# EDA Report: Churn Dataset

## 1. Dataset Overview

The dataset contains 100 customer records and includes features such as:

- MonthlyCharges

- Tenure

- SupportTickets

- HasContract

- Churn (target variable)

Churn rate is approximately 20% based on simulated probabilities.

## 2. Univariate Analysis

- Majority of customers have not churned (80%).

- Monthly Charges are uniformly distributed between $20 and $120.

- Tenure varies between 1 and 35 months.

- SupportTickets mostly range between 0 and 4.

## 3. Bivariate Analysis

- Churned customers tend to have higher Monthly Charges.

- Customers without contracts are more likely to churn.

- Longer tenure generally correlates with lower churn rates.

- Stacked histogram of Tenure shows churners are skewed toward lower tenure.

## 4. Correlation Analysis

- MonthlyCharges and Tenure show weak correlation with Churn.

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- SupportTickets and Churn show very low or no strong linear correlation.

- Correlation values range between -1 and 1; none are strongly correlated.