Key Findings:

1. Popular Dishes:

  - Grilled Chicken and Spaghetti are the most ordered dishes with average ratings above 4.5.

  - Caesar Salad is also popular but has a slightly lower average rating.

2. Demographics:

  - Users aged 27-30 are the most active in placing orders.

  - Dinner is the most popular meal type, with an average cooking duration of 38.75 minutes.

3. Meal Timing:

  - Orders are distributed across different times of the day, with notable peaks for dinner and lunch.

Business Recommendations:

1. Focus marketing efforts on promoting popular dishes like Grilled Chicken and Spaghetti.

2. Target users aged 27-30 with personalized offers and promotions.

3. Optimize operations for dinner services, as it has the highest cooking duration and popularity.

4. Explore opportunities to improve lunch and breakfast offerings to balance demand.

Based on the visualizations above, here are the key insights:

1. Order Distribution by Time of Day and Meal Type:

    - Dinner shows the highest order volume across different times of the day

    - Evening hours are the busiest overall for orders

    - Breakfast orders are concentrated in the morning hours, showing clear meal-time preferences

    - Lunch has a moderate distribution across mid-day hours

2. Average Rating by Dish:

    - Grilled Chicken leads with the highest average rating (approximately 4.7/5.0)

    - Spaghetti follows closely with around 4.5/5.0

- Most dishes maintain ratings above 4.0, indicating generally high customer satisfaction
- Caesar Salad, while popular, has slightly lower ratings compared to the top dishes

3. Session Duration vs Rating Correlation:
    - There's no strong linear correlation between session duration and ratings
    - Longer cooking sessions don't necessarily result in higher ratings
    - Most sessions cluster between 20-40 minutes
    - High ratings (4+ stars) are achieved across various duration lengths

4. Revenue Distribution by Meal Type:
    - Dinner generates the largest portion of revenue (approximately 45-50% of total revenue)
    - Lunch accounts for roughly 30% of revenue
    - Breakfast contributes the smallest revenue share (around 20-25%)

Additional Metrics Show:

Average Order Amount: - Dinner has the highest average order value at $13.31 - Lunch orders average $10.00 - Breakfast has the lowest average at $7.83

Session Duration: - Dinner preparations take longest at 38.75 minutes on average - Breakfast takes about 23.33 minutes - Lunch is most efficient at 21 minutes

Operational Performance: - The order completion rate is 87.5%, indicating good operational efficiency - However, there's room for improvement in reducing the 12.5% of incomplete orders

Business Recommendations:

1. Focus on dinner service optimization since it's the highest revenue generator and has the longest preparation times

2. Investigate ways to increase breakfast revenue, possibly through promotional activities or menu expansion

3. Look into streamlining dinner preparation times while maintaining the high quality (as indicated by ratings)

4. Consider implementing strategies to improve the order completion rate to above 90%

5. Leverage the popularity and high ratings of Grilled Chicken and Spaghetti in marketing campaigns