

Final Project - 4

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AGENDA

1 Problem Statement

02

Tech-stack used

03

Insights and Approach

04

Results & Recommendations

01 Problem Statement

- A Customer Experience (CX) team in a company aims to analyze customer feedback and data, derive insights from it, and share these insights with the rest of the organization.
- The CX team of ABC Insurance company is experiencing high customer engagement and facing difficulties to manage their customer calls.
- There are struggling to understand the trends and patterns of incoming customer calls, resulting in 30% of calls being rejected.
- As a data analyst, I am aiming to analyze their data set, find call volume trends and propose a manpower plan.



02 Tech-Stack Used







Capcut

03 Insights

Q1. What is the average duration of calls for each time bucket?





- Average duration of calls is 199 secs considering entire day
- **Approach:** Pivot table is used to find out average duration for each time bucket. Data is filtered to 'answered' calls only.
 - > Click to view the Excel Project file



Q2. Call Volume: Number of calls received in each time bucket?



- ✓ 11 am-2 pm is the busiest 3 hours in an entire day
- ✓ Highest number of calls is received during 12 pm-1 pm with 9432 calls

Approach: Used Pivot table and Column chart to prepare this result. Data is filtered based on 'Answered' calls only



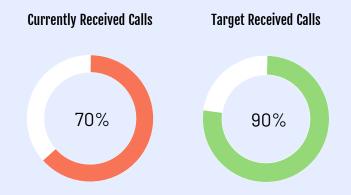




Q3. What is the minimum number of agents required in each time bucket to reduce the abandon rate to 10%?

Current Numbers

Working Days: 23



Hourly Calls Received/ Agent: 18

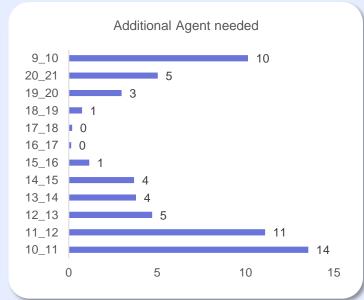
Assumptions	Values 🔻
Actual working hours of agents	7.5
% of time spend in calls	60%
Total Actual working hours	4.5
Total Actual working in seconds	16200
Average duration of received calls(in seconds)	199
No of calls received by 1 Agent	81
No of calls received by	
1 Agent in 1 hour time bucket	18

Manpower Planning



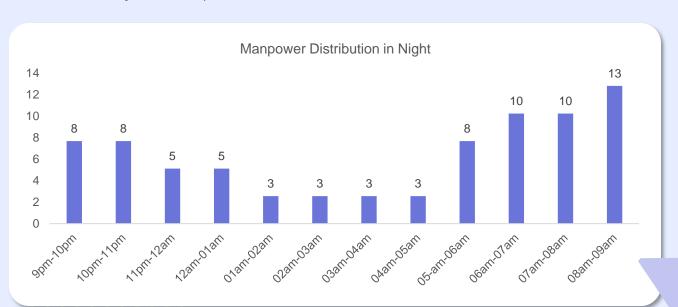
• 9am-10am and 10am-11am are two time slots that require the most number of new agents.





Q4: Manpower planning for night, to maintain abandon rate at 10%.

- Early morning time i.e. 6 am-9 am requires more agents to improve customer service.
- A total of 33 agents are required to reduce abandoned calls in these time slots.





MANPOWER PLANNING FOR ENTIRE DAY





04 Results and Recommendations

- It is found that less number of agents are active during the 9 am – 11 am time bucket. It could be because some agents are coming to the office late or agents are being busy with other tasks
- A considerable amount of customers calling during the night, may be because of different time zone. To improve customer experience globally, at least 77 employees should be recruited.
- Also management can influence the existing agents to change their shift by giving them extra perks like free dinner or extra night shift allowance etc.







Thank You



