Executive Summary: Customer Churn Analysis

This report presents findings from a comprehensive analysis of customer churn behavior using demographic and service usage data. The goal is to identify patterns and actionable insights to improve customer retention.

Overview

- The dataset includes **21 variables** related to customer demographics, service usage, and payment behavior.
- Out of the entire customer base, **26.54%** have churned.
- The analysis highlights strong relationships between churn and variables such as contract type, tenure, senior citizen status, and specific service features.

Key Insights

1. Churn Distribution

- Churn Rate:
 - 26.54% of customers have churned.
 - 73.46% remain active, indicating a retention opportunity in the high-churn segment.

2. Tenure and Churn Behavior

- Customers with tenure less than 6 months make up a significant portion of the churners.
 - Over 50% of customers who left had a tenure of 1 or 2 months.
- In contrast, customers with **tenure above 24 months** show a churn rate of **less than 10%**.

 Long-term users demonstrate loyalty and satisfaction, suggesting the importance of early engagement.

3. Contract Type

- Customers on month-to-month contracts have the highest churn rate at ~43%.
- Those on **one-year contracts** show a churn rate of **11%**, while **two-year contract holders** churn at **just 2%**.
 - This suggests a **strong inverse relationship** between contract duration and churn likelihood.

4. Senior Citizen Status

- Senior citizens make up 16% of the customer base, but they account for 26% of churners.
 - This means senior citizens are 65% more likely to churn than non-seniors.
- This demographic might require **tailored service support** and engagement strategies.

5. Internet and Add-On Services

- Customers without internet service have a churn rate of ~7%, significantly lower than internet users.
- Among internet users:
 - Customers with Online Security churn at 15%, while those without churn at 35%.
 - Tech Support and Device Protection show similar patterns:
 - Churn rates with service: ~17%
 - Churn rates without service: ~35-40%
 - These services likely contribute to better customer satisfaction and perceived value.

6. Phone Services

• Multiple Lines and Phone Service show minimal difference in churn behavior (both around 26% churn), suggesting these features are neutral in influencing churn.

Recommendations

1. Focus on Early Tenure Engagement

Target new customers (< 6 months) with:

- Onboarding support
- Personalized offers
- Loyalty programs
 This could dramatically reduce early-stage churn.

2. Incentivize Long-Term Contracts

Promote 1-year and 2-year contracts with:

- Discounts or bundled packages
- Rewards for contract renewals

3. Expand Adoption of Add-On Services

Upsell features like:

- Online Security
- Tech Support
- Device Protection
 These significantly correlate with lower churn and can boost ARPU.

4. Address Senior Citizen Needs

Develop tailored communication or simplified service packages for this group to enhance satisfaction and retention.

5. Monitor and Improve Internet Service Quality

Since customers with internet services are more likely to churn, investigate potential service quality or pricing issues.