

BZJ Datathon Solutions

Presenters: Brian Eide, Zhehong Lim, Jiaqi He

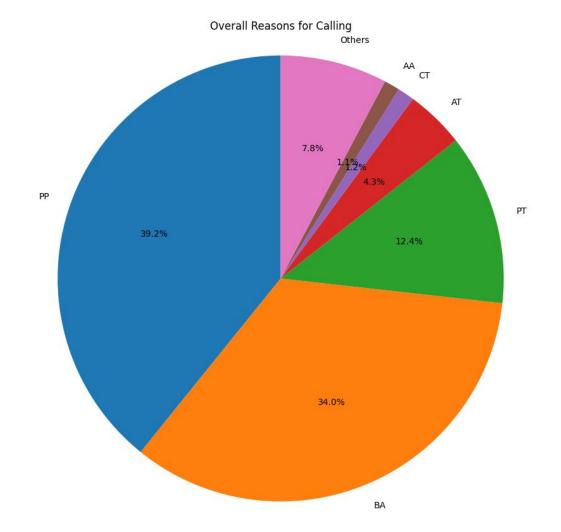
Table of Contents



- 1. Overview
- 2. Retailer Investigation
- 3. Repeat Call Analysis
- 3. Suggestion 1
- 4. Suggestion 2



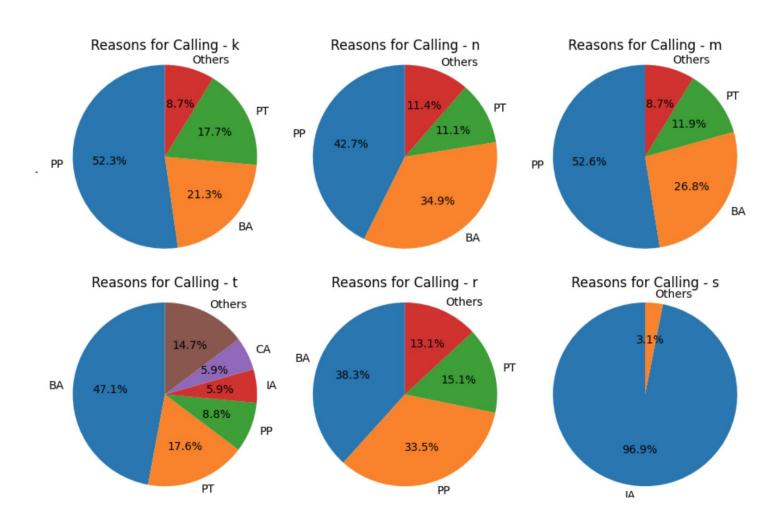
Overview





Background info

 Top reasons for calling are PP, BA, and PT

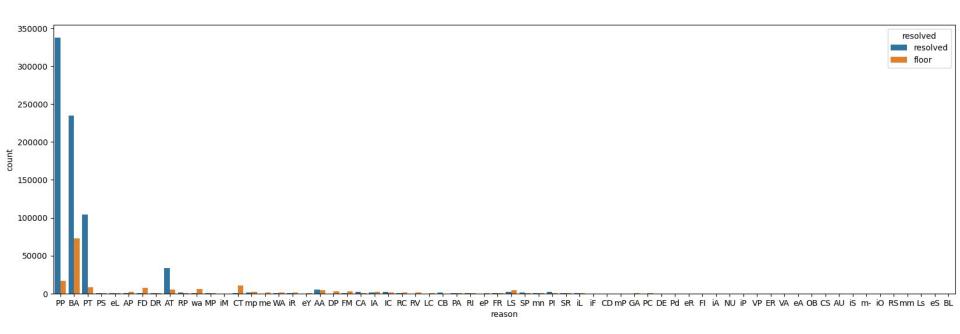




Some retailer has different patterns

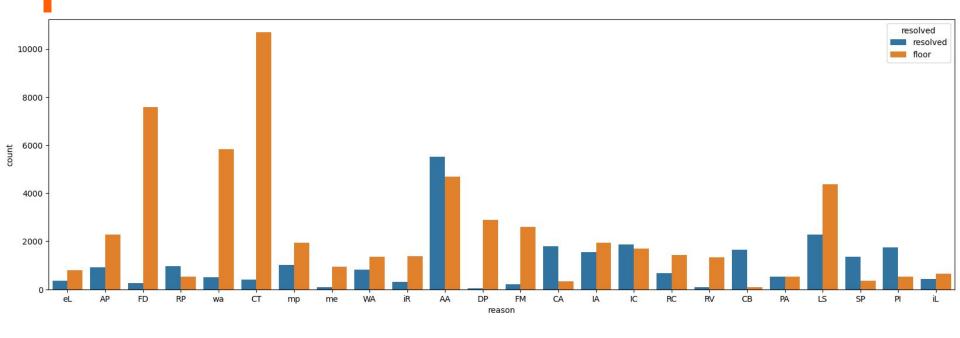


'PP', 'BA', 'PT' standing out as the most common unsolved issues.











