



BDM CAPSTONE PROJECT

Maximizing Restaurant's Online Success

Presented by – Mahi Mudgal
Roll No.-21f3002602

Organization
Background

Organization
background and
the problem that
they are facing.

Data collection and
analysis

Details about data
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in analysis.

Visualization

Trends and
insights coming
out through
visualizing data

Recommendation with
practical implementation.

Recommendation and
Expected Outcome

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Organization Background and Problem Statement

Background

- The Restaurant "Bhaj Govindam" located in Pune, having multiple outlet, running since 2020 successfully ,with an average sitting of 50 tables.
- It is an B2C establishment known for offering delicious vegetarian food that provides a homely experience.
- **Problem facing in its online business :-**
 - Not able to generate enough profit from online business.
 - Number of orders is less.
 - Offers and discount is random not backed by any analysis.
 - Lack of customer knowledge.



Data Analysis Methods

- Cleans data using (find and replace, split, transpose, pivot/unpivot) to handle missing values, data type inconsistencies, and outliers. Connects tables with relationships (one-to-many, many-to-many). Duration: February 2024 to July 2024

Data Cleaning:



Customer Segmentation



- I categorized customers using RFM analysis by calculating recency (last purchase date), frequency (number of purchases), and monetary value (total spending). These values were binned into a score range of 1-4, averaged, and used to create customer segments like Loyal, Champions and At-Risk.

- I conducted item analysis to identify best and worst-selling items, along with popular combos.
- I compared current prices with market rates by collecting relevant data and also I analyzed customer feedback by identifying top recurring words.

Factors Impacting Orders





Customer Segment Dashboard

Filters

Restaurant n...

(Blank)

Bhaji Govindam

RFM Segment

(Blank)

At risk

(Blank)

Clear all slicers

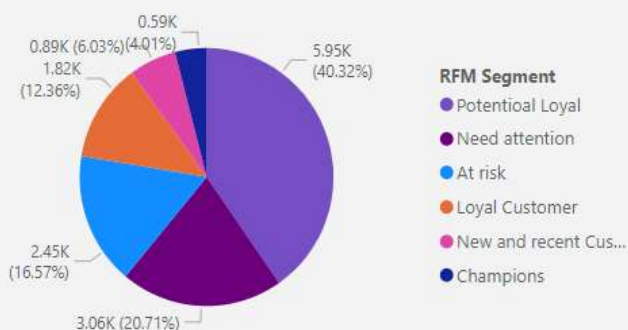
Discount effect order volume



Discount, Rating and segments



Customer segmentation



Monthly customer distribution



Discounts/offers: -As the discount price increases sales volume also increases. It indicates discount plays a crucial role in increasing sales volume sum.

Discount given in **Wednesday** is **less**. **Increase Wednesday sales** by offering a **higher discount** to boost orders and overall revenue.

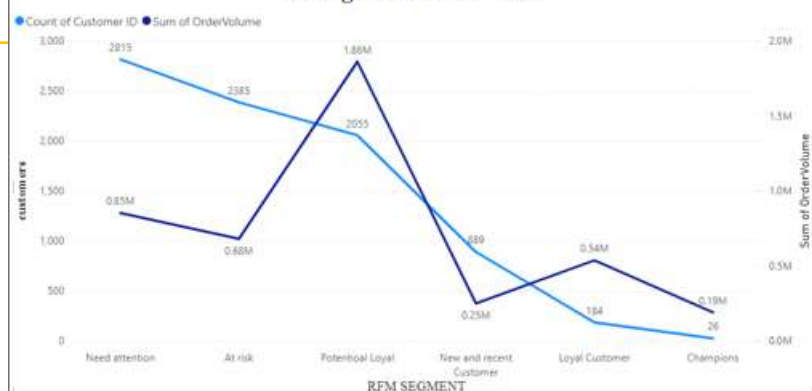
Ratings: -**Loyal customer** including champion and potential loyal are highest contributor of restaurant **visibility**, as they **give higher ratings** which ultimately attracts more orders.

Customer segmentation: - Indicate that number of potential loyal customer is highest these customer have average RFM score. Number of loyal and champions are less.

