

▶ Project Overview

✓ Objective:

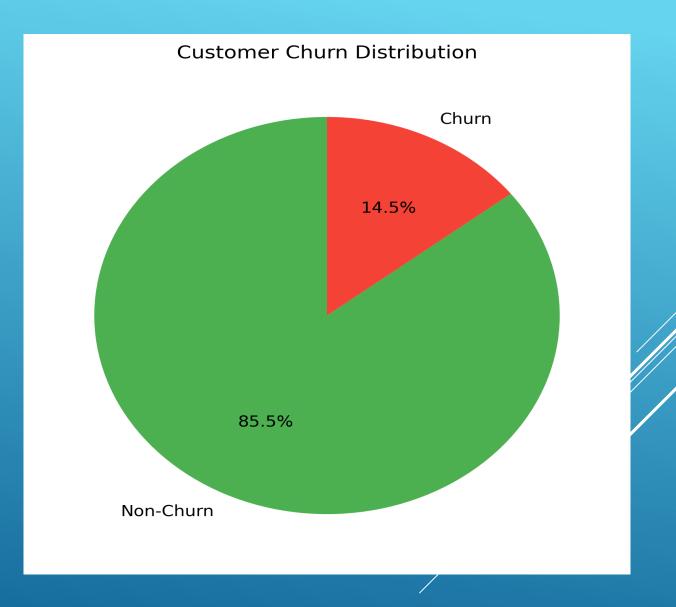
Identify customers likely to leave our telecom service so we can retain them.

✓ Why it matters:

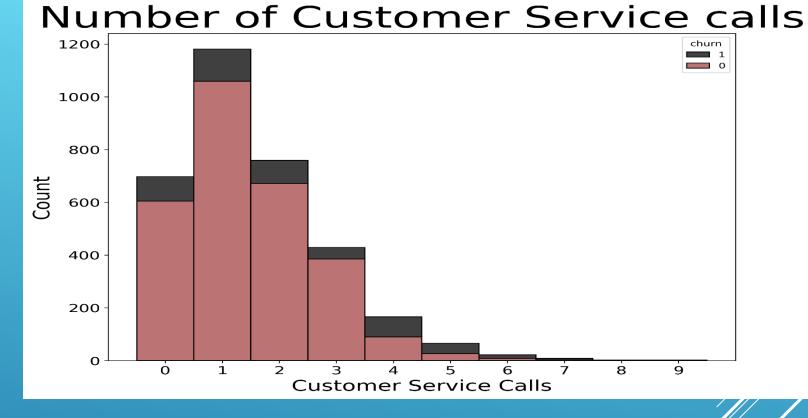
Losing customers reduces revenue and increases the cost of acquiring new ones.

Business Context & Data

- Retaining customers Is critical for profitability.
- We analyzed customer account details, service usage, monthly charges, service subscriptions, and interactions with customer support
- ✓ About 15% of customers have already left, showing the need for proactive retention strategies.



Why Predict Churn?



- > Goal: Predict which customers are at risk before they leave.
- Benefit: Allows targeted retention actions, such as personalized offers, improving loyalty and revenue.
- > Think of it as a "risk score" for each customer.

Model Results

Model

Logistic Regression

Decision Tree

Random Forest

Ability to Identify At-Risk Customers

5 out of 10 churners correctly identified

8 out of 10 churners correctly identified

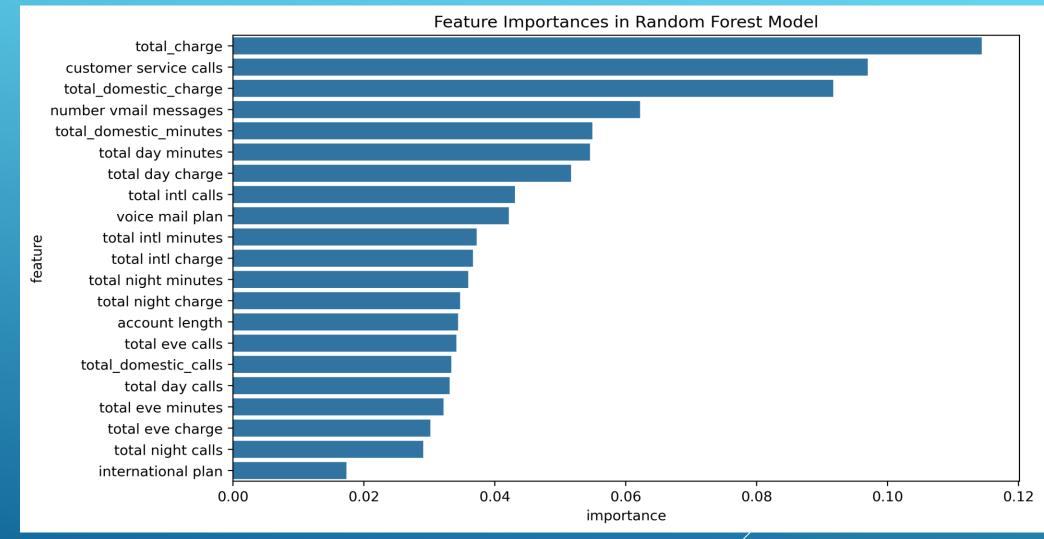
8–9 out of 10 churners correctly

identified

✓ Random Forest Is our best model which identifies most customers likely to leave, helping the company act early.

Key Drivers of Churn

- High tota charges
- Frequent calls to customer service
- Service usage



Business Recommendations

- 1. Focus on high-spending customers and frequent support callers: Offer personalized retention deals.
- 2. Encourage value-added services: Promote voicemail or international plans to strengthen loyalty.
- **3. Improve customer support**: Proactively resolve issues for atrisk customers.

Next Steps

- ✓ Integrate risk prediction into customer management systems.
- ✓ Monitor and update the model regularly with new data.
- ✓ Run targeted campaigns for customers identified as high risk.
- ✓ Explore additional approaches to improve prediction accuracy.

Thank You

Contact

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