

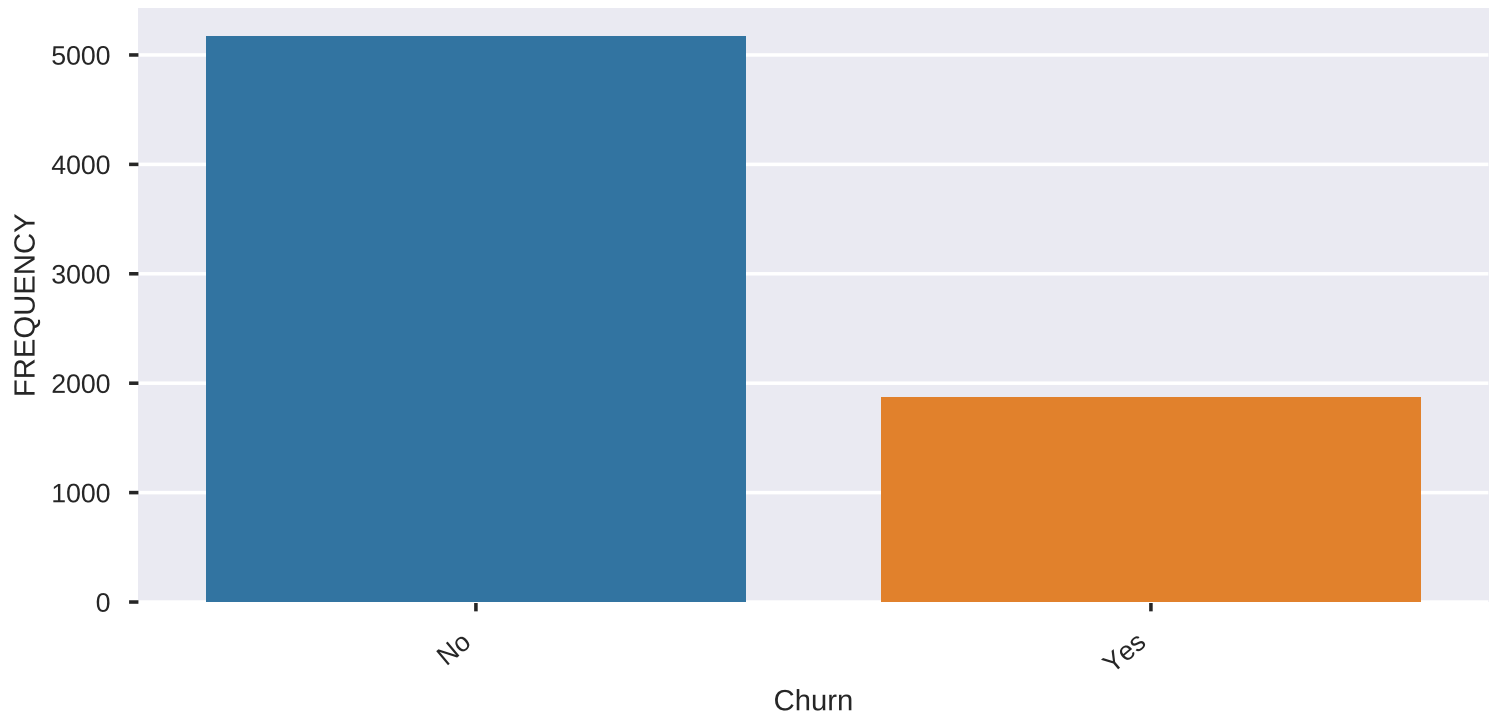
PROJECT OVERVIEW

Name	test proj 4
Description	xz
Client	z
Created By	system_user
Creation Date	2019-09-11 14:46:21.704

Data Overview						
DATA FILE NAME	TelcoCustomerChurn			# OF ROWS / COLUMNS	7033 / 20	
FILE SIZE	870.87 KB			COUNT	7033	
FILE TYPE	csv			MISSING DATA	0	
Data Summary						
	MEAN	STD DEV	ZEROS	MIN	MEDIAN	MAX
PaperlessBilling	0	0	0	0	0	0
MultipleLines	0	0	0	0	0	0
gender	0	0	0	0	0	0
InternetService	0	0	0	0	0	0
StreamingMovies	0	0	0	0	0	0
OnlineSecurity	0	0	0	0	0	0
Churn	0	0	0	0	0	0
StreamingTV	0	0	0	0	0	0
SeniorCitizen	0.16	0	0	0	0	0
Dependents	0	0	0	0	0	0
DeviceProtection	0	0	0	0	0	0
OnlineBackup	0	0	0	0	0	0
MonthlyCharges	64.75	30.09	0	18.25	70.35	118.75
TotalCharges	0	0	0	0	0	0
PhoneService	0	0	0	0	0	0
PaymentMethod	0	0	0	0	0	0
TechSupport	0	0	0	0	0	0
Contract	0	0	0	0	0	0
Partner	0	0	0	0	0	0
tenure	32.36	24.56	11	0	29	72

