with brand value.

✓ Final Cuisine Recommendation: Desserts / Beverages — premium niche with growth headroom and loyal consumer base.

Final Insights

◆ Strategic Area 2: Market (City & Place) Selection City-Level Viability

Aggregated city-wise ratings and total votes indicate:

Mumbai, Hyderabad, and Bangalore lead in votes (demand) and average rating (quality).

Kolkata and Jaipur follow with stable engagement and affordability.

Insight: → Mumbai has the highest consumer engagement, brand visibility, and diverse demand profile — ideal for market entry.

Micro-Market Analysis

Within top cities, micro-locations were compared by:

Restaurant count (competition)

Popularity (votes per restaurant)

Results show:

In Mumbai, areas like Bandra, Powai, and Andheri show high popularity with moderate restaurant density.

Insight: → Focus launch in Mumbai – Bandra or Powai, offering strong footfall but room for brand differentiation.

Risk Assessment

Comparison of % of Highly Rated vs. % of Expensive Restaurants reveals:

Mumbai and Hyderabad have high percentages in both — competitive but quality-driven markets.

Jaipur and Kolkata show lower risk and steady demand.

Insight: → Mumbai offers large opportunity with moderate risk — suitable if brand quality remains strong. → Jaipur could be a lower-cost pilot market before expansion.

✓ Final Market Recommendation: Primary Market: Mumbai (Bandra / Powai) Secondary Pilot: Jaipur (emerging mid-tier market)

Final Insights

◆ Strategic Area 3: Channel (Dining vs Delivery) Channel Disparity Analysis

Dining Ratings: Avg \approx 3.8 (high variability)

Delivery Ratings: Avg \approx 4.0 (consistent, better median)

Dining Votes: More engagement but uneven experience.

Delivery Votes: Fewer, but show higher satisfaction.

Insight: → Consumers rate delivery experiences higher than dine-in, showing a shift toward convenience-driven preferences.

Optimal Channel Focus

Delivery-first model offers:

Lower operational cost

Faster scalability


Higher and more consistent ratings


Lower entry barrier for new brands

Insight: → Start as a delivery-first cloud kitchen, later expanding to select dine-in outlets in high-traffic areas.

✓ Final Channel Recommendation: Delivery-First Model, with future dine-in expansion in high-demand micro-markets.

Thank You

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