

SYRIATEL CUSTOMER CHURN ANALYSIS

DATA DRIVEN INSIGHTS FOR CUSTOMER LOYALTY

BY

VICKY GAKUO

CORE OBJECTIVE: IDENTIFY RISK, PRESERVE REVENUE

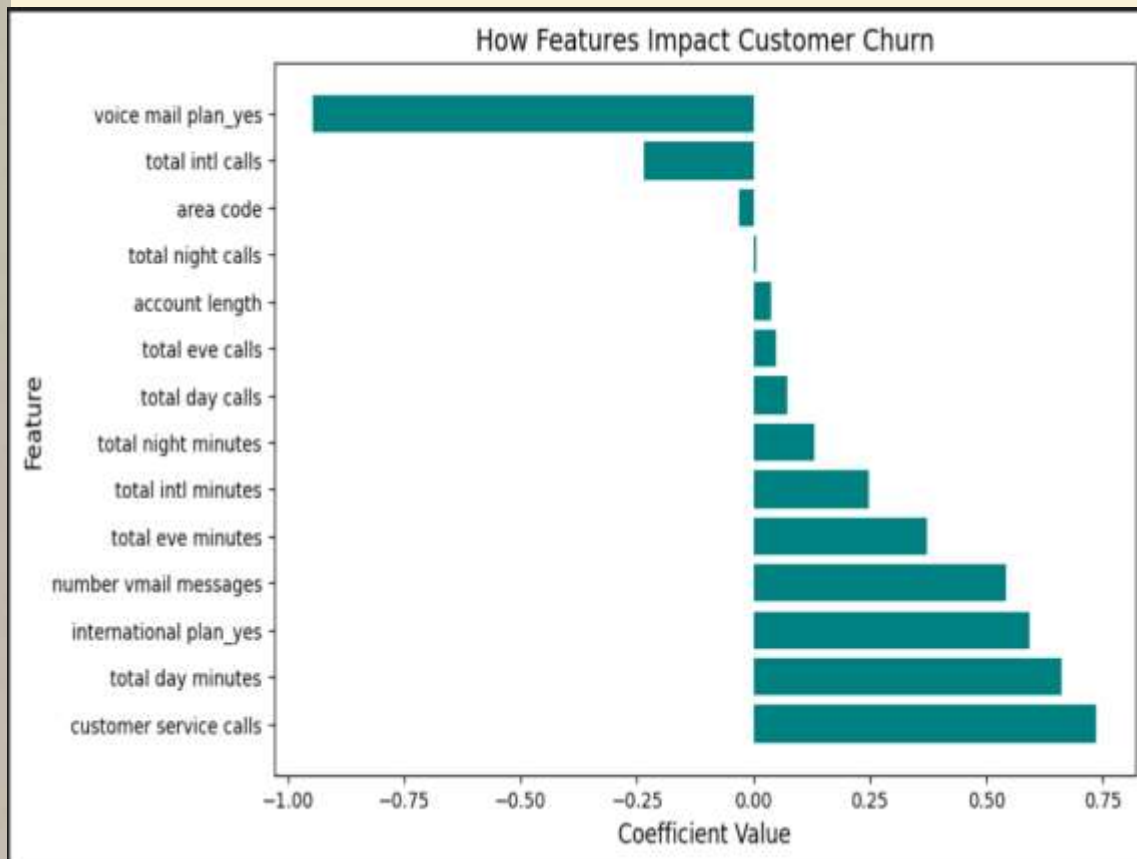
- **Objective:** The aim is to focus on identifying the specific customer behaviors and service friction points that result in account cancellations (churn).
- **Goal:** To provide a set of data-driven recommendations designed to help SyriaTel proactively intervene and retain high-value customers.

ANALYZING SYRIATEL DATA

- **SOURCE:** SyriaTel Customer Churn Dataset (Cleaned and Feature-Engineered).
- **METRIC:** The primary risk measure is Target Recall (Churn). This measures the model's actual success in catching at-risk customers before they leave, rather than just looking at overall accuracy.

