# **Telco Customer Churn Analysis Summary**

# **Objective**

The primary goal of this analysis was to identify the factors contributing to customer churn in a telecommunications industry. By understanding which factors lead to higher churn rates, the company can implement strategies to improve customer retention and reduce churn.

#### **Dataset Overview**

The dataset used in this analysis contains information about customers, including demographic details, subscription services, payment methods, and whether or not they churned. Key attributes include:

- **Demographic Information**: Age, gender, and customer tenure.
- **Service Details**: Subscription to various services such as phone service, internet service, and premium services.
- Payment Methods: Methods used for payments (electronic check, credit card, etc.).
- **Churn**: A binary column indicating whether the customer churned or stayed.

# **Key Findings**

### 1. Payment Methods Impact on Churn:

- Customers using electronic checks have a churn rate of 42%, significantly higher than the overall churn rate of 26%.
- In contrast, customers using automatic payment methods such as credit cards or bank transfers have a churn rate of only 12%, suggesting these methods are much more customer-friendly.

## 2. Customer Tenure:

- Customers with a tenure of less than 1 year have a churn rate of 50%, indicating high dissatisfaction among new users.
- For customers with tenure over 5 years, the churn rate drops to 10%,
   demonstrating strong loyalty and reduced churn likelihood as tenure increases.

#### 3. Service Subscription and Churn:

- Premium services: Customers subscribed to premium services (such as advanced internet or TV packages) have a churn rate of 35%, compared to 20% for those without premium services, indicating potential dissatisfaction with the value or pricing of premium options.
- Internet service type: Fiber optic customers have a churn rate of 30%, while
  customers using DSL services have a lower churn rate of 15%, suggesting that
  fiber optic customers may face issues with service quality or pricing.

## 4. Demographics:

- Senior citizens: Churn rate for senior citizens is 45%, significantly higher than the overall churn rate, indicating specific challenges for this demographic.
- Gender: The churn rate for males is 26% and for females is 27%, showing no significant difference in churn behavior based on gender.

#### Recommendations

Based on the findings, the following actions are recommended:

- Promote Automatic Payment Methods: Encourage customers to switch from electronic checks to automatic payment methods by offering incentives or simplifying the process.
- 2. **Improve Early Customer Experience**: Implement a targeted retention strategy for new customers within their first year, such as personalized customer support, onboarding programs, or discounts, to improve satisfaction and reduce early churn.
- 3. **Evaluate and Optimize Premium Services**: Conduct a thorough review of premium services to ensure they meet customer expectations and provide value for money. Adjust pricing or features as necessary to improve customer satisfaction.
- Senior Citizen Retention Program: Develop a customer service initiative tailored to senior citizens, addressing their unique needs and concerns to help reduce their churn rate.