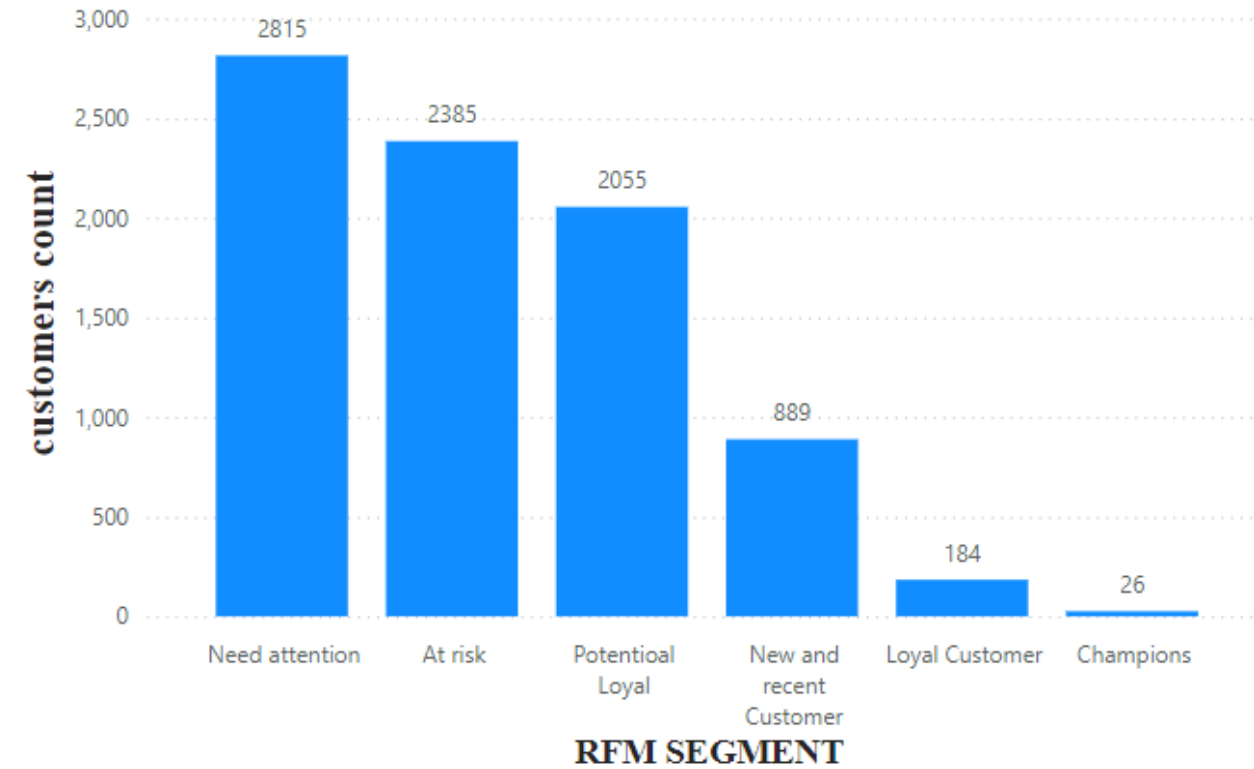
Sales Distribution among customers: There is fluctuation in sales for every segment but loyal customers are consistent.

Conclusion Although there are fewer loyal customers, they contribute the most on average to sales, while potential loyal customers are the highest overall contributors.