ANALYSIS AND KEY FINDINGS

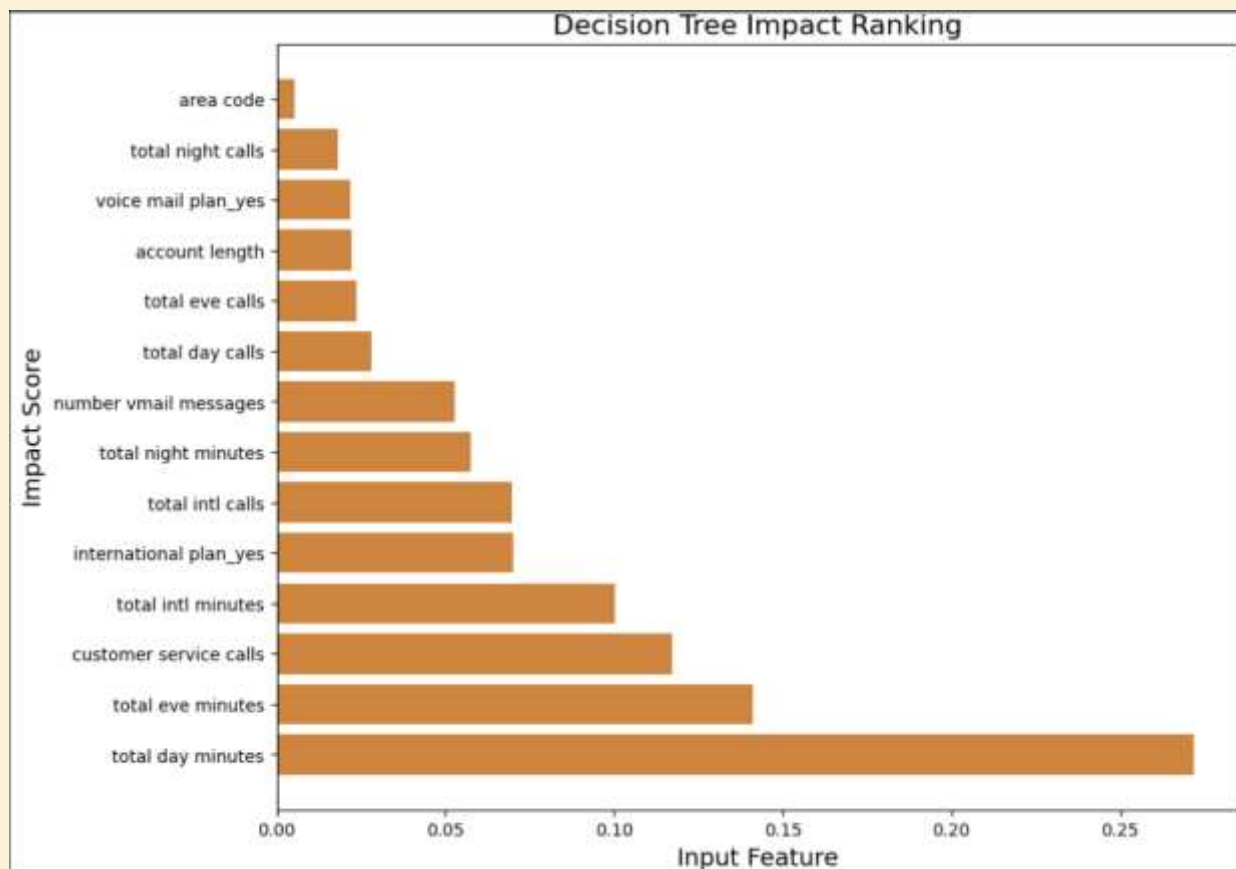
FINDING 1: THE SERVICE INTERACTION BREAKING POINT



•**Observation:** Customer churn risk is most heavily influenced by the volume of Customer Service Calls.

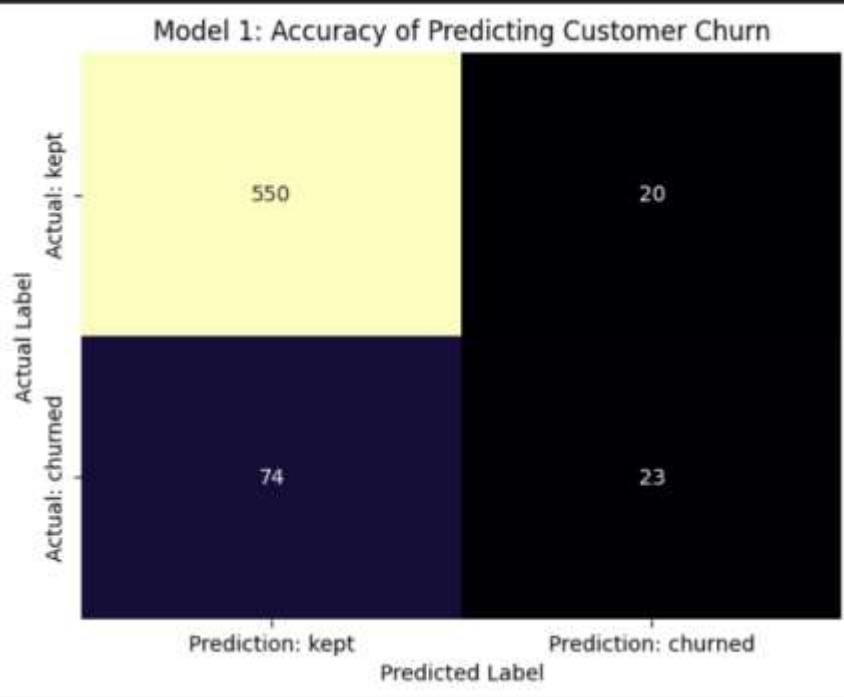
•**Statistics:** This feature emerged as the strongest positive predictor of churn. Each additional call represents an unresolved friction point that exponentially increases the probability of a customer leaving.

