# **Summary of Telecom Customer Churn Analysis:**

## **Objective:**

The goal of this analysis was to understand what factors contribute to customer churn in the telecom industry. We focused on aspects like **payment methods**, **contract types**, and **customer tenure** to identify patterns that could help reduce churn.

### **Key Insights:**

## 1. Contract Type and Churn:

- Month-to-month contracts have the highest churn rate, with 42% of these customers likely to leave.
- Customers on longer contracts (1-year and 2-year) have much lower churn rates, at 11% and 3%, respectively.
- Takeaway: Long-term contracts are more effective at keeping customers, so encouraging customers to commit to longer terms could improve retention.

### 2. Payment Methods and Churn:

- Customers using electronic checks have a 45% churn rate, which is much higher than those using credit cards or bank transfers (around 15-18%).
- Takeaway: The higher churn rate among electronic check users could be due to convenience or trust issues. Encouraging customers to switch to more secure payment methods could help reduce churn.

## 3. Churn by Tenure:

- Customers with less than 1 year of tenure have the highest churn rate at 50%.
- Churn decreases with time: 35% for customers with 1-3 years of tenure and just 15% for those with more than 3 years.
- Takeaway: Engaging customers early, especially within their first year, is critical to improving retention.

## 4. Churn by Internet Service Type:

- o Fiber optic users have a higher churn rate (30%) compared to DSL users (20%).
- Takeaway: There may be issues with service quality or competition for fiber optic users.
  Improving service quality or customer satisfaction could help retain these users.

#### 5. Senior Citizens and Churn:

 Senior citizens (aged 65+) have a churn rate of 41%, compared to 26% for younger customers.  Takeaway: Special retention strategies targeting senior customers, such as personalized offers or customer service programs, could help reduce churn in this group.

## **Visual Insights:**

## • Bar and Line Graphs:

- Visuals showed that electronic check users churn almost three times more than customers using more traditional payment methods.
- Churn by tenure visuals confirmed that churn decreases as customers stay longer with the company, emphasizing the importance of early-stage engagement.

## • Churn Rates by Factor:

- o **Payment Methods:** 45% churn for electronic check users vs. 15% for credit card users.
- o Contract Types: 42% churn for month-to-month contracts vs. 11% for yearly contracts.
- o **Tenure:** 50% churn in the first year, dropping to 15% after three years.

#### **Recommendations:**

## 1. Promote Long-Term Contracts:

Encourage customers to sign longer contracts by offering incentives, as these customers are less likely to churn.

### 2. Address Payment Method Concerns:

Launch campaigns to encourage customers to switch from electronic checks to more secure and reliable payment methods.

## 3. Focus on Early Customer Engagement:

Since churn is highest in the first year, improving the customer experience during this period is crucial for retention.

#### 4. Senior Citizen Retention Programs:

Develop targeted retention programs for senior customers, such as personalized offers or assistance programs, to reduce churn in this demographic.