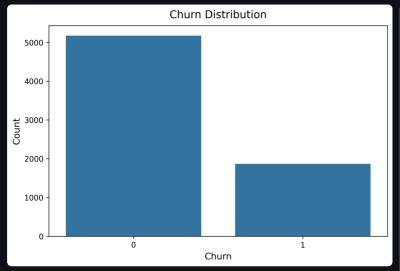
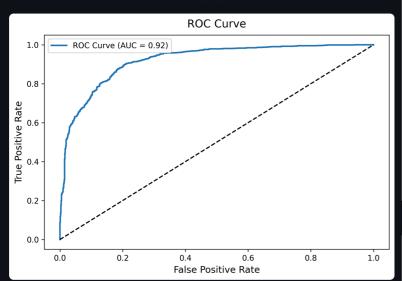
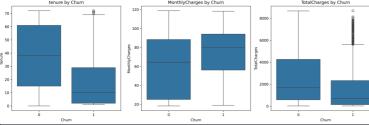
Customer Churn Prediction Dashboard

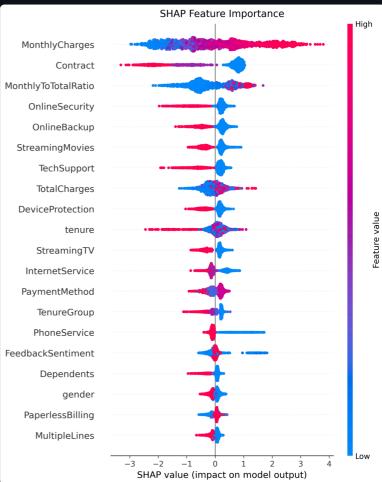
Model AUC-ROC: 1.00

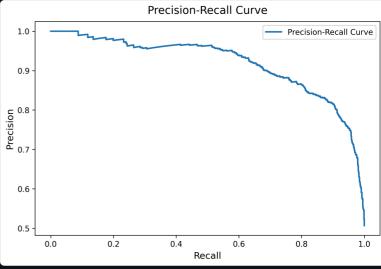


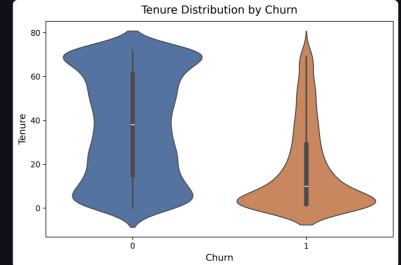
Churn Distribution

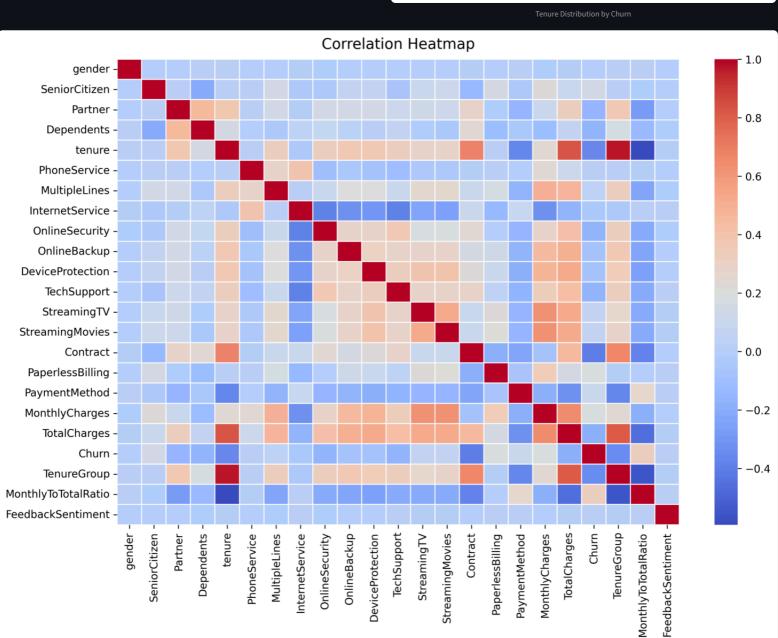




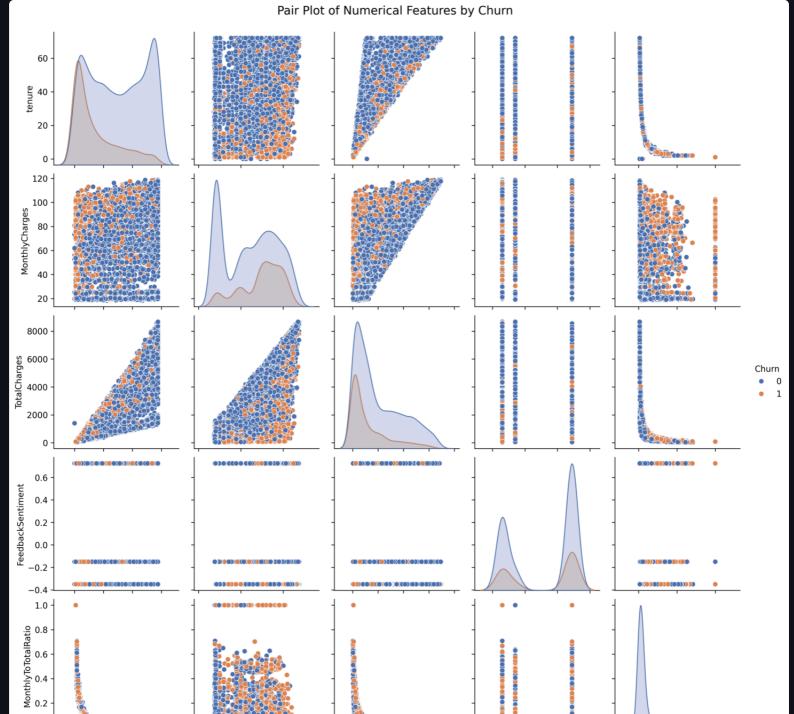








Correlation Heatman



TotalCharges

2500 5000 7500 10000

-0.5

0.0

FeedbackSentiment

0.5

1.0

0.0 0.5 1.0 MonthlyToTotalRatio

0.0

1.0

0.0

ò

50

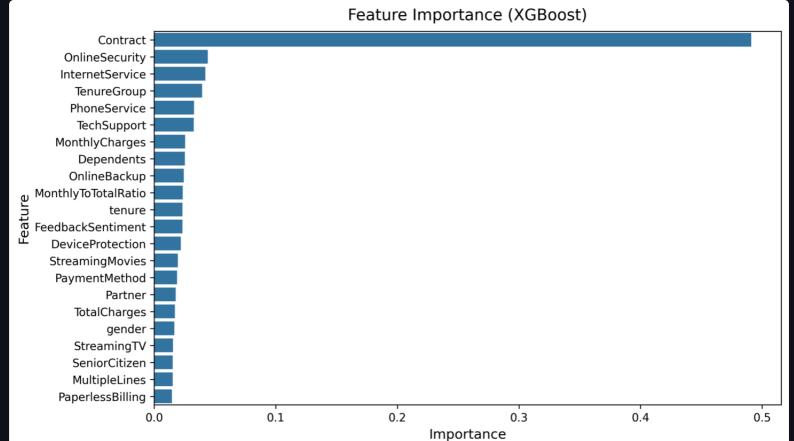
tenure

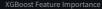
