Final Updated Recommended Analysis Questions

Theme: Data Science and Analytics

Problem Statement : Develop a food delivery analytics dashboard with delivery times, customer ratings, and order patterns.

1. Delivery Efficiency & Operations:

- 1. What is the average delivery time across all orders?
- 2. What % of deliveries were on-time vs delayed (compare delivery_time with expected_delivery_time)?
- 3. Which delivery partners have the best/worst delivery times (avg delay per partner)?
- 4. Do delivery times vary by city (city-level performance)?
- 5. What are the peak load hours (time of day/week) where delivery delays are highest?
- 6. Build a time series trend of average delivery times over weeks/months shows operational changes/scalability.

2. Customer Experience & Ratings:

- 1. Which restaurants have the highest/lowest ratings (with min review threshold)?
- 2. Is there a correlation between late deliveries and lower ratings?
- 3. Do higher-rated restaurants get more repeat customers/orders?
- 4. Which cities have the best/worst average restaurant ratings?
- 5. Create a ratings vs delivery time scatter analysis Are customers rating restaurants lower when food is late?

3. Order Patterns & Business Insights:

- 1. What are the top 10 most ordered dishes overall?
- 2. Which days/hours are peak demand periods (order volume time-series)?
- 3. Which cities generate the highest revenue and which are underperforming?
- 4. Which restaurants generate the most revenue (total sales from orders)?
- 5. What is the average basket size (order value per customer) and how does it vary by city?
- 6. Who are the top 10 customers by spend and order frequency?
- 7. Use time-series forecasting to predict future order demand (hourly/daily).

4. Scalability & Strategic Insights:

- 1. Delivery partner load analysis Which partners are handling the most orders per day/week?
- 2. City-level growth potential Which cities are showing consistent rise in orders (time series)?

- 3. Profitability estimation Which restaurants/cities give highest revenue per delivery partner?
- 4. Customer segmentation Frequent vs one-time customers Retention vs acquisition insight.