

Summary and Recommendation

Objective: To analyze customer churn patterns, uncover key drivers influencing retention, and provide actionable strategies for reducing churn, improving customer satisfaction, and fostering long-term loyalty through data-driven decision-making and targeted interventions.

Key Insights:

1. Customer Churn Rate:

- The churn rate is **26.54%**, indicating that over a quarter of customers are leaving.
- Analysis of tenure data reveals a clear trend: customers with service durations of **1–2 months** are **50% more likely to churn** compared to those with longer tenures.
- Conversely, customers with tenures exceeding **24 months** exhibit a churn rate of less than **10%**, highlighting the strong correlation between customer loyalty and tenure length.

2. Contract Types and Retention:

- Customers on **month-to-month contracts** account for approximately **85%** of total churned customers.
- In contrast, those on **1-year contracts** experience a churn rate of just **11%**, and for **2-year contracts**, this drops further to **8%**.
- The flexibility of month-to-month contracts appears to contribute to churn, underscoring the importance of promoting long-term contracts.

3. Payment Method Analysis:

- Customers using **electronic checks** have a churn rate of **42%**, significantly higher than those using other payment methods.
- For comparison:
 - **Credit card payments** have a churn rate of **16%**.
 - **Bank transfers** and **automatic payments** average around **15%** churn rates, making them more reliable methods.

Recommendations:

1. Retention Strategies:

- Implement proactive retention measures during the first 2–3 months of customer onboarding, such as personalized outreach, discounts, or additional perks.
- Promote longer-term contracts by offering attractive discounts, benefits, or loyalty rewards to customers considering switching from month-to-month plans.
- Educate customers about the long-term cost savings and additional value associated with 1-year or 2-year contracts.

2. Payment Method Optimization:

- Review the electronic check payment process to identify and resolve potential usability issues or hidden costs.

- Encourage customers to switch to automated payment methods through incentives like small monthly discounts or bonus services.
- 3. **Customer Segmentation and Predictive Insights:**
 - Develop machine learning models to predict customers at risk of churn based on tenure, payment method, and contract type.
 - Focus retention efforts on high-risk segments such as new customers, month-to-month subscribers, and electronic check users.
- 4. **Customer Experience Improvements:**
 - Conduct surveys or feedback sessions to understand customer dissatisfaction points, particularly among short-tenure customers and electronic check users.
 - Provide seamless customer support to address issues early, reducing frustration and increasing satisfaction.

Supporting Data:

- **Tenure-Based Churn:**
 - **1–2 months: ~50% churn.**
 - **12–24 months: ~20% churn.**
 - **Over 24 months: ~10% churn.**
- **Contract-Based Churn:**
 - Month-to-month: **85% of churners.**
 - 1-year contracts: **11% churn.**
 - 2-year contracts: **8% churn.**
- **Payment-Based Churn:**
 - Electronic checks: **42% churn.**
 - Credit cards, bank transfers, and automated payments: **~15–16% churn.**