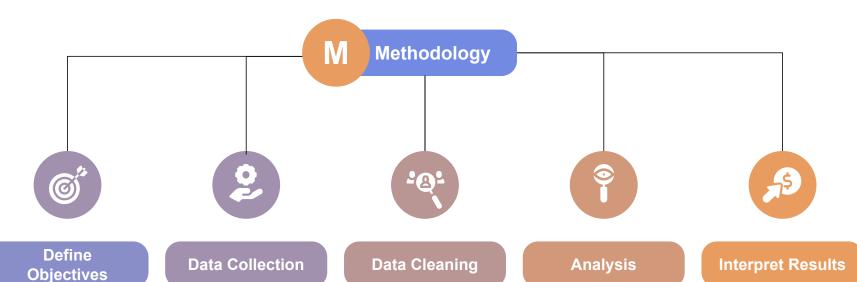
# **SMS Trend Analysis**



# Methodology



Clearly define the goals and objectives of the data analytics project. Ensure that the data collected is accurate, complete, and relevant to the objectives of the project.

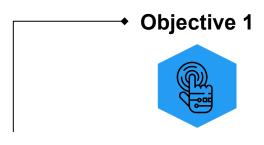
Data cleaning and organization to handle missing values, outliers, or

inconsistencies

Explore the data to gain insights, identify patterns, and understand the main characteristics of the dataset.

Interpret the results of the analysis in the context of the project objectives.

### **Objectives**



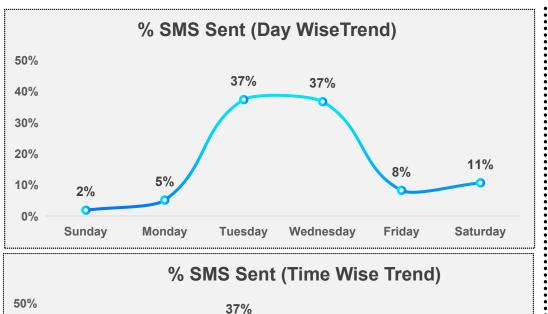
 To determine the optimal times of day and days of the week to send SMS messages to maximize Payments

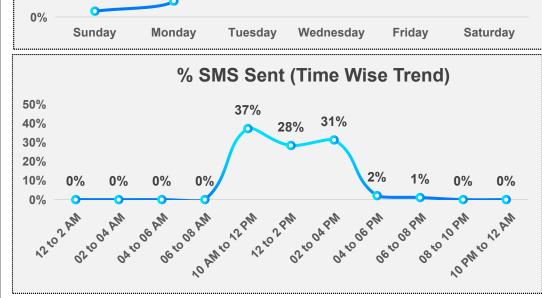
#### **SMS Trend Analysis**



 To determine the optimal times of day and days of the week to send SMS messages to maximize Portal visits

# **% SMS Sent Trend Analysis**





## Insights:-

1. In day wise trend, we observe that a combined total of 74% of our SMS

Wednesdays.

2. Based on time wise trend, we are currently sending a total of 96% of our SMS messages

communication occurs on Tuesdays and

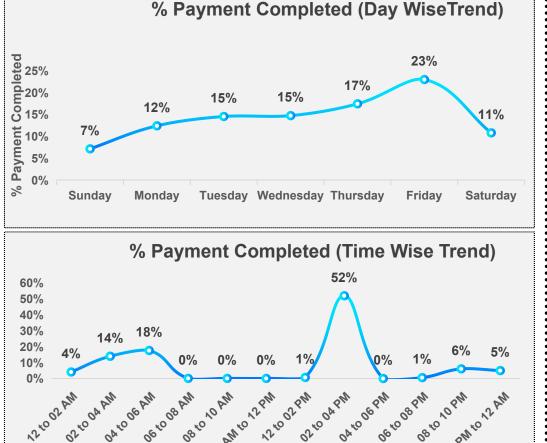
between the hours of 10 am and 4 pm.3. Out of the entire dataset, only 38.1% of the SMS messages are successfully getting

#### #Note:

- 1. These charts depict trends specifically focused on successfully "delivered" SMS messages.
- 2. Analysis is done considering IST timezone.

delivered to the customers.

