Executive Summary: Telco Customer Churn Analysis

Objective:

The primary objective of this analysis is to identify key factors influencing customer churn in a telecom company. By analyzing customer demographics, service usage patterns, and contract types, we aim to derive insights that can help reduce churn rates and improve customer retention strategies.

Key Findings:

1. Overall Churn Rate:

- The dataset consists of 7,043 customers, out of which approximately 27% (1,869 customers) have churned.
- o Identifying key drivers of churn is crucial to minimizing customer loss.

2. Impact of Service-Related Factors on Churn:

- Internet Service: Customers with Fiber Optic service show a higher churn rate compared to DSL or those without internet service.
- Online Security & Backup: Customers without online security or backup services have a significantly higher churn rate.
- Streaming Services: Customers who have opted for Streaming TV or Movies tend to churn more, possibly due to cost concerns.

3. Contract Type Influence:

- Month-to-month contracts have the highest churn rate compared to yearly or two-year contracts.
- Customers with longer contracts (1 or 2 years) are more likely to stay with the company.

4. Demographic Influence:

- Senior citizens (age 65+) show a higher churn rate compared to younger customers.
- Customers without dependents or partners are more likely to churn, suggesting a lack of household commitment to the service.

5. Tenure Analysis:

- Customers with shorter tenure (less than 6 months) are at the highest risk of churn, indicating the importance of early engagement strategies.
- Loyal customers (tenure >24 months) have significantly lower churn rates, reinforcing the impact of long-term customer relationships.

Conclusion & Recommendations:

- Encourage **long-term contracts** with promotional discounts or bundled offers to reduce churn.
- Improve customer experience for **Fiber Optic users** by addressing potential service quality concerns.
- Offer loyalty incentives for new customers to increase retention within the first 6 months.
- Provide value-added services like free security and backup features to reduce churn in high-risk customer segments.
- Target at-risk segments (e.g., senior citizens, single customers, short-tenure customers) with personalized engagement strategies.

By leveraging these insights, **Telco** can optimize retention strategies, enhance customer satisfaction, and ultimately reduce churn.