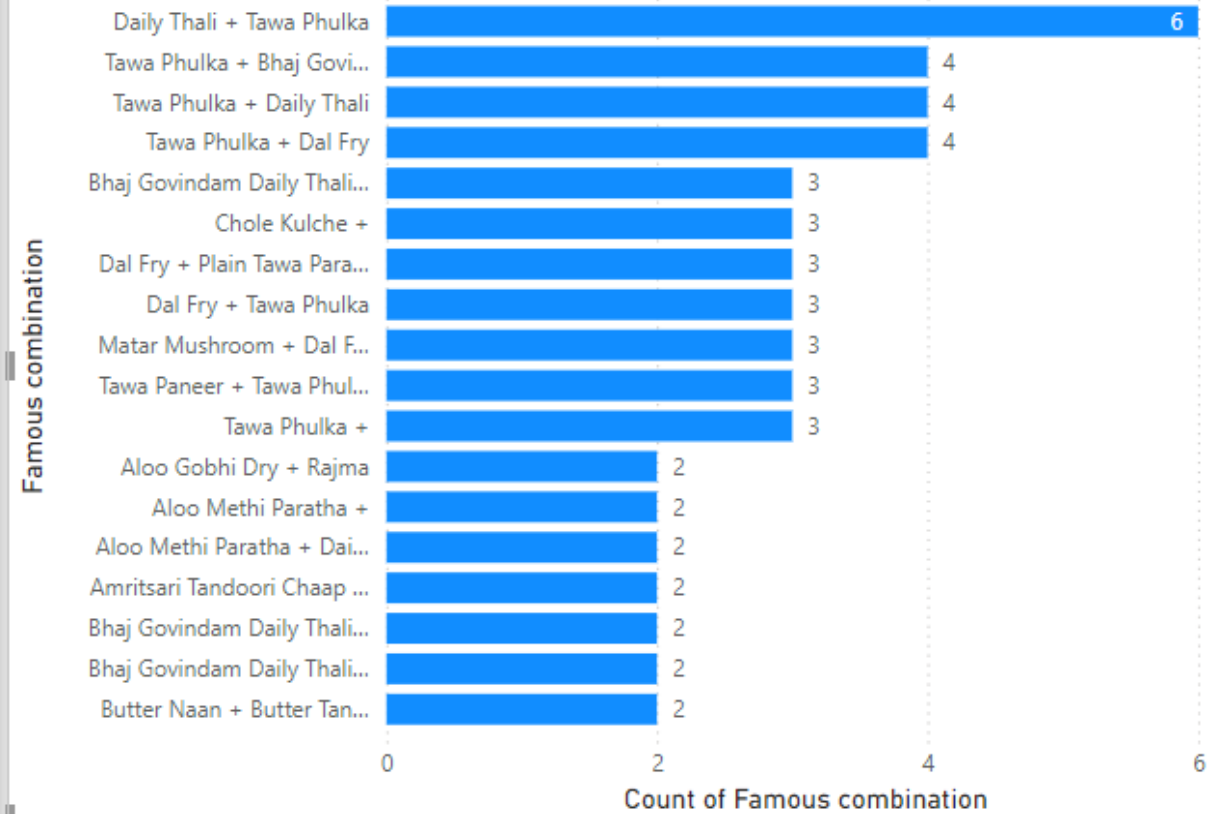
Value generated Vs orders



Deep Dive Analysis of each customer segment on the basis of their preferred item



Famous Item combination



Item deep dive:- This graph indicates that the number of need attention customers is highest and champions is lowest. But champions are contributing most. To **increase these customers** we can **analyze their item preference** so that we offer **same to other new customers** that too segregated based on different outlets help in finding **best item and worst item** of each restaurant.

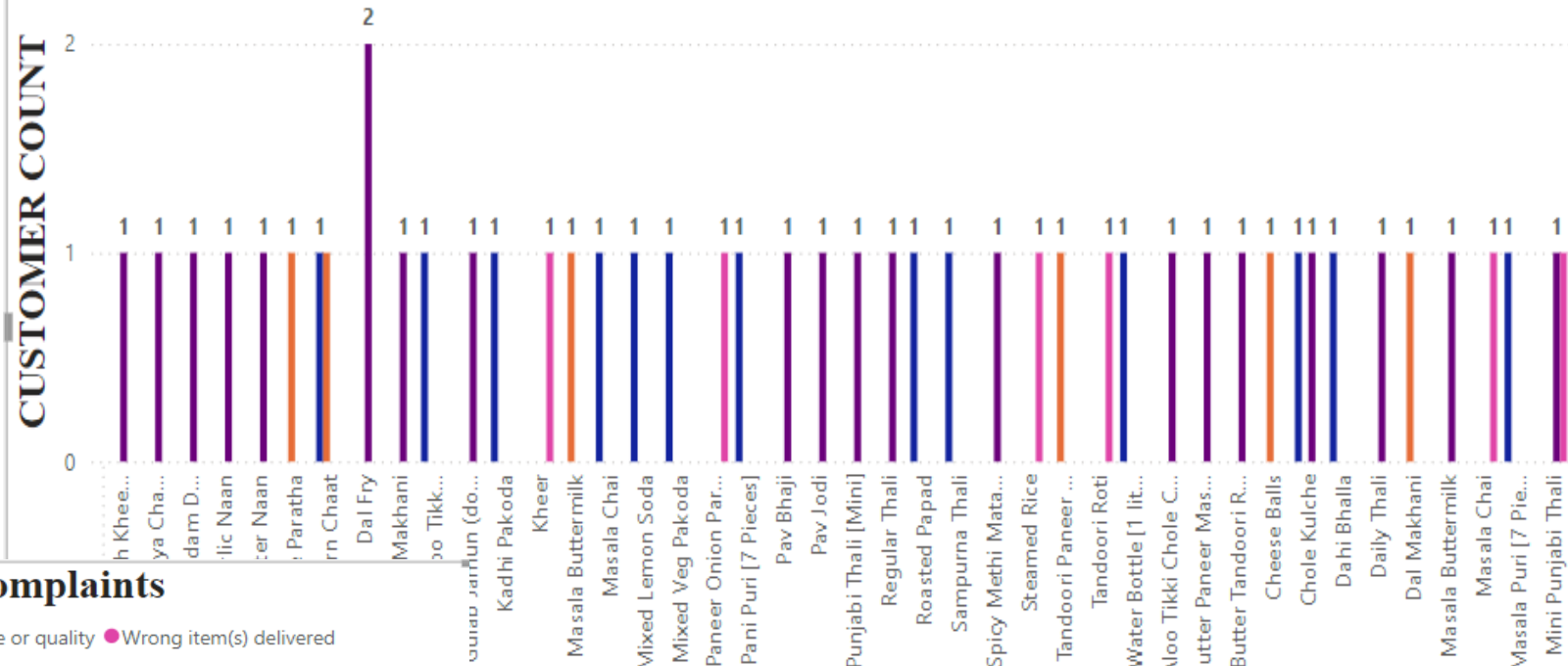
combos:- These are the combos liked by champions. **Majorly liked combos** can be added in menu list. Or can help in creating offers like buy one item and get offer on other. This helps in making meaningful offers/discount and increase quality of menu which ultimately increases visibility and orders.

