SYRIATEL CUSTOMER CHURN PREDICTION

A Data-Driven Strategy for Customer Retention

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EXECUTIVE SUMMARY

The Business Challenge

- Customer churn directly impacts SyriaTel's revenue
- Current approach: Reactive we respond after customers leave
- Proposed solution: Proactive identify at-risk customers before they churn
- Goal: Target retention efforts efficiently to save high-value customers

DATA ANALYSIS FOUNDATION

Data Sources Analyzed:

- 3,333 customer accounts with complete history
- Call patterns across different times of day
- Service plan details and account information
- Customer service interaction history

Key Insight:

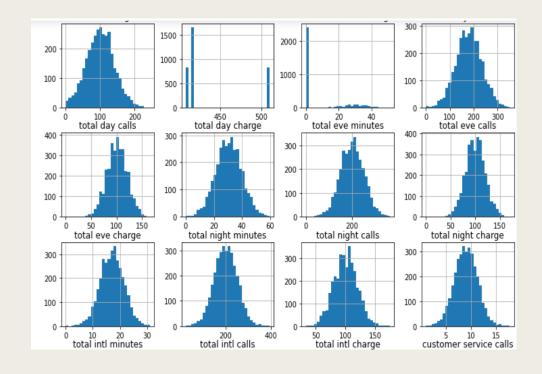
Patterns in customer behavior can predict future churn decisions

	state	account length	area code		international plan	voice mail plan	number vmail messages	total day minutes	-	total day charge	
0	KS	128	415	382- 4657	no	yes	25	265.1	110	45.07	
1	ОН	107	415	371- 7191	no	yes	26	161.6	123	27.47	
2	NJ	137	415	358- 1921	no	no	0	243.4	114	41.38	
3	ОН	84	408	375- 9999	yes	no	0	299.4	71	50.90	
4	OK	75	415	330- 6626	yes	no	0	166.7	113	28.34	
5 rows × 21 columns											

KEY RISK INDICATORS IDENTIFIED

What Predicts Customer Churn?

- International plan subscribers = 3x
 higher churn risk
- 4+ customer service calls = Strong churn indicator
- Specific call usage patterns = Early warning signs
- Account tenure characteristics =
 Retention opportunities



THE PREDICTION SYSTEM

How the Churn Prediction Works

- Simple 3-Step Process:
- Analyze Review customer behavior patterns
- Score Assign risk level (Low/Medium/High)
- **Prioritize** Flag customers needing immediate attention
- Business Benefit:
 Enables targeted retention instead of blanket approaches

MODEL PERFORMANCE

Proven Accuracy & Reliability

Performance Results:

- 80% Accuracy Identifies 4 out of 5 future churners
- Low False Alarms Minimal wasted effort on happy customers
- Reliable Ranking Correctly prioritizes by risk level

■ Translation for Business:

Your team can act on these predictions with confidence

ACTION PLAN & RECOMMENDATIONS

Immediate Implementation Strategy

- Priority 1: High-Risk Customer Outreach
 - Target top 20% highest-risk customers first
 - Personalized retention offers based on usage patterns
 - Dedicated service follow-up for frequent callers
- Priority 2: Resource Optimization
 - Reallocate 30% of acquisition budget to retention
 - Train service team on at-risk customer handling
 - Develop tiered response system

EXPECTED BUSINESS IMPACT

Transforming Customer Retention

- Short-Term Benefits (3-6 months):
 15-25% reduction in customer churn

 - Improved marketing campaign ROI
 Better resource allocation for retention team
- Long-Term Advantages:Increased customer lifetime value
 - Stronger competitive positioning
 - Data-driven culture for customer decisions
- Next Steps:

 - Approve 3-month pilot program
 Begin dashboard development
 Schedule team training sessions

Thank You

Safeguarding your Customer Base

I have developed a powerful, data-driven tool to proactively protect your revenue and strengthen customer loyalty.

Questions? Contact me:

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