



Executive Summary: Telecom Customer Churn Analysis

This report explores customer churn behavior at a telecom company, analyzing key attributes and usage patterns. The objective is to identify actionable insights to reduce churn and enhance customer retention.



1. Overall Churn Overview

- Approximately **26.54% of customers** have churned.
 - This indicates **over 1 in 4 customers** are leaving, a critical concern for sustainable revenue.
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2. Customer Demographics

➤ Senior Citizen Status

- A **notably higher churn rate** is observed among **senior citizens** compared to younger demographics.
 - While seniors make up a smaller portion of the customer base, their **churn rate exceeds 40%**, suggesting targeted service strategies could mitigate this loss.
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3. Customer Tenure

➤ Short-Term vs Long-Term

- **Customers with tenure of 1–2 months** represent the **highest churn segment**, with over **50% churning** within this early period.
 - In contrast, customers who've stayed **longer than 2 years** show a **churn rate below 10%**.
 - ➤ **Interpretation:** The longer a customer stays, the less likely they are to leave. This highlights the importance of early engagement and customer onboarding.
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4. Contract Type

➤ Contract Duration & Churn

- **Month-to-month contract holders** have a churn rate of **over 40%**.
 - **One-year contract customers** show a churn rate of **11%**.
 - **Two-year contract customers** have the lowest churn at just **3%**.
 - ➤ **Recommendation:** Promote longer-term contracts through discounts and loyalty perks.
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5. Service Usage Patterns

➤ Add-On Services Impact

- **Higher churn rates** (over **30%**) are seen in customers **not subscribed** to the following:
 - **Online Security**
 - **Online Backup**
 - **Tech Support**
 - **Device Protection**
- In contrast, customers using these services churn at rates **under 15%**.
 - ➤ **Conclusion:** Offering bundled services or making these features more accessible may help reduce churn.

➤ Internet Type

- Customers with **fiber optic internet** show a **churn rate of ~42%**.
 - Those with **DSL internet** have a churn rate of around **18%**.
 - **Customers without internet service** have the **lowest churn (~8%)**, likely due to fewer service expectations or different use cases.
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6. Churn Driver Summary

Category	High Churn Segment	Churn Rate (%)
Senior Citizens	Yes	~40%
Tenure (0–2 months)	Yes	~50%
Month-to-Month Contract	Yes	~40%
Fiber Internet Users	Yes	~42%
No Add-on Services	Yes	~30–35%
2-Year Contract	No	~3%

Key Takeaways

1. **Early-stage churn** is a major risk—customers who don't stay past the first 2 months are more likely to leave.
2. **Long-term contracts** drastically reduce churn—strategies like bundling and annual discounts can help.
3. **Add-on digital services** (security, backup, etc.) improve stickiness—highlighting value-added upselling opportunities.
4. **Senior citizens and fiber internet users** require tailored retention strategies.