Complaints analysis findings.

- Ex in potential loyal customers Dal fry is a famous item just need improving quality in Pind paratha.

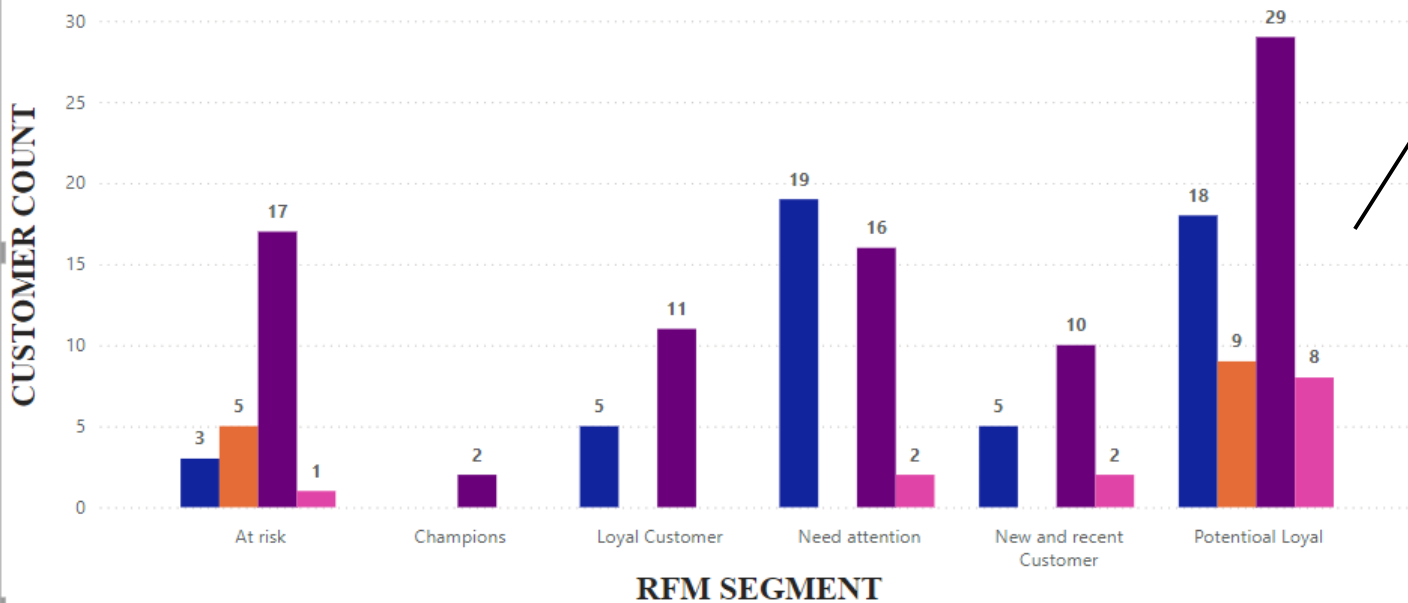
Deep Dive Analysis of customer complaints

Customer complaint tag ● Item(s) missing or not delivered ● Poor packaging or spillage ● Poor taste or quality ● Wrong item(s) delivered



