

Telecom Customer Services: Actionable Insights:

General Outcomes:

- 1. There is a correlation between monthly charges and customer churn rate.
- ² Generally in Month-Month Contract customers left as double as compared to other contracts.

. Customer Patterns:

- 1. Female Customers have less tenure months and retain percentage as compared to male customers overall.
- 2. Customers who have dependents left more, and have more monthly charges.

Services Analysis:

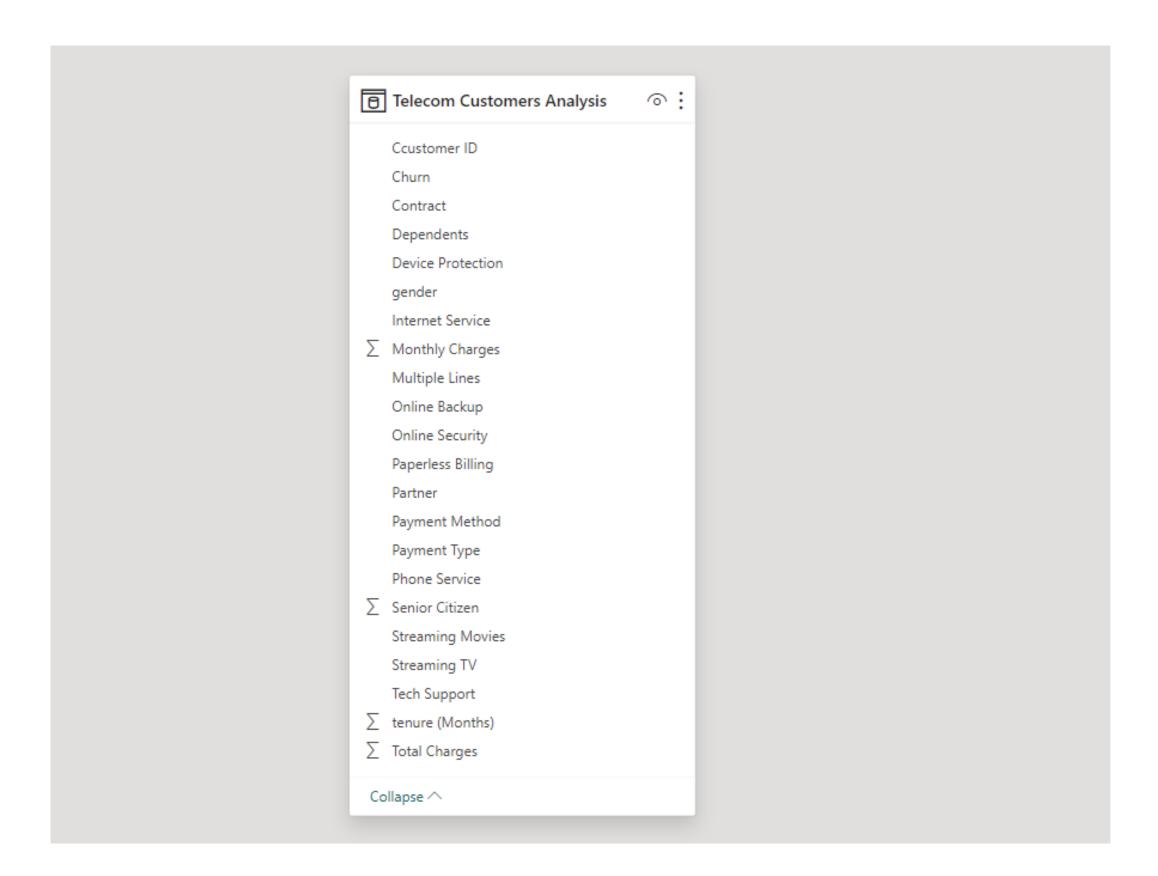
- 1. Customers who availed phone and internet services left more and monthly contract left more.
- ² Customers who have not availed online backup and tech services left more in monthly contracts.

Payment Analysis:

- 1. Customers who have used paperless billing in manual way left more.
- ² Customer who paid manually as electronic check and monthly contract left more.

Business Semantics Data Model:

There are 3 Business areas (customers, payment and services to measure the customer services for effective Customer consuming analysis.



Telecom Customer Services Analysis Dataset Description

Each row represents a customer, each column contains customer's attributes described on the column Metadata. The raw data contains 7043 rows (customers) and 21 columns (features).

Features Description:

Customer IDL Custemer Unique ID Number

gender: Customer Gender (M, F)

SeniorCitizen:Whether the customer is a senior citizen or not (1, 0)

Partner: Whether the customer has a partner or not (Yes, No)

Dependents: Whether the customer has dependents or not (Yes, No) tenure: Number of months the customer has stayed with the company

PhoneService: Whether the customer has a phone service or not (Yes, No)

MultipleLines: Whether the customer has multiple lines or not (Yes, No, No phone service)

InternetService: Customer's internet service provider (DSL, Fiber optic, No)

OnlineSecurity:Whether the customer has online security or not (Yes, No, No internet service)

Use Cases:

Objective is to find solutions and suggestions for any possible churning

- ·What is the percentage of Customers who are with the active services and Customers who Churn?
- Does gender play a role in Customers Churn?
- Does the type of service provided leads to more/less Customers Churn?
- · What's the most profitable service types?
- Profitable features and services by the company?

Dataset Source: https://www.kaggle.com/code/rakkesharv/telecom-customer-churn-analysis-eda-ml-modelling/input