M Executive Summary:

Telecom Customer Churn Analysis

This report presents an in-depth analysis of customer churn within a telecom service provider's dataset consisting of 7,043 customers. The goal was to uncover factors contributing to customer attrition and identify actionable insights to improve retention rates.

Key Findings

- **Overall Churn Rate**: 26.54% of customers have churned, indicating that more than one in four customers are leaving the service.
- Demographic Influence:
 - Senior Citizens have a significantly higher churn rate (41.7%) compared to non-seniors (23.6%), suggesting age-based service adjustments may be warranted.
- Tenure Impact:
 - o Most churn occurs within the first 10 months of tenure.
 - o Customers with longer tenure demonstrate higher loyalty, with minimal churn beyond 60 months.
- Contract Type:
 - Month-to-month contracts correlate with the highest churn, while one-year and two-year contracts show significantly lower churn, highlighting the effectiveness of longer commitments in customer retention.
- Service Features & Churn Behavior:
 - Lack of value-added services such as tech support, online security, device protection, and streaming options corresponds with elevated churn.
 - Customers not subscribed to internet services or using fiber optic internet tend to churn more than DSL users.
- Payment Method Trends:
 - o **Electronic check** payments show the highest churn.
 - Automatic payments (credit card/bank transfer) are associated with better customer retention.

Actionable Recommendations

- Enhance Early-Stage Support: Improve onboarding and customer support during the initial months to prevent early churn.
- **Target Senior Customers**: Create simplified plans and communication strategies tailored to senior demographics to lower their churn rate.
- **Promote Longer-Term Contracts**: Incentivize customers to opt for one-year or two-year plans via loyalty benefits and discount packages.
- **Boost Value-Added Services**: Expand and promote services like tech support and security features which directly influence retention.
- **Encourage Auto-Payment Options**: Streamline the payment process and offer benefits for adopting automatic payment methods.