Deep Dive Analysis of customer complaints

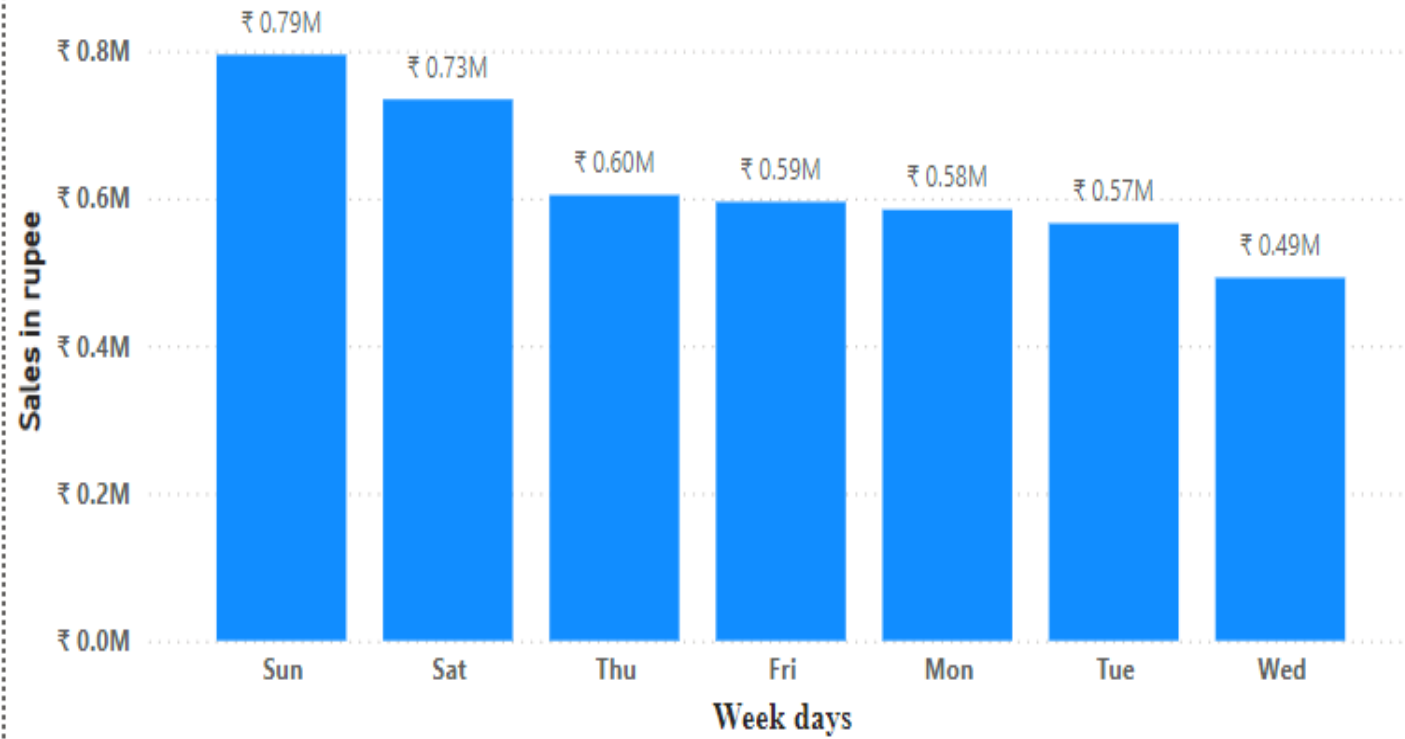
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Complaints analysis findings.

- Buttermilk is having packaging complaints.
- We can see similar analysis for all customer category. Using Power BI drill down