FINDING 2: THE HIGH-USAGE ATTRITION RISK



Observation: There is a high-volume risk associated with total day minutes

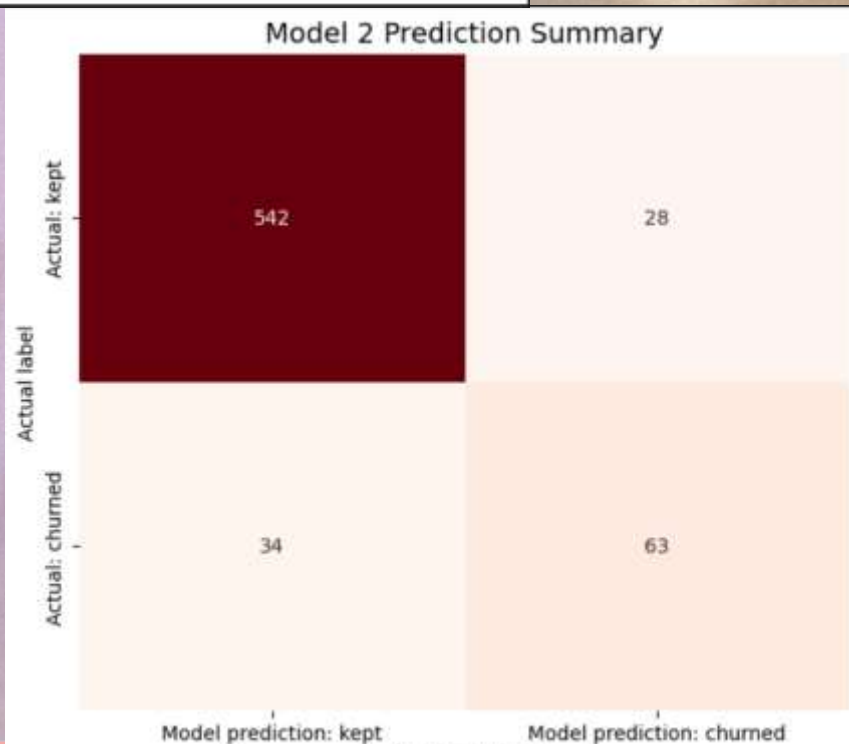
Statistic: SyriaTel most active daytime users are most likely to churn.



FINDING 3: MODEL OPTIMIZATION SUCCESS

Observation: The baseline Logistic Regression model suffered from an accuracy trap missing most of the at-risk customers.

Statistics: By switching to the Decision tree model, Recall improved from 24% to 65%.m



RECOMMENDATIONS

(ACTIONABLE STRATEGY)

PROACTIVE SERVICE INTERVENTION

Action: Call an automated Loyalty Outreach to any customer with more than 3 service interactions in one billing cycle.

This will eliminate friction before the customer achieves the breaking point that was established in the data.

HIGH-VALUE RETENTION

Action: Develop a special loyalty program to top volume daytime users (Top 10% of Day Minutes).

Competitive pricing is directed to the particular group who is most likely to find better rates elsewhere.

MODEL DEPLOYMENT

Action: Embark the Decision Tree classification logic into the CRM.

Guarantees the marketing team concentrates funds on the 65% of the clientele who are actually at risk, as opposed to expenditure on the loyal accounts.

CONCLUSION

To sum up, these evidence-based recommendations will enable SyriaTel to shift to retention instead of damage control, which will greatly reduce the risk of losing high-value accounts.

THANK YOU