

# Telco Customer Churn Analysis

Churn Rate %

26.58

Avg Monthly Charges

64.8

Avg Tenure

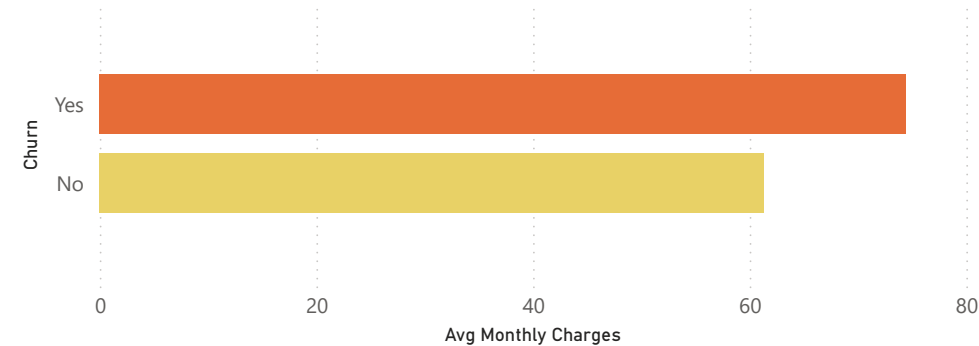
32.42

No of Customers

7.032K

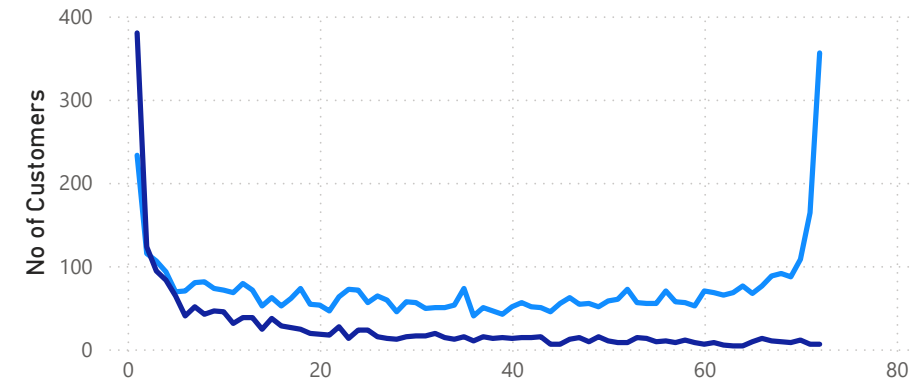
Monthly Charges

Churn Yes No



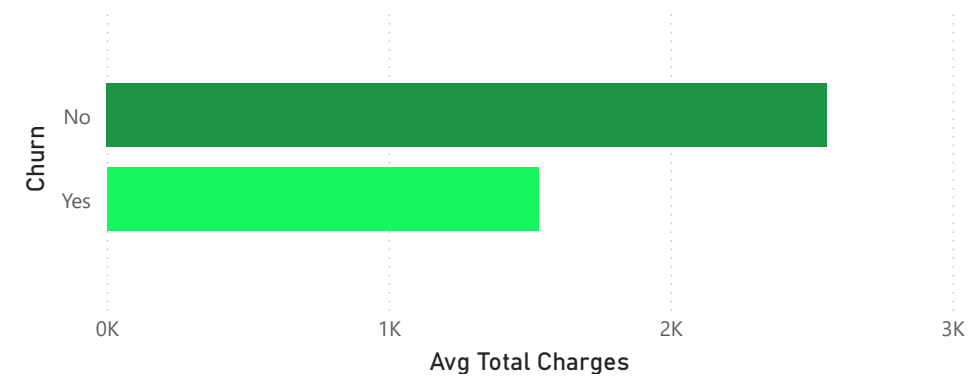
Tenure v/s Churn