# **% Payment Completed Trend Analysis**



## Insights:-

of payment entries.

1. When analyzing the daily trends, we notice that a cumulative 70% of payments are made between Tuesdays and Fridays, with Fridays

accounting for the highest proportion at 23%

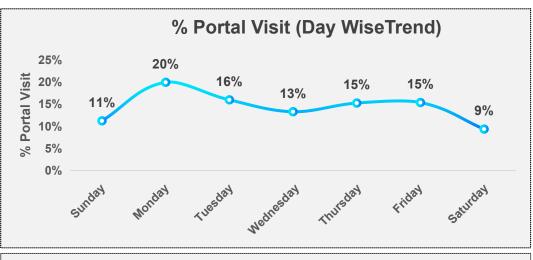
- 2. According to the time-wise trend analysis, we are receiving 52% of payment entries between 2 PM and 4 PM.
- 3. As per the Payment Log dataset, we've managed to receive just 13.3% of the payments successfully.

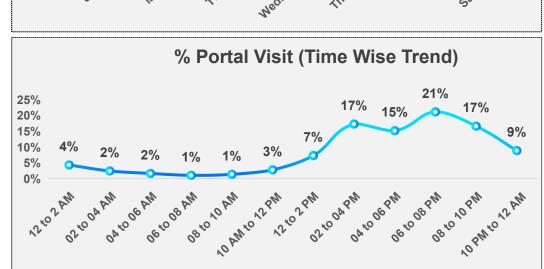
### #Note: 1. These charts denict trends speci

- 1. These charts depict trends specifically focused on "TRUE" payment entries.
  - focused on "TRUE" payment entries.

    2. Analysis is done considering IST timezone.

# **% Portal Visits Trend Analysis**



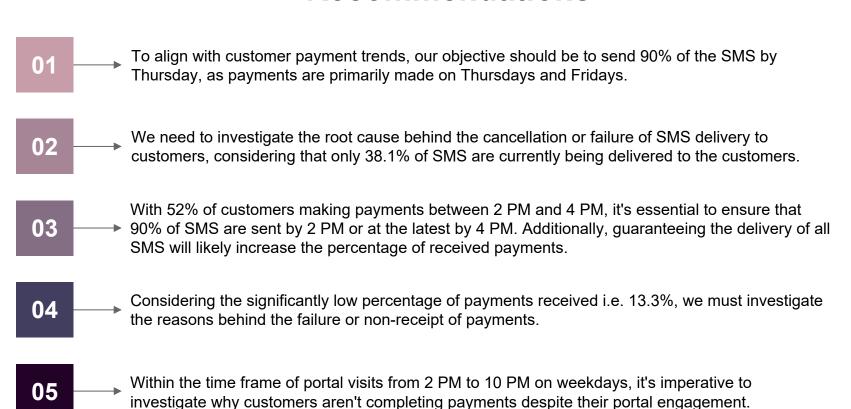


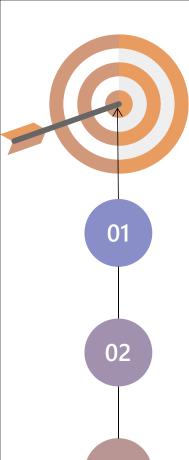
## Insights:-

- 1. When examining the trends by day, we note that portal visits are nearly evenly distributed, with Mondays showing the highest number of customer visits (20%).
- 2. Throughout Monday to Friday, a cumulative 79% of customers engage with the portal.
- 3. Based on the time-wise trend analysis, it's apparent that the 70% of customer visits to the portal occur between 2 PM and 10 PM.

#Note:
1. Analysis is done considering IST timezone.

#### Recommendations





#### Conclusion

To maximize payments, it's advisable to send SMS messages between Tuesday and Thursday, particularly from 10 AM to 4 PM. This aligns well with the fact that most payments are made on Thursday and Friday, predominantly between 2 PM and 4 PM.

The number of SMS sent in a week does not show any correlation with portal visits throughout the week. Customer portal visits remain evenly distributed from Monday to Friday, regardless of the days when SMS messages are sent.

To enhance portal visits, the optimal time to send SMS should be from 2 PM to 12 AM throughout the week, aiming to boost customer engagement on the portal.

# Thank You!