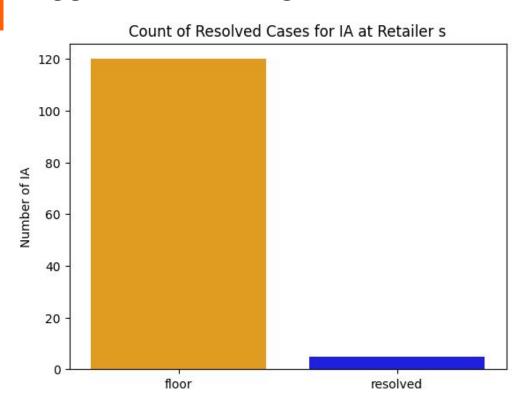
Retailers Investigation



All the clients of retailer 's' enter the floor



Suggestion: investigate in retailer 's'



It is evident that the number of unresolved cases (denoted by 'floor') significantly outweighs the number of resolved cases (denoted by 'resolved').



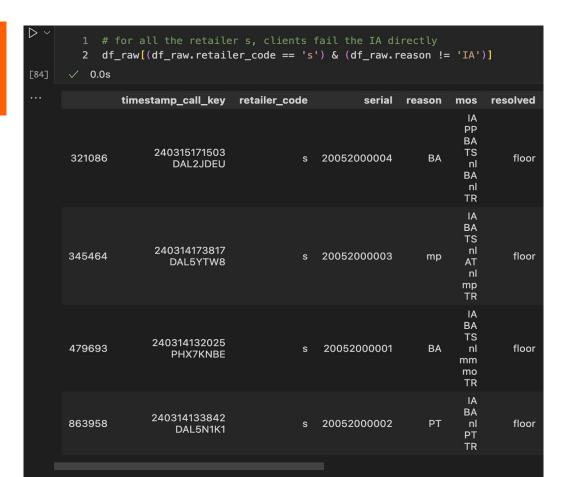


2 df_raw[(df_raw.retailer_code == 's') & (df_raw.reason == 'IA') & (df_raw.resolved == 'resolved')]														
√ 0.2s	√ 0.2s													
	timestamp_call_key	retailer_code	serial	reason	mos	resolved	no_of_accounts_with_syf_13_							
362696	240317120122 DAL43KTK	s	20042000112	IA	IA TR	resolved								
402205	240317111512 PHX3ARQW	s	20042000108	IA	IA TR	resolved								
419705	240317110222 DAL1SDMM	s	20042000106	IA	IA TR	resolved								
668002	240316124115 DAL2VVJ3	s	20042000091	IA	IA TR	resolved								
798061	240315174358 PHX7CG2V	s	20042000059	IA	IA TR	resolved								



Most client in retailer 's' go to the floor for IA

√ 0.7s								
	timestamp_call_key	retailer_code	serial	reason	mos	resolved	no_of_accounts_with_syf_13_march	account_balance_13_march
22812	240316084433 PHX6FUNR	s	20042000076	IA	IA TR	floor	2.0	1397.8000
32620	240314202935 DAL31HEB	s	20042000024	IA	IA TR	floor	1.0	401.5400
34344	240315205412 PHX42LSG	s	20042000069	IA	IA TR	floor	8.0	465.9886
39371	240314135428 DAL2RA7L	s	20042000013	IA	IA TR	floor	4.0	396.3400
48670	240315131828 PHX67E4T	s	20042000038	IA	IA TR	floor	1.0	1743.0700
875962	240314083510 DAL4CB21	s	20042000001	IA	IA TR	floor	1.0	276.1700
877252	240315223153 PHX5BPDH	s	20042000071	IA	IA TR	floor	2.0	581.3478
886204	240316120017 PHX3JHIO	s	20042000088	IA	IA TR	floor	4.0	307.6500
890888	240315134523 DAL3LMN3	s	20042000041	IA	IA TR	floor	1.0	189.9200
891266	240315141503 DAL1FWGL	s	20042000049	IA	IA TR	floor	10.0	90.4400





