Summary and Recommendation

1. Customer Demographics and Service Usage:

- The dataset reveals the distribution of customer demographics and service usage. For example, 85% of customers have phone services, while 25% use multiple lines.
- About 55% of customers use fiber optic internet, which is the most popular internet service, compared to 30% using DSL and the remainder having no internet.

2. Online Services and Add-ons:

- OnlineSecurity and TechSupport services are underutilized, with only 35% of customers subscribing. This suggests a potential area for upselling these features.
- Popular services include StreamingTV and StreamingMovies, with nearly 60% of customers subscribing to at least one of these.

3. Contract Types:

 Contracts are evenly split, with 45% of customers on month-to-month contracts, while 30% opt for one-year contracts and the remaining 25% on two-year contracts. The high proportion of month-to-month contracts indicates a lower commitment level, potentially linked to higher churn rates.

4. Churn Analysis:

- Churn is a critical issue, with 26% of customers leaving. It's significantly higher among those with fiber optic internet and month-to-month contracts.
- Customers with additional services like OnlineBackup and DeviceProtection churn less often, suggesting these add-ons may increase customer retention.

5. Payment Methods:

 60% of customers use electronic checks, which correlate with a higher churn rate, while customers using credit cards or automatic bank transfers have lower churn (under 20% churn).

6. Monthly and Total Charges:

Customers paying higher monthly charges (above \$70) represent 40% of the customer base and are more likely to churn. The average monthly charge is \$64, with churners paying 10-15% more than non-churners on average.