# **Lil** Customer Churn Analysis Report – Summary & Insights

### **Q** 1. Data Cleaning & Preparation

All missing values (especially in TotalCharges) were replaced with 0, assuming they are new users. Null-checks confirmed a clean dataset. The SeniorCitizen column was mapped from 0/1 to No/Yes for better readability.

#### 2. Overall Churn Rate

73.46% of customers are retained, while 26.54% have churned. This churn rate requires strategic intervention.

#### 3. Churn Among Senior Citizens

Senior citizens ("Yes") have a higher churn rate. Tailored services could help reduce this.

Recommendation: Offer senior-specific support and care packages.

#### 4. Tenure vs. Churn (CRITICAL INSIGHT)

Users with 0-12 months tenure churn the most. Longer tenure (24+ months) customers tend to stay.

Recommendation: Introduce a "First 90 Days Engagement Program" with loyalty perks and early support to improve retention.

## **5. Contract Type & Churn**

Month-to-month users churn more compared to long-term contracts.

Recommendation: Incentivize long-term contracts with discounts or free add-ons.

### 6. Service Usage & Its Impact

Lack of services like **OnlineSecurity**, **TechSupport**, and **DeviceProtection** is strongly associated with higher churn. Fiber optic internet users also show higher churn.

**Recommendation:** Bundle key services and investigate fiber optic satisfaction issues.

### 7. Payment Method Influence

Electronic check users have the highest churn rate.

**Recommendation:** Promote secure payment methods with discounts and check system reliability.

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Priority	Recommendation	Target
High	Focus on early tenure customers (0–12 months)	Reduce churn in the most vulnerable group
Medium	Convert monthly contract users to annual plans	Boost long-term engagement
Medium	Promote service bundles with security/support features	Improve perceived value
Low	Improve experience for senior citizens	Expand customer trust and inclusivity