# **Summary- Teco Customer Churn Analysis**

This project analyzes customer churn data from a telecom company to identify key factors influencing whether customers stay or leave. Using visualizations and percentage-based insights, the analysis highlights patterns in service usage, contract types, and demographics that directly impact churn.

### **Key Findings**

• Churn Rate: Around 26–27% of customers churned, highlighting a major retention challenge.

#### Internet Service:

- Customers with Fiber Optic connections show the highest churn (42%) compared to DSL (18%).
- Indicates dissatisfaction with fiber optic service or pricing.
- Value-Added Services (OnlineSecurity, TechSupport, DeviceProtection, OnlineBackup):
  - Customers without these services churn at nearly 40%, compared to only 15–20% among subscribers.
  - Suggests that offering bundled security/tech support reduces churn significantly.

#### Contract Type & Tenure:

- Month-to-month customers churn at 45%, whereas those with 1- or 2-year contracts churn <12%.</li>
- Long-term contracts strongly improve retention.
- Newer customers (tenure < 12 months) are much more likely to leave.

#### • Demographics:

- Senior citizens churn at 41%, higher than younger customers (~25%).
- Indicates the need for age-specific customer support strategies.

- Streaming Services (TV/Movies):
  - Minimal impact on churn. Users of streaming services churn at ~28%, similar to those without.

### Conclusion

The analysis shows that churn is driven less by entertainment services and more by **contract type, internet service quality, and lack of protective add-ons (security, support, backup)**. To reduce churn, the company should:

- 1. Promote long-term contracts with discounts.
- 2. Bundle OnlineSecurity, TechSupport, and Backup services.
- 3. **Investigate Fiber Optic dissatisfaction** to improve quality or pricing.
- 4. Target retention offers for senior citizens and new customers.

## **Visual Insights**

The project includes clear visualizations:

- Count plots for service usage vs. churn.
- Pie/Bar charts highlighting churn percentages.
- Subplots comparing multiple service categories side by side.