



Executive Summary – Telco Customer Churn Analysis

This analysis explores the factors driving customer churn for a telecommunications company using descriptive analytics and visual insights. The objective is to understand *who is churning, why they are leaving, and what business actions can reduce churn.*



Overall Churn Insight

- The dataset reveals that **26.54% of customers have churned**, while **73.46% remain active**.
 - This indicates that roughly **1 out of every 4 customers leaves the service**, representing a high attrition rate for a subscription-based business.
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Demographic-Based Churn Patterns

Category	% of Churners	Key Insight
Senior Citizens	Higher than non-senior group	Senior citizens churn at a significantly higher rate , indicating possible issues with service usability or support.
Non-Senior Customers	Lower churn rate	More stable, indicating better satisfaction or product fit.

✓ Action: Tailored support, simplified communication, or senior-friendly service bundles may help improve retention.



Tenure & Loyalty Behavior

- **Short-tenure customers (1–2 months)** show the **highest churn rate**, suggesting early customer dissatisfaction or onboarding gaps.
- Customers with tenure **> 2 years show <10% churn**, confirming that *loyalty increases with time*.

✓ Action: Improve **first 90-day experience** with onboarding calls, personalized support, and early loyalty rewards.

Contract Type & Churn

Contract Type	Churn Percentage
Month-to-Month	~45–50% churn rate
1-Year	~11% churn
2-Year	~3% churn

- Customers on **month-to-month plans** are nearly **10X** more likely to churn than those on 2-year contracts.

✓ Action: Incentivize contract upgrades via discounts, bundled benefits, or reward credits.

Service Features & Churn

General trend from charts:

- Customers **missing value-added services** (Tech Support, Security, Phone Service) churn at noticeably **higher rates**.
- Customers actively subscribed to services like **Streaming TV and Movies** churn **less**, showing *engagement reduces churn*.

Service Gap	Churn Likelihood
No Tech Support	High
No Internet Service	Highest
Streaming Services Active	Lower churn

✓ Action: Promote **cross-selling** of add-on services, especially to at-risk segments.

Payment Method Influence

- Customers using **Electronic Check** as a payment method are **most likely to churn**, compared to credit card, auto-pay, and bank transfer users.
- This may be due to: extra steps, lack of automation, payment failure friction, or fee sensitivity.

✅ Action: Provide incentives to switch to **AutoPay** or Digital Wallets.

Key Strategic Recommendations

1. **Fix early churn:** Deploy 30–60–90 day onboarding journey.
 2. **Lock in loyalty:** Offer financial benefits for yearly / multi-year plans.
 3. **Bundle services:** Push "value packs" including tech support + security + streaming.
 4. **Target seniors** with special support programs or senior-friendly UI/tutorials.
 5. **Reduce friction in payments** by promoting card/auto-payment options.
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Final Insight

The churn problem is *not random* — it is **highly predictable**.

Most churn is concentrated among:

- ✅ new customers
- ✅ month-to-month contract users
- ✅ electronic-check payers
- ✅ customers lacking value-added services
- ✅ senior citizens