SyriaTel Churn Analysis

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Flatiron School Phase 3 F

Flatiron School Phase 3 Project

Why I'm Here

Too Many Customers Leaving!!

What Factors are Causing them to leave?

What can be done to minimize Customer Turnover?

Plan of Attack

1

Analyze Recent Data. 2

Find Areas with Increased Churn Rate. 3

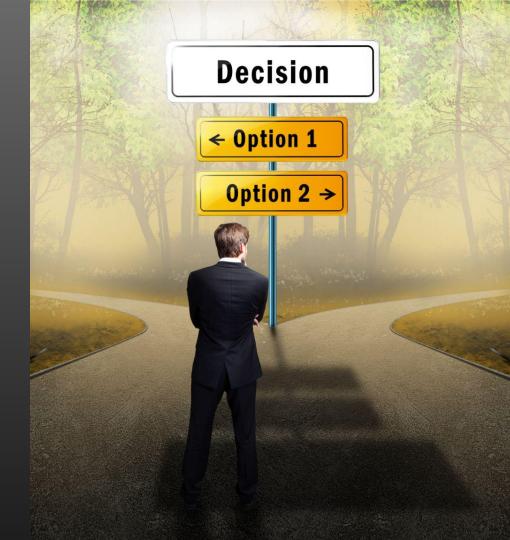
Make Recommendations

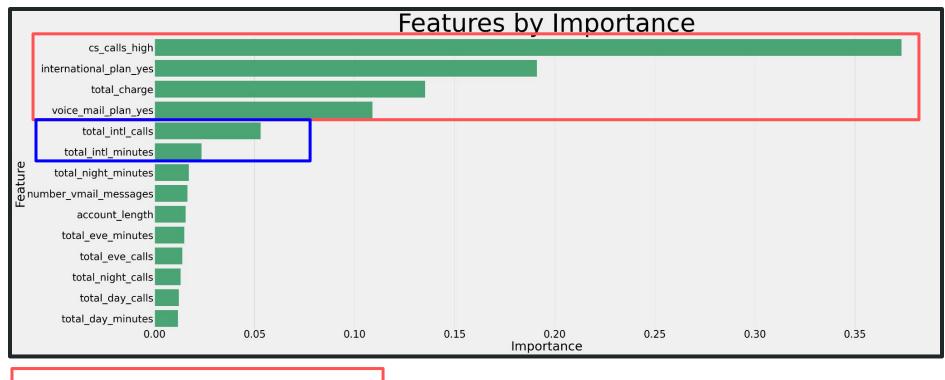
14.49%

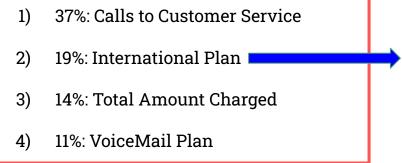
Percentage of Customers that Left SyriaTel.

What I Did with the Data

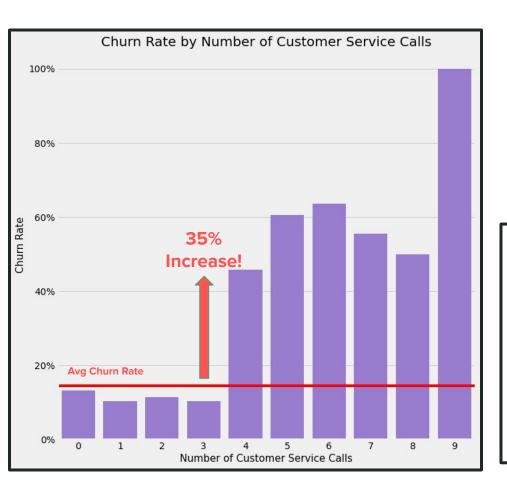
- 1) Initial Exploration
- 2) Cleaning
- 3) Modeling through Decision Trees.
- 4) Analyzed where churn rate was significant.
- 5) Recommendations







- 5) Total International Calls 6) Total International Minutes



Most Important Feature: Number of Customer Service Calls

Churn Rate at 3 calls = 10.25%

Churn Rate at 4 calls = 45.78%

50% of customers only make 0-1 Customer Service

Recommendation #1: Increased Focus on Customer Service.

#2 Most Important Feature: International Plan



Only 323 people (9.5% of customers) have international plans.

Churn Rate for those Customers is 42.4%

Churn Rate for customers without the plan is 11.5%

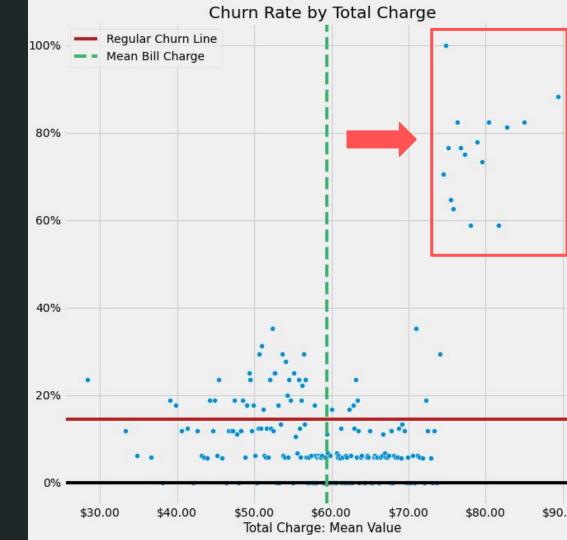
31% INCREASE!!!

Recommendation #2: Rethink Your

International Plan.

#3 Important Feature:

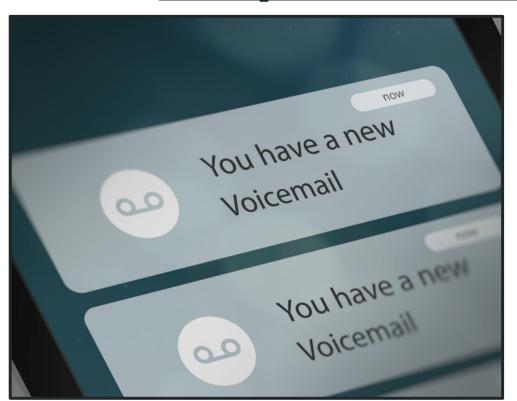
Total Amount Charged



Recommendation #3: Consider a Flat Price Model to Keep Customer Charges

Consistent

#4 Important Feature: VoiceMail Plan



Customers with VoiceMail: 8.6% Churn Rate

Customers without VoiceMail: 17.6% Churn Rate

9% Increase

to Get a VoiceMail Plan

Recommendation #4: Encourage Customers

Identification System

Recommendation #5: Set Up a Churn Risk



1

NORMAL RISK

0-1 CUSTOMER SERVICE CALLS

CUSTOMER HAS VOICEMAIL PLAN

2

RISK INCREASING

2-3 CUSTOMER SERVICE CALLS

customer has international plan

3

HIGH RISK

4 or more customer service calls

You will always have Churn.

BUT, if you know what to look for, and are proactive in dealing with it, you WILL lower your churn rate.

Recommendations

- #1: Increased Focus on Customer Service.
- #2 Rethink Your International Plan.
- #3 Tiered Flat Price Model
- #4 Encourage Customers To Get VoiceMail Plan
- #5 Set Up a Churn Risk Identification System

Questions?