



# Sit, Stay, Subscribe

## Addressing Subscriber Churn for Ted & Poppy

### Overview

- Worrying subscriber churn since rapid expansion into international markets
- Goal to increase retention, using advanced analytics to target customers likely to unsubscribe

Dataset\* Q4-2024

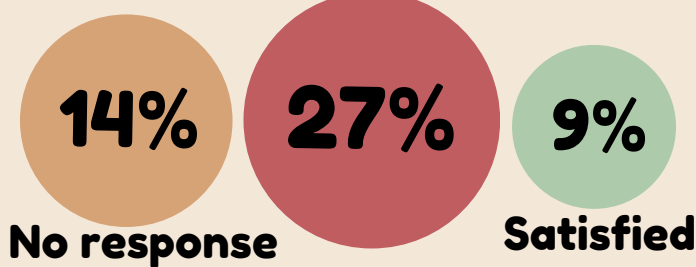
200,000 customers  
29 variables

\*The data used for this project was synthetically generated

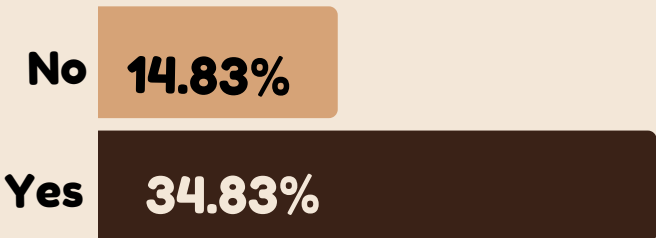
CHURN RATE  
15.9%  
in Q4 2024

### Satisfaction Survey

Dissatisfied



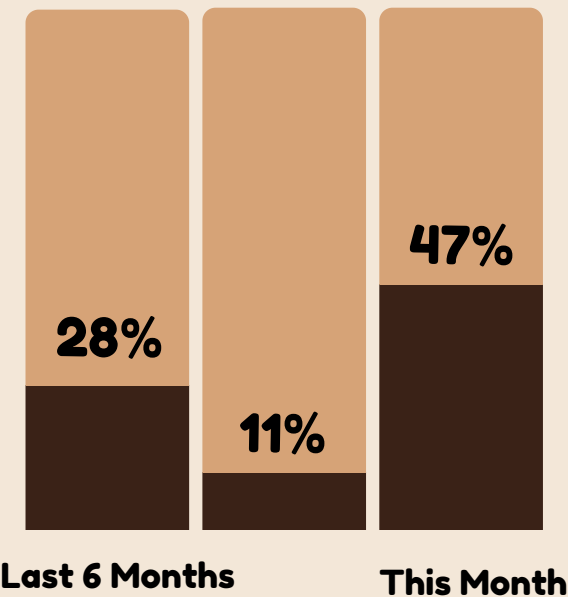
### Sub. Payment Problem



### Insights for Churn

#### Support Ticket

Not in Last 6 Months

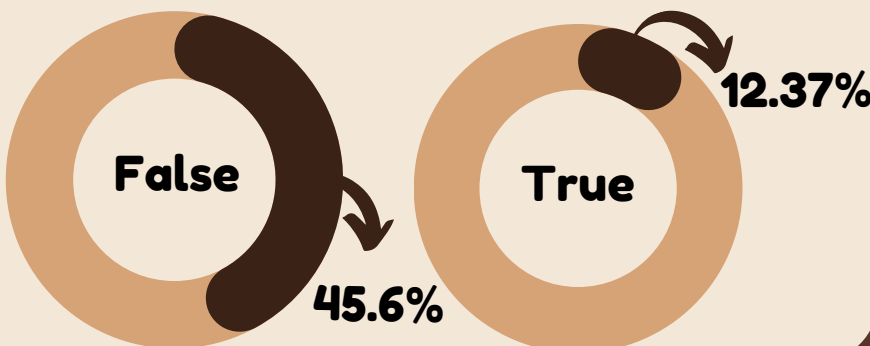


False

True



#### Web Purchase



Got any treats?