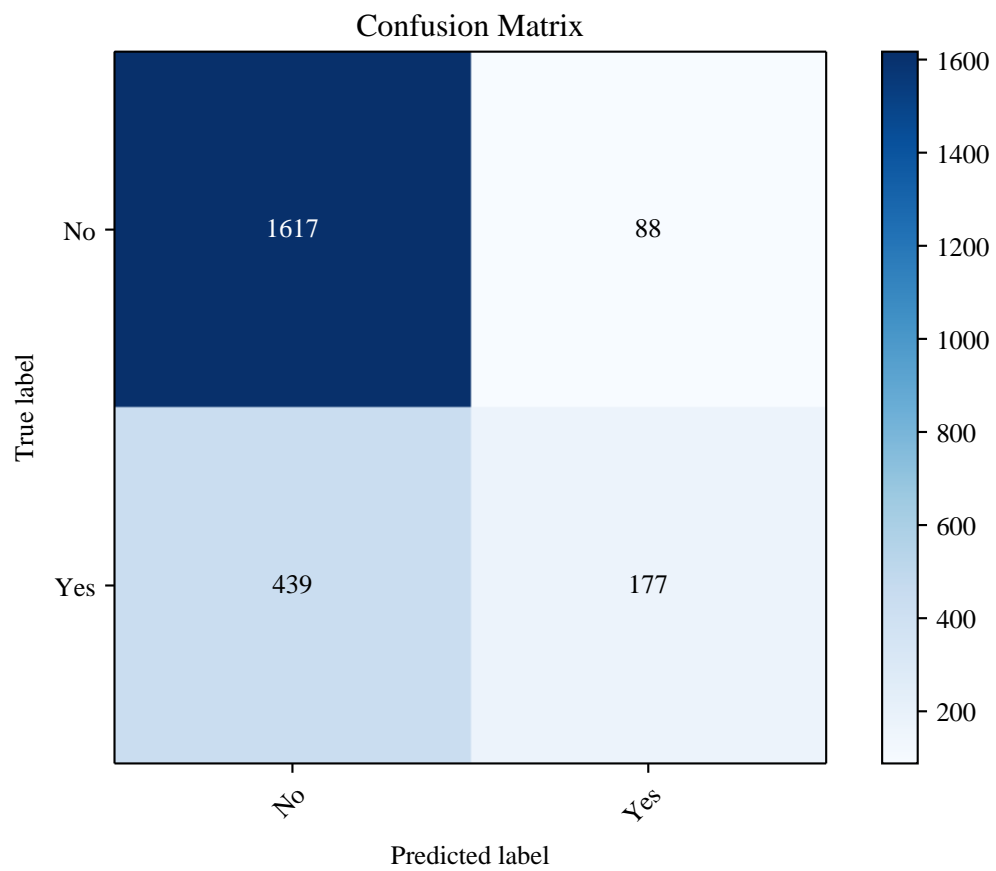
DATA IMBALANCE - TelcoCustomerChurn.csv(test proj 4)

