Telco Customer Churn Analysis – Executive Summary

6 Objective

The objective of this analysis is to identify key factors influencing customer churn by exploring variables such as **contract type**, **payment methods**, **tenure**, **internet service type**, and **demographic attributes**. The goal is to derive actionable insights that can guide strategic customer retention efforts.

Q Key Insights & Data-Driven Findings

🔢 Contract Type & Churn

- Month-to-month contract holders show the highest churn rate at 42%.
- In comparison, customers with 1-year contracts churn at 11%, and 2-year contracts at only 3%.
- Implication: Long-term contracts serve as effective tools to retain customers, likely due to reduced switching and greater satisfaction.

= Payment Method & Churn

- Customers paying through Electronic Checks show the highest churn rate at 45%.
- By contrast:
 - Credit Card (auto): ~15%
 - Bank Transfer (auto): ~16%
 - Mailed Check: ~19%
- Implication: Promoting auto-payment methods may increase stickiness and trust, reducing churn.

Tenure & Churn

- Churn is **highest** (50%) among customers with <1 year tenure.
- Drops to 35% for 1–3 year tenure.
- Falls further to just 15% for customers with >3 years tenure.
- Implication: Onboarding and early engagement strategies are critical within the first year to prevent churn.

(1) Internet Service Type

- Fiber Optic users churn at 30%, compared to 20% for DSL users.
- Implication: Investigating service satisfaction among fiber users could uncover technical or pricing issues.

Senior Citizens & Churn

- Senior citizens (age 65+) have a 41% churn rate, compared to 26% among non-senior citizens.
- Implication: Tailored communication and support services may help reduce churn in this vulnerable demographic.

II Visual Insights

- Bar plots and percentage-stacked charts show **clear trends**:
 - Churn rate declines sharply with tenure.
 - Month-to-month contracts and electronic check payments are consistently the highest-risk segments.
 - **Non-users** of additional services (e.g., OnlineSecurity, TechSupport) are also prone to churn.

✓ Strategic Recommendations

Offer discounts or bundled offers to encourage commitment to 1–2 year plans.

2. **migrate Users to Auto-Pay**

Initiate campaigns or incentives to shift customers away from electronic checks to more stable, auto-payment methods.

3. Focus on Early Engagement

Build structured welcome/onboarding experiences and loyalty programs targeting customers in their **first year**.

4. Senior-Centric Services

Develop specialized customer service and retention strategies targeting **senior citizens** with higher churn probability.

5. * Improve Fiber Service Experience

Conduct customer feedback surveys for **Fiber Optic users** to improve satisfaction and reduce churn.