Data Manipulation

Variable Selection

Classification Modelling

Feature Importance

Predict & Recommend

### Assumptions

Independent & Identical Distribution

Cutoff value = 0.5

Binary dependent variable  
(Retention)

### Data Preparation

Data Split

75:25 Training to Test

Preliminary Insights

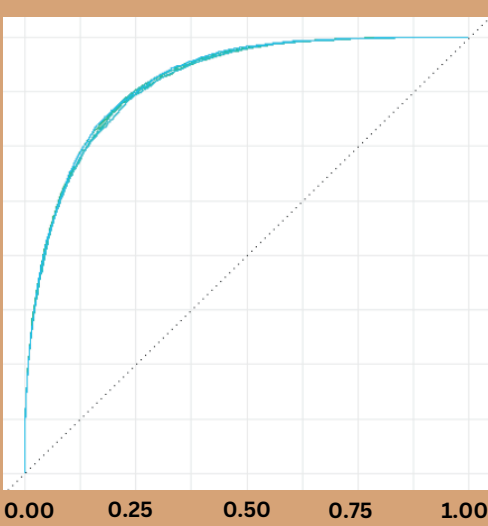
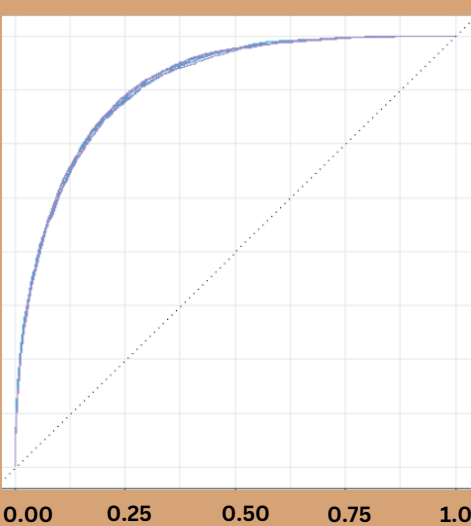
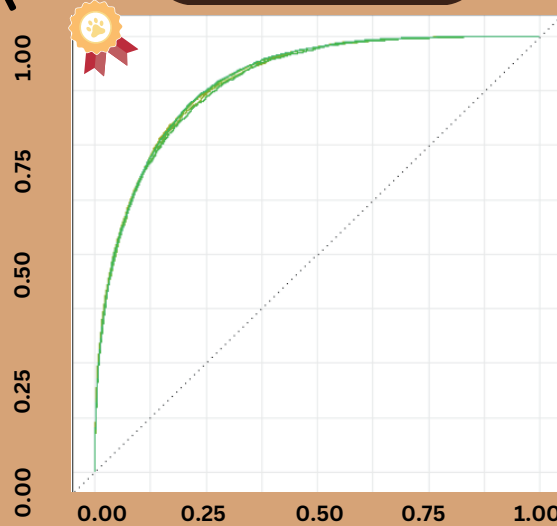
Select variables of interest

Top dog!

LightGBM

Random Forests

Logistic



Accuracy  
Sensitivity  
Specificity

0.801  
0.827  
0.796

0.860  
0.624  
0.904

0.811  
0.816  
0.811

### Final Performance(LightGBM)

0.796 Accuracy  
0.830 Sensitivity  
0.427 PPV  
0.896 ROC AUC

True Positive

13%

False Positive

18%

False Negative

3%

True Negative

66%

## Recommendations

### Put Feature Importance here!

Support Ticket Raised

Web Purchase

Satisfaction Survey

Discount Coupon

Sub. Payment Problem

### Initiate an urgent customer experience improvement project



Improve customer support by implementing a new Customer Services system, with a dedicated team to handle payment issues



Drive website engagement with exclusive discounts, limited time offers, and retention incentives like rewards points



Conduct sentiment analysis to understand pain points and create action plans to address them