Date Imbalance Frequency Distribution



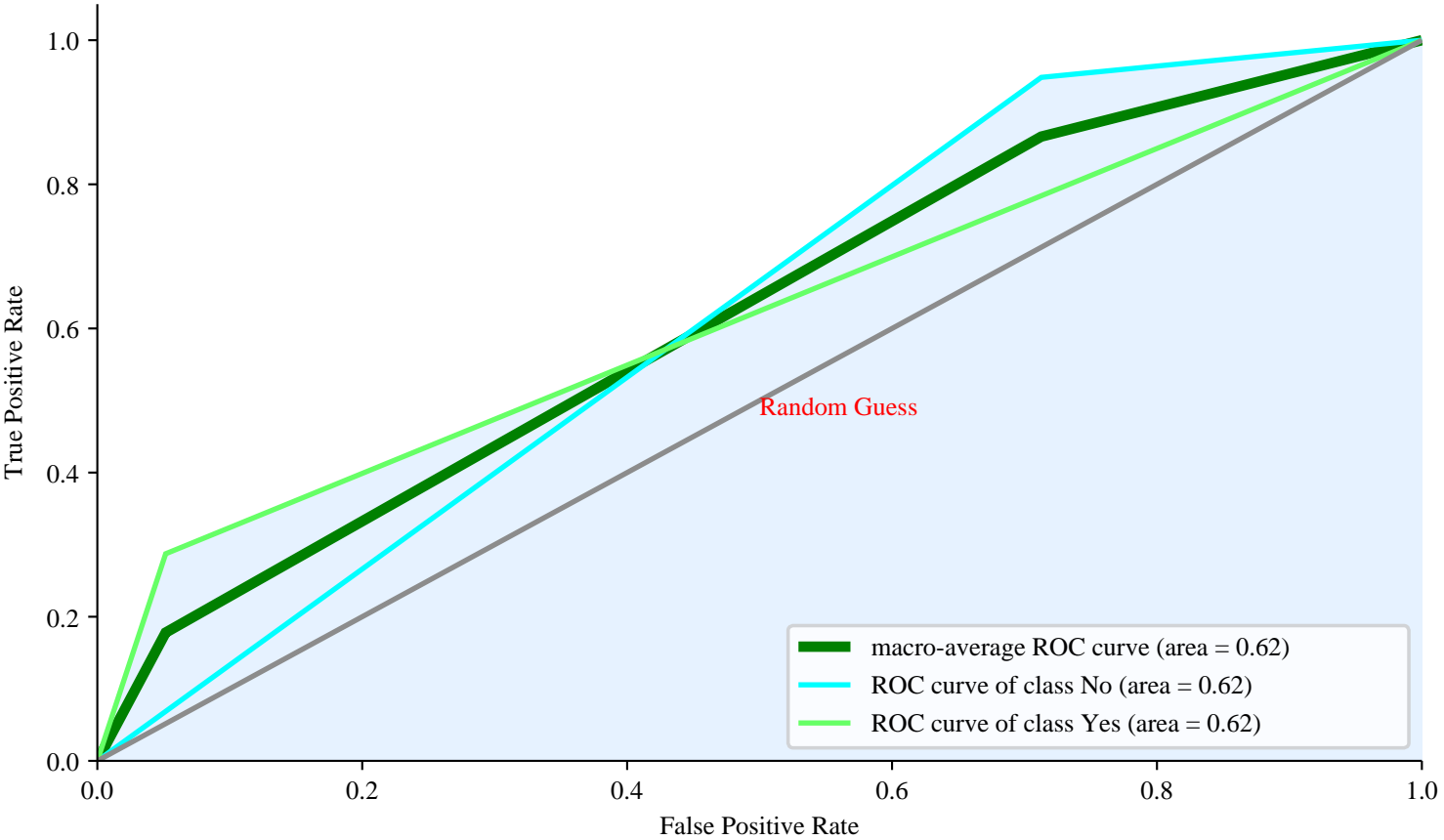
MODEL METRICS VALIDATION - TelcoCustomerChurn.csv(test proj 4)

Confusion Matrix

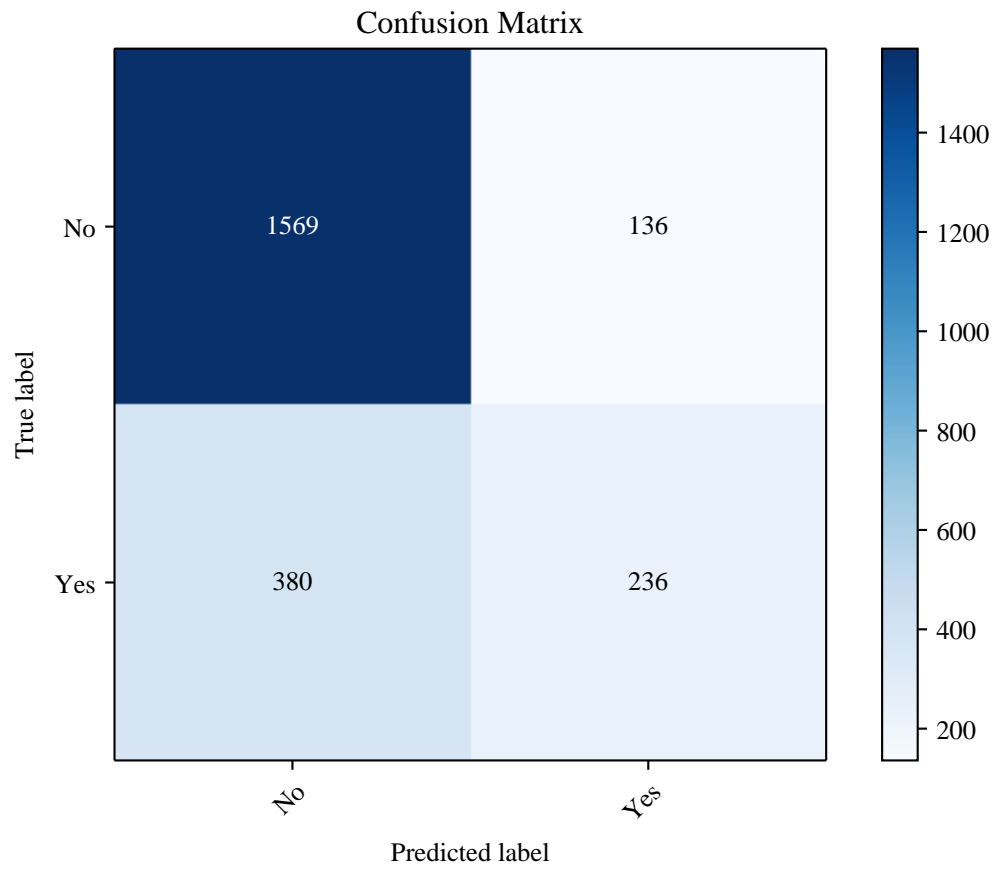


ROC + AUC CURVE

Receiver Operating Characteristic