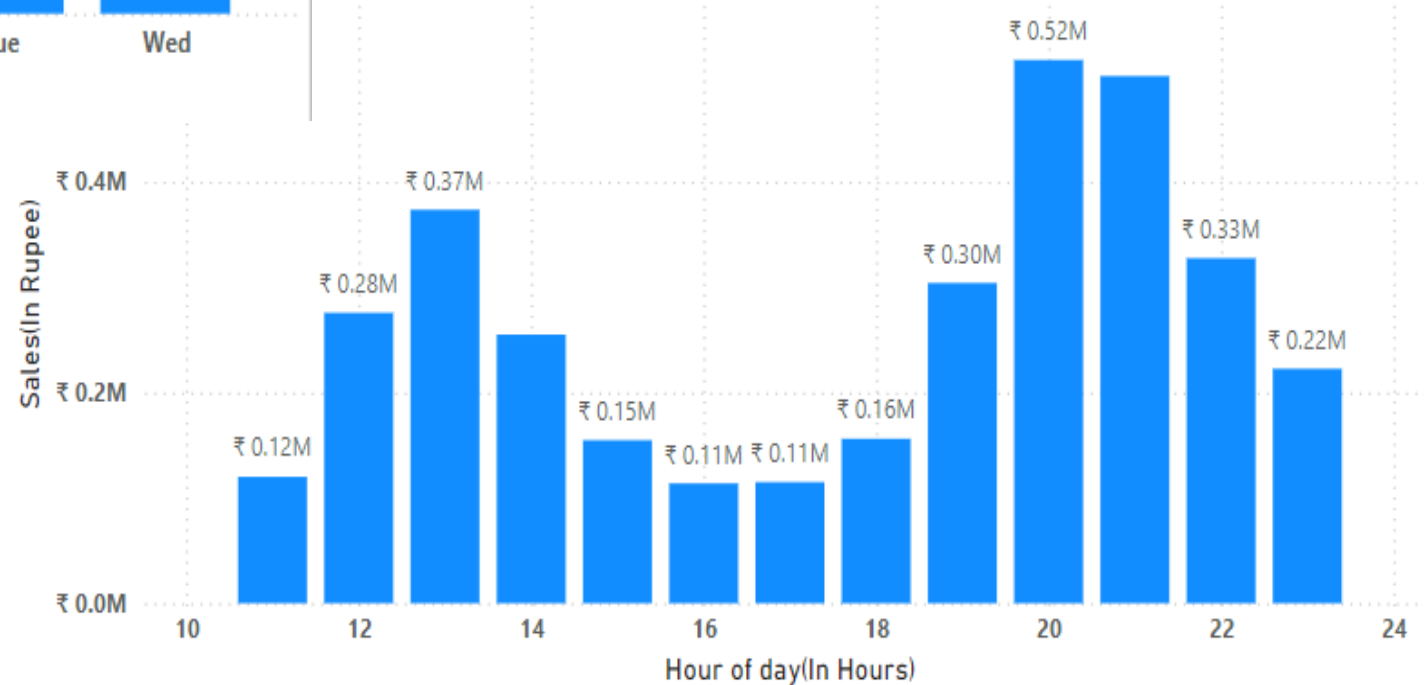
Sales by Weekday



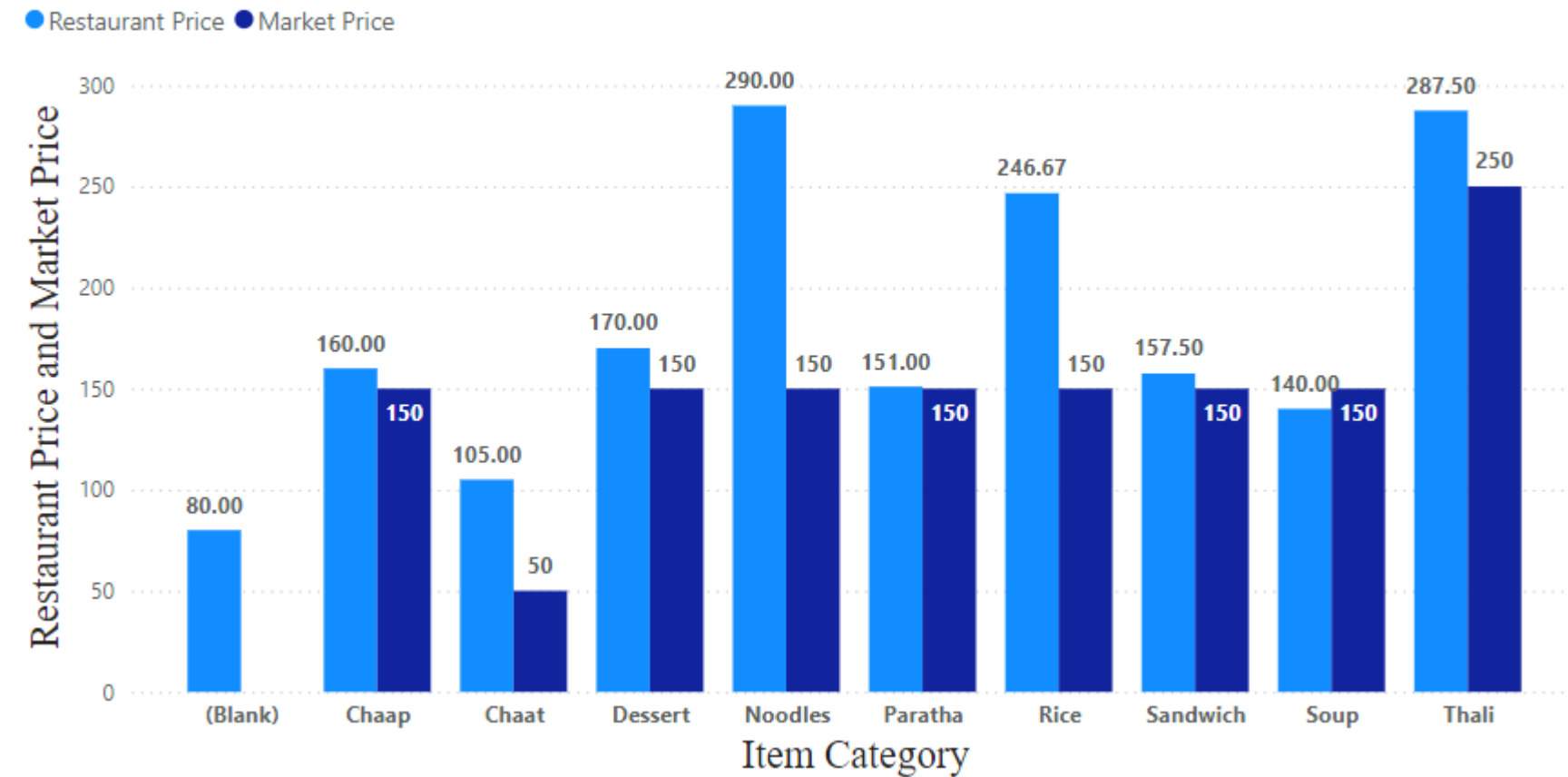
Sunday is the most and Wednesday is least selling day.