Churn No Yes

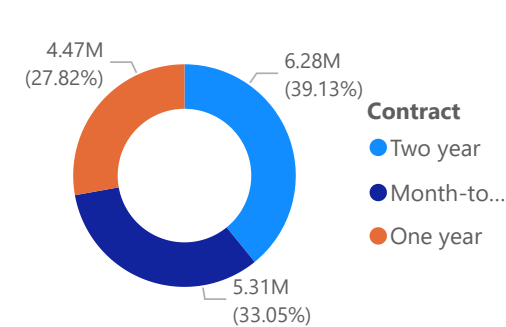


Total Charges

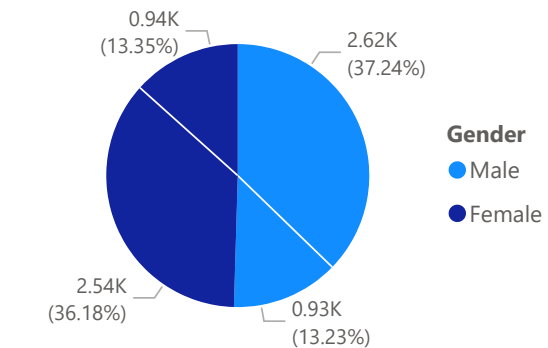
Churn No Yes



TotalCharges by Contract



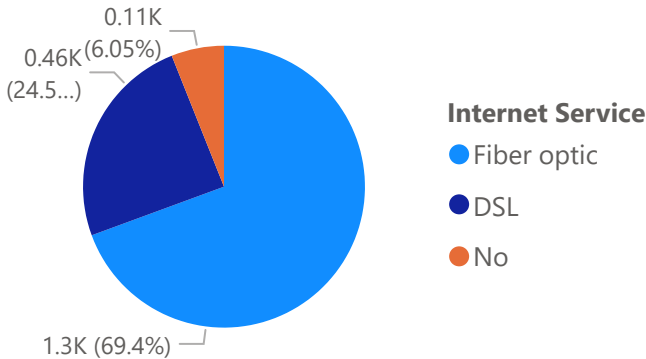
Gender v/s Churn



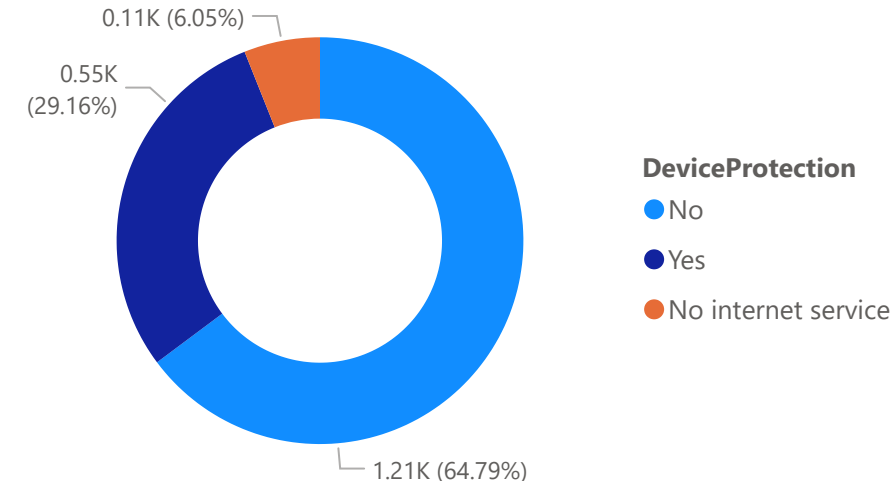
# COMPANY SERVICES V/S CHURN

Churn  
No  
Yes