All the cases which reason is not IA still need to go to floor



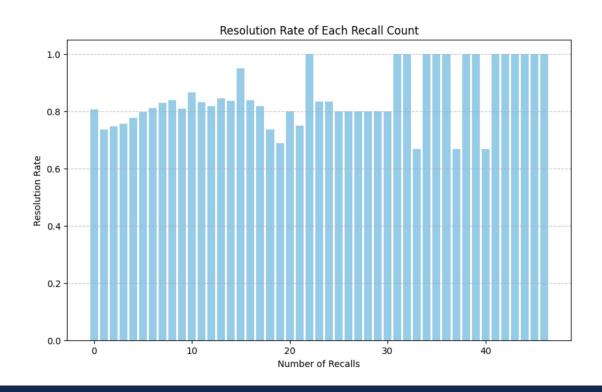
Suggest: company investigate in retailer 's' more



Repeat Caller Analysis

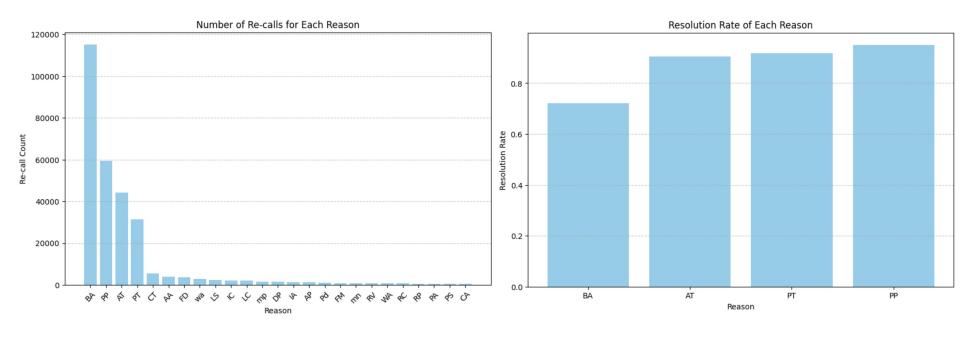


Do repeat callers often transfer to the floor?

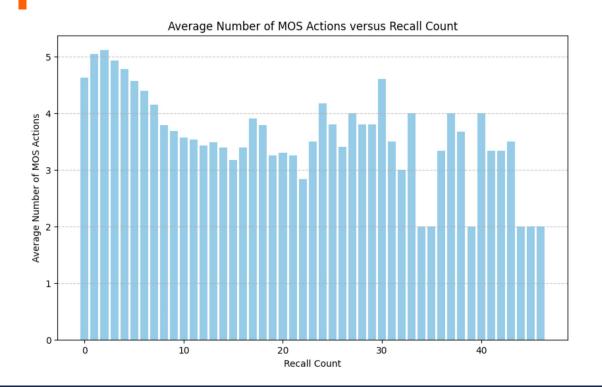


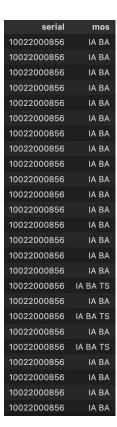


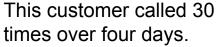
Which call reasons see the most repeat callers?



Repeat calls are often simple requests









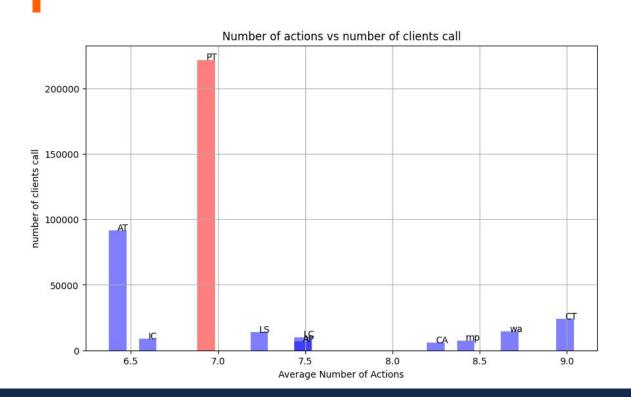


Suggestion 1

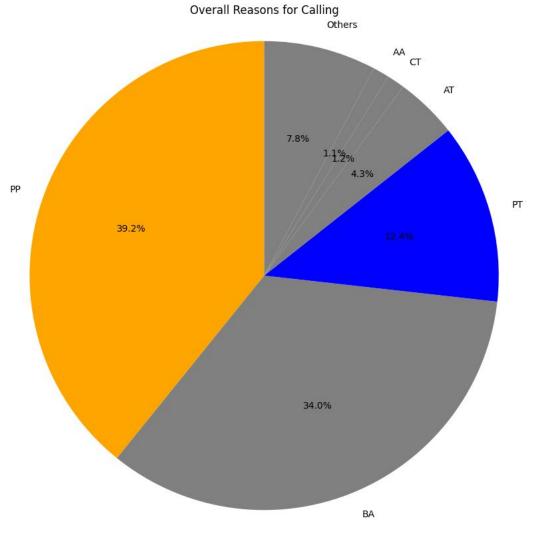
Add Payment section of IVR



Goal: Reduce number of actions









High percentage of PT and PP Worth changing



Not Effective Use of mp(menu of payment)