Ordering happens mostly at **night**.

Sales By Hour

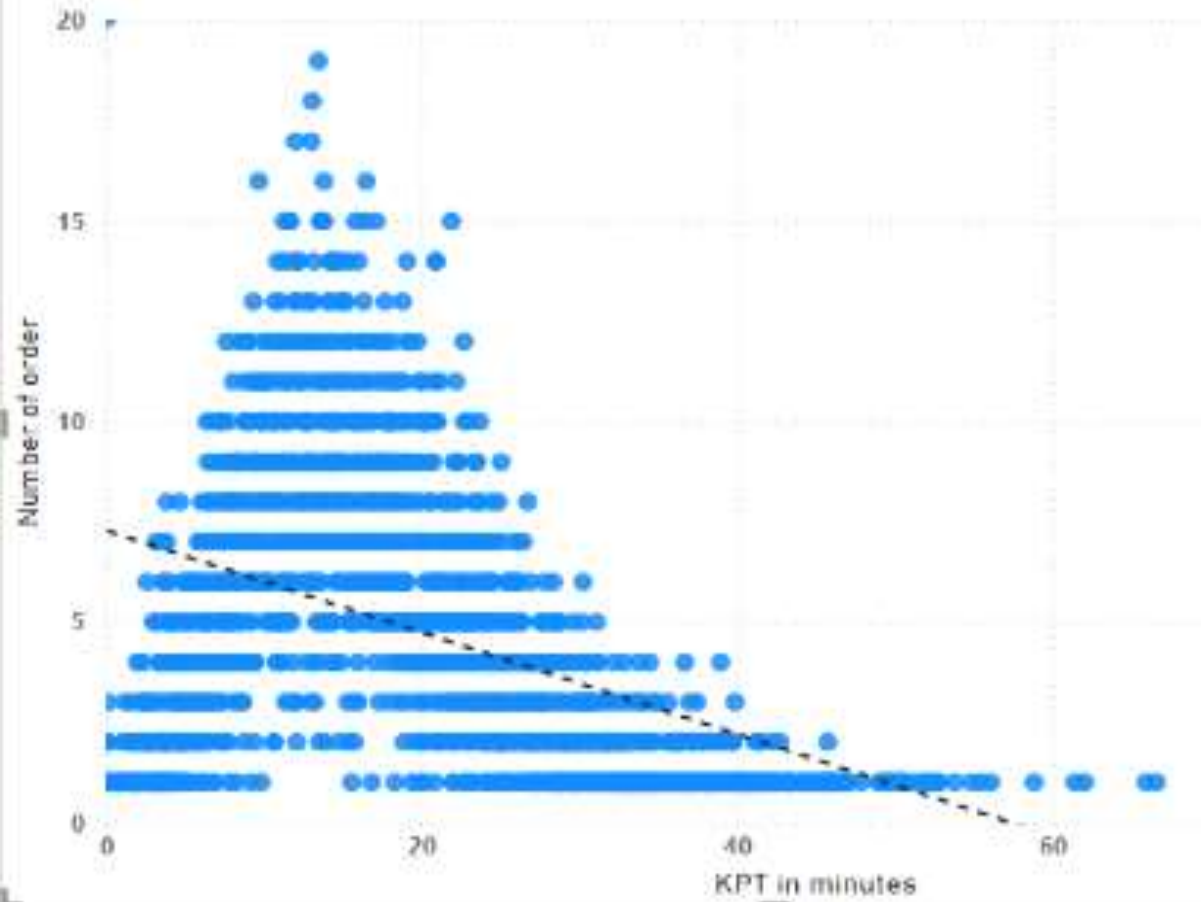


Market VS Restaurant Price trend



Huge Gap between **Noodles** restaurant and market rate. Price is kind of major factor **effecting visibility**, But it should also according to budget. Hence need attention.