. 75

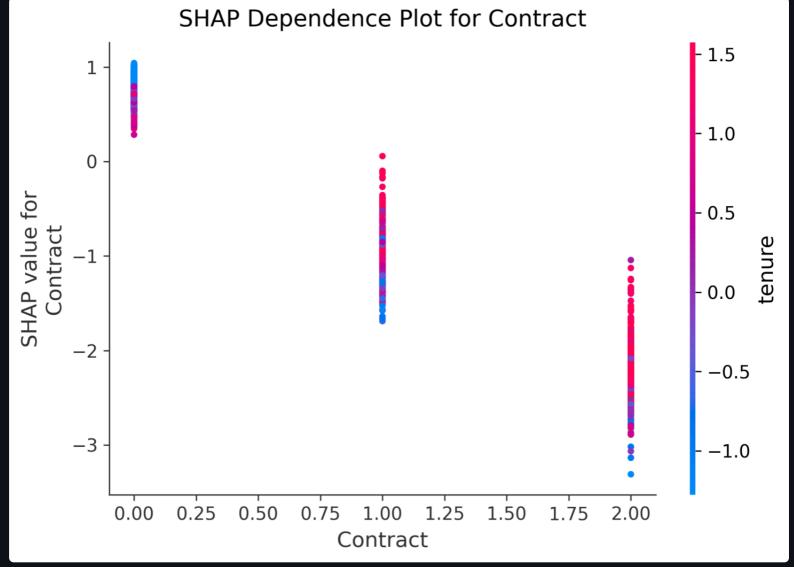
50

MonthlyCharges

100







SHAP Dependence for Top Feature

gender	SeniorCitizen	Partner	Dependents	tenure	PhoneService	MultipleLines	InternetService	OnlineSecurity	OnlineBackup	DeviceProtection	TechSupport	StreamingTV	StreamingMovies	Contra
0	1	0	0	0.6312	1	1	1	0	1	0	0	0	0	
1	0	0	0	-0.9757	1	0	1	0	0	0	0	0	0	
0	1	0	0	-0.9924	1	0	1	0	1	0	0	1	0	
0	0	0	1	-0.7481	1	1	1	1	0	0	1	0	0	
0	0	0	0	-1.22	0	0	0	0	0	0	0	0	0	

Business Recommendations

- Improve customer support to address negative feedback.
- Offer loyalty discounts for short-tenure customers.
- Introduce flexible pricing plans for high-cost customers.