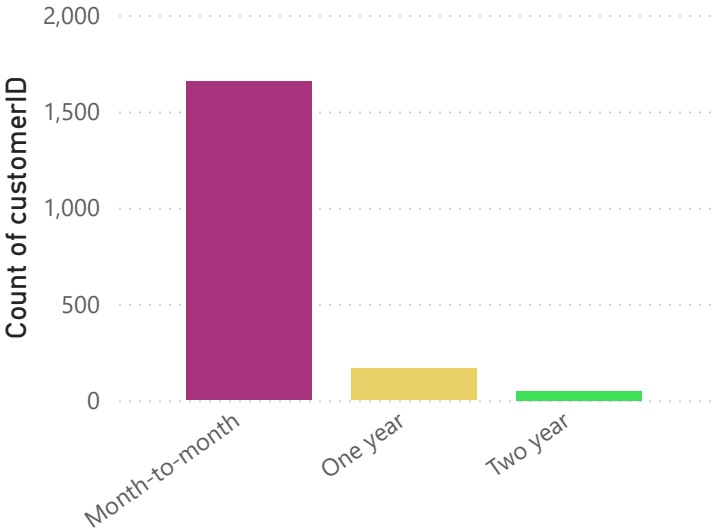
Internet Service



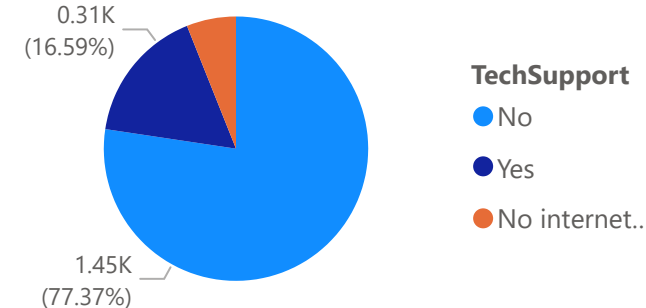
Device Protection



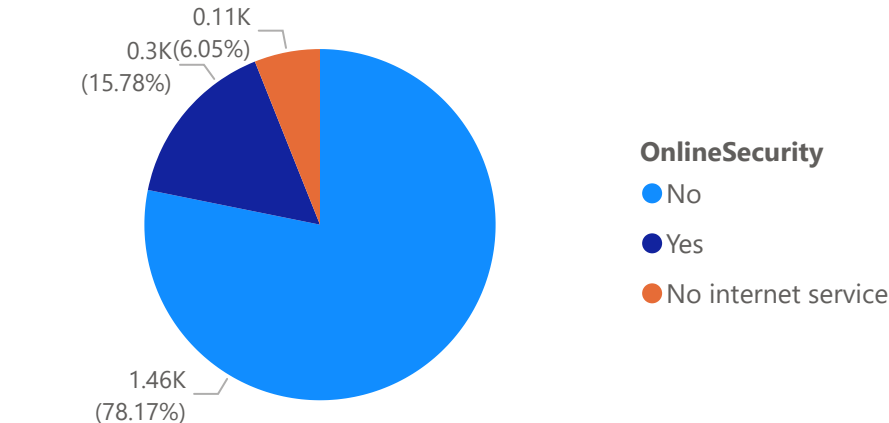
Contract



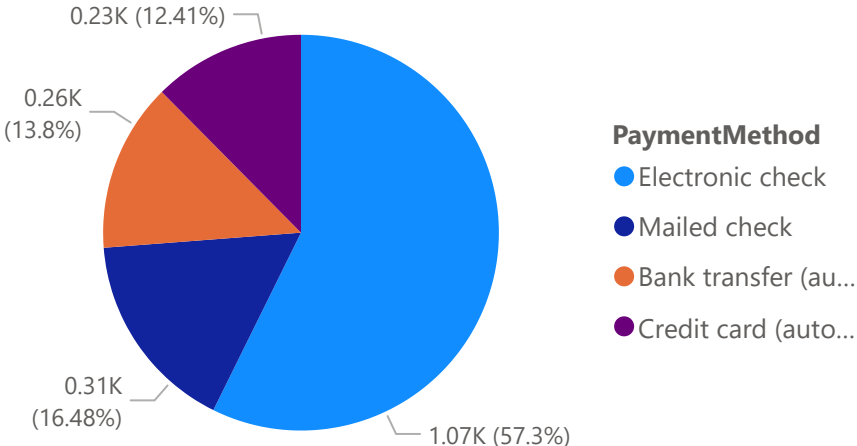
Tech Support



Online Security



Contract



# MODEL RESULTS

No of Customers(Test)