Effect of KPT on number of order

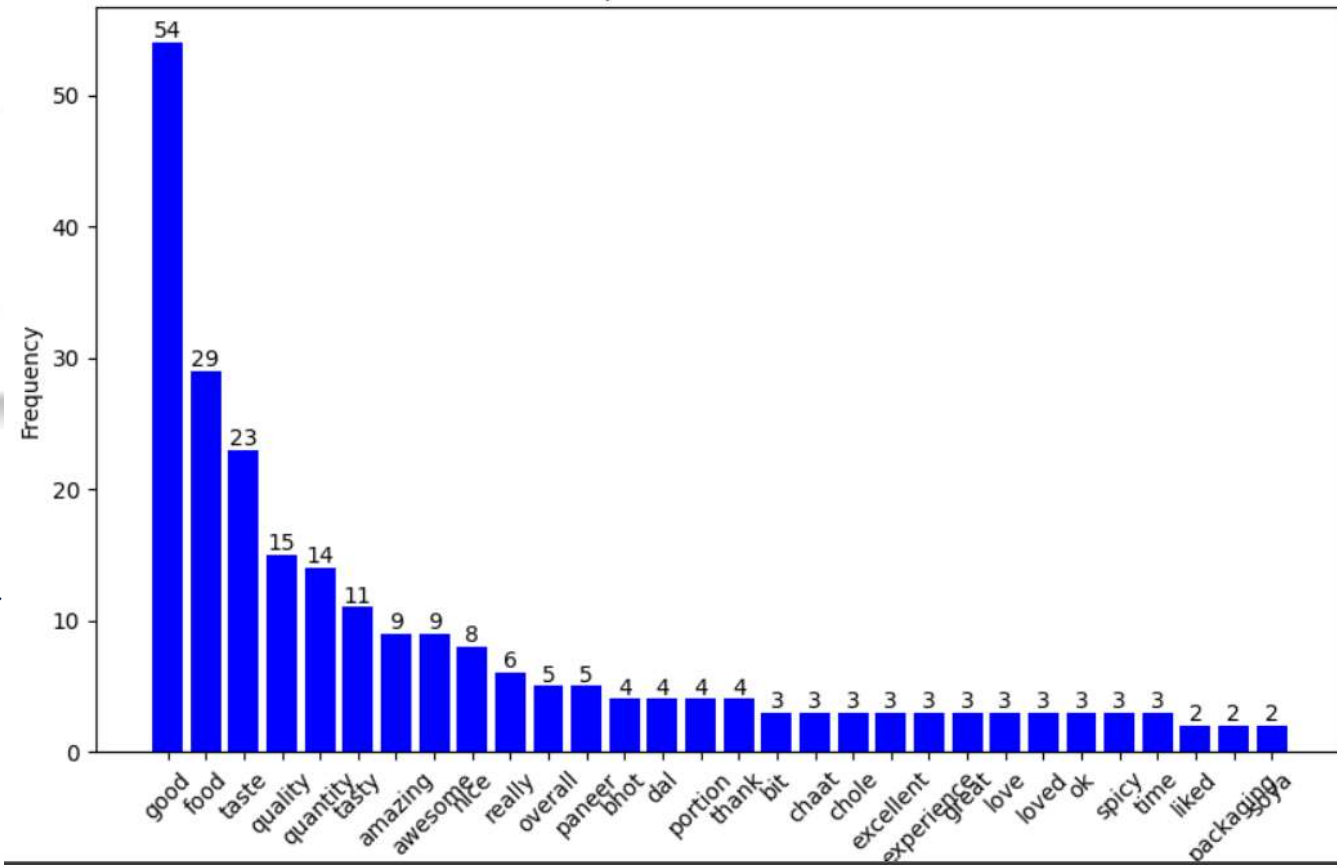


← Increase in Kichen preparation time decrease order number.

Paneer ,chole and chaat are in good book of customer.



Top Words in Reviews



Recommendations



Increasing number of orders.



- **KPT (Kitchen preparation time)** - as we see more the KPT less number of orders. Decreasing this is must. For doing so we can utilize knowledge of customers peak time i.e.. **Sunday and night time. Operational staff need** to be either **more** at this time or need to be prepared for handling more orders during **peak time**.
- **Pricing** – This need to be **comparable** to market to increase number of order specially for **Noodles**. Expenditure needs to be adjusted for achieving optimal price while maintaining profit.
- Focus more on **may** month as it generate highest revenue. Start some offers in **march** as it generate less revenue.
- Increase **wednesday** sales by offering special discount on that day.

Discount/offers and promo issue.



- Customer segmentation can significantly improve this area. **Loyal customers**, including potential loyal customers and champions, contribute the most to revenue, as findings show. The owner can offer special discounts to these customers through **loyalty programs** or by sending coupon codes like '**xyz**' via email, offering x% off for their **loyalty**. This helps retain customers and encourages others to become loyal.
- Similarly, for **potential loyal** and new customers, discounts can be offered on their **next three purchases**.
- **Famous Combos** help manage discounts by identifying which items are likely to be bought together but might not be due to budget constraints. **Offering deals on these items can increase sales**.

Customer awareness- complaints and reviews.

- Identifying frequently sold items that often receive complaints, like **Dal Fry**, and improving them can boost sales while reducing complaints.
- **Refund** amount given on **packaging** by owner is significant hence need to be addressed by **assigning staff** for same specially. Refund for wrong item delivered taken by zomato hence need no attention.

