Executive Summary: Customer Churn Analysis

This analysis evaluates **customer churn patterns** using data-driven insights and visualizations. The dataset reveals that **27% of customers have churned**, highlighting a significant retention challenge. The study explores key factors such as **demographics**, **service types**, **contract lengths**, **and payment methods**, which influence customer behavior.

Key Findings:

- **Property of Chart Rate: 27% of customers** have churned, while **73% remain active**.
- ★ Senior Citizens & Churn: 42% of senior citizens have churned, compared to 24% of non-senior customers, suggesting older customers may require targeted engagement strategies.

Service Type Influence:

- Fiber optic internet users have the highest churn rate (42%), compared to DSL users (20%) and those without internet service (8%).
- Customers without Online Security or Tech Support churn at a rate of 46%, compared to 14% among those with these services, emphasizing the importance of security and support features.

Contract Type & Churn:

- Month-to-month contract users show the highest churn rate at 60%, while only 11% of yearly contract users churn.
- Customers with **two-year contracts** have the lowest churn rate (3%), indicating long-term commitments help in retention.

Payment Method & Churn:

- Customers using **electronic checks** have the highest churn rate **(45%)**, while those using credit cards or bank transfers have significantly lower churn **(15%-20%)**.
- This suggests that customers paying via electronic checks may need better engagement strategies.

Key Recommendations for Reducing Churn:

- Encourage customers to switch to long-term contracts by offering better incentives.
- Promote **security features (Online Security, Tech Support, Device Protection)** to reduce churn by nearly **30**%.
- Improve retention strategies for **fiber optic users**, such as offering better pricing or loyalty programs.
- Address payment method issues by promoting auto-pay options for electronic check users.
- ✓ Implement **proactive customer support** for senior citizens and at-risk customers.

By focusing on service quality, contract flexibility, and personalized engagement, businesses can increase customer retention and reduce churn. 🚺 📈