1.407K

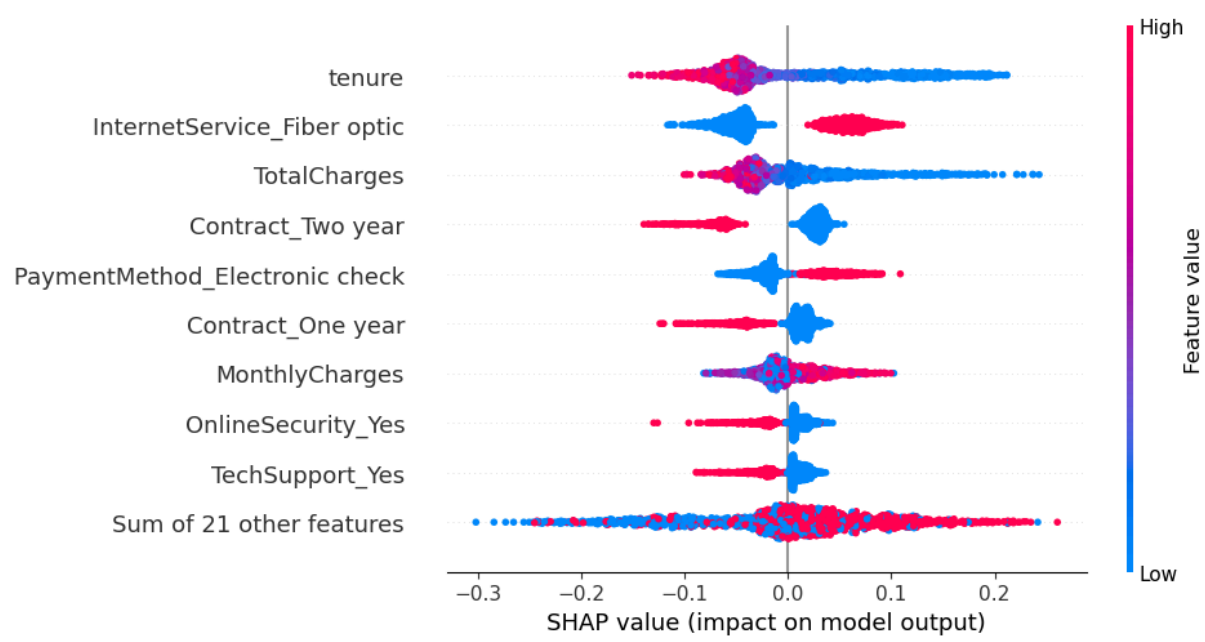
No of Correct Predictions

1K

Accuracy

0.79

## IMPORTANT FEATURES FROM SHAP



Contract	MonthlyUsage	InternetService	OnlineSecurity	TechSupport	Churn_Rate%
Month-to-month	High	Fiber optic	No	No	0.60
Month-to-month	High	Fiber optic	No	Yes	0.44
Month-to-month	Low	DSL	No	No	0.50
Month-to-month	Low	DSL	No	Yes	0.20
Month-to-month	Medium	DSL	No	No	0.38
Month-to-month	Medium	DSL	No	Yes	0.26
Month-to-month	Medium	Fiber optic	No	No	0.62
Month-to-month	Medium	Fiber optic	No	Yes	0.30
One year	High	DSL	No	Yes	0.09
One year	High	Fiber optic	No	No	0.22
One year	High	Fiber optic	No	Yes	0.21
One year	Low	DSL	No	No	0.13
One year	Low	DSL	No	Yes	0.11
One year	Medium	DSL	No	No	0.15
Total					0.27