0.20161745260241085

Most of clients did not enter menu of payment when redirecting to payment transfer.



Suggest: Adding a payment section when customers connect to IVR

Advantage:



• Enhanced Customer Convenience:

A clearer structure, reduce clients' actions to resolve their needs

Improved Cash Flow:

Prompt payment options can lead to faster collections and improved cash flow for the business.

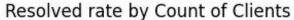
Data Collection for Service Improvement:

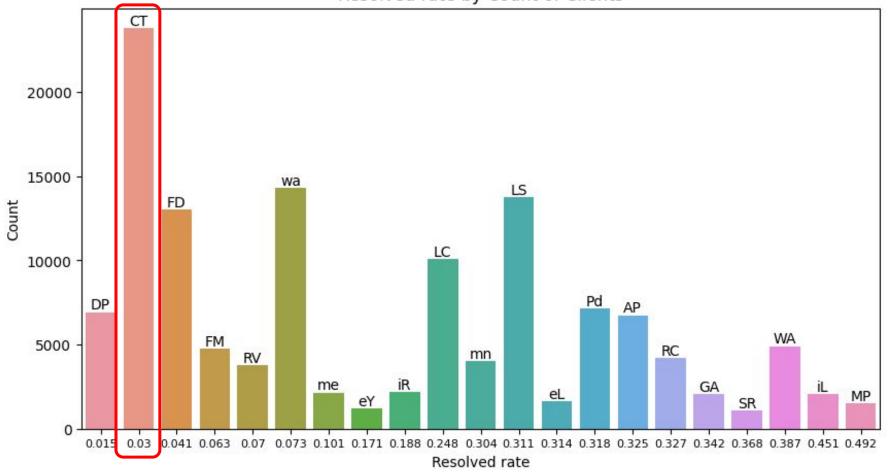
Payment interactions can provide valuable data, which can be analyzed to further improve the IVR system and customer experience.



Suggestion 2

Additional Complaint Channels / Direction to the channels in IVR



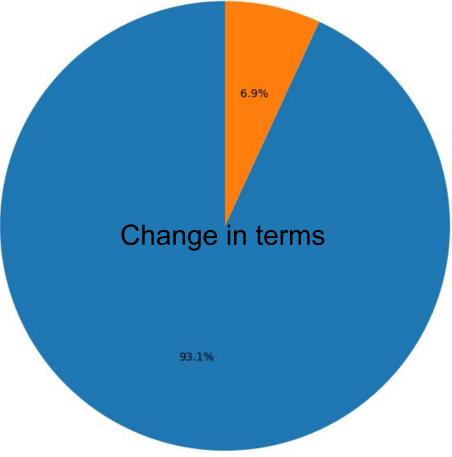




Change in terms always direct to transfer











Complaint Channels

E.g.
Online Complaint Portal
Text Complaint

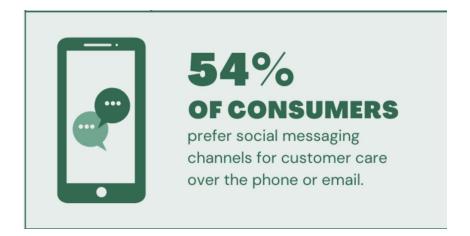
Direct to Channels in IVR

Add a function of choice: directing to other complain channels

Provide the choice when detecting a CT







Achieve a 3% reduction in agent resource allocation

```
1 len(df_raw[(df_raw.reason == 'CT') & (df_raw.resolved == 'floor')]) / len(df_raw[df_raw.resolved == 'floor']) * 0.5

    0.2s
```

0.03151410229454121

Advantage



Streamlined Process

simplifies the submission process allows consumers to easily and quickly report issues without waiting in call queues

• 24/7 Availability

flexibility to report issues at any time

Better for development

leverage insights from complaints

Cost Efficiency

Handling complaints through online or text platforms can reduce operational costs associated with floors, such as staffing and telephony expenses.



Thank you!