The FoodHub Business Analysis

Lawrence C. Williams | Data Scientist

The Goal

- Generate a list of restaurants to focus our advertising promotion
 - Minimum number of ratings
 - minimum rating
- Generate other insights from the resulting analysis
 - Recommendations as necessary

The Method

Source Data

Parse through the website HTML selecting the desired fields for each order.

Data Cleaning

These data were fairly clean and well organized from the collection phase. Changing data types and handling NaN's

Plotting

Plotting with various univariate and multivariate methods and derive insights

Submit Reports

Gathering results and effectively delivering actionable recommendations

Univariate Analysis

The count of orders by weekday or weekend

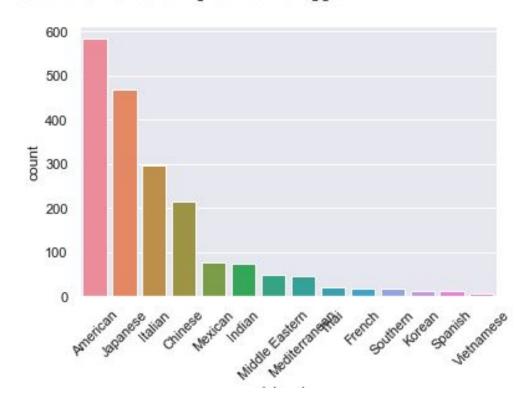
 Far more orders on the Weekend, than Weekday



Univariate Analysis

Count of orders by cuisine type

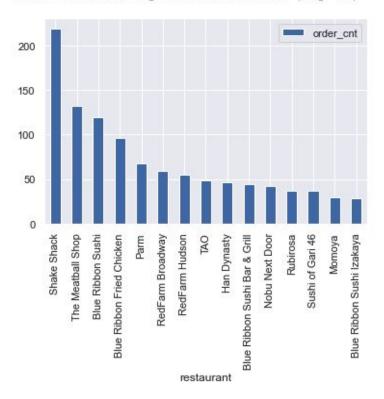
- American,
 Japanese, Italian
 and Chinese have
 greatest volume
- Focus advertising efforts in these cuisine types for best ROI



Univariate Analysis

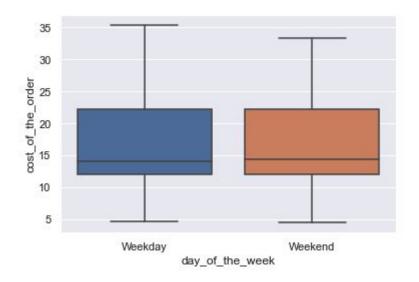
- The 15 most visited restaurants in this data
- Combined with the cuisine types previously mentioned
- Focus advertising promotional efforts on these top restaurants

Count of orders by restaurant name (Top 15)



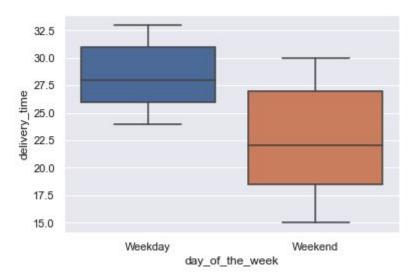
Cost distributions remain similar across
 Weekends and Weekdays

A box plot view of the Weekend/Weekday vs Price



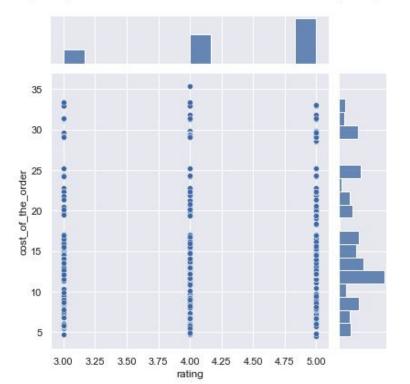
- Delivery time distributions have notable difference between Weekends and Weekdays
- 26% increase on the weekdays with much fewer orders

A box plot view of the Weekend/Weekday vs Delivery Time



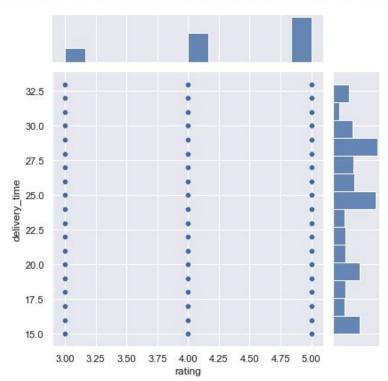
- Ratings scale is too narrow
- Hard to identify a relationship
- Needs further analysis

A jointplot view of the restaurant's rating vs price



A jointplot view of the restaurant's rating vs delivery time

- Ratings scale is too narrow
- Hard to identify a relationship
- Needs further analysis



Conclusion

- Target the following restaurants for the promotional advertising:
 - o The Meatball Shop
 - Blue Ribbon Fried Chicken
 - Shake Shack
 - RedFarm Broadway
 - o Blue Ribbon Sushi
 - RedFarm Hudson
 - Parm
- Increase efforts to drive more "review/rating" process buy-in
- Adjust pricing for meals less than or equal to \$5.00
- Upcharge for the dense traffic time periods to make up for the increased delivery times/Incentives to order earlier or later