

# Model performance metrics and visualizations

## Part A: Visualization of data and churn with respect to different given feature and introduced features:

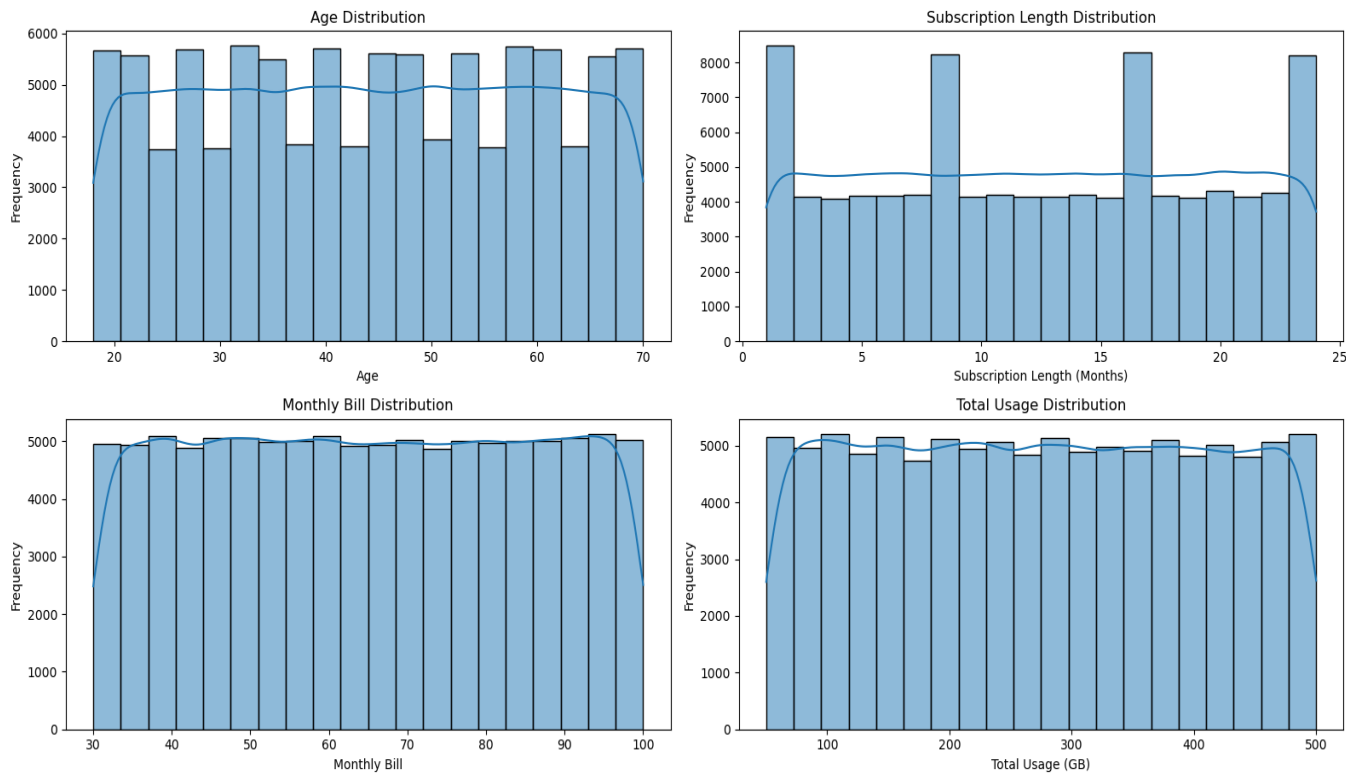


Fig. : Distribution of Age, subscription Length in Months, Monthly Bill and Total Usage in GB



Fig.: Distribution of Churn with respect to different existing and introduced features

**Part B: Performance of the model with confusion matrix and performance metrics:**

The performance metrics values are as follows:

**Optimized Model Evaluation:**

Accuracy: 0.50

Precision: 0.50

Recall: 0.70, and

F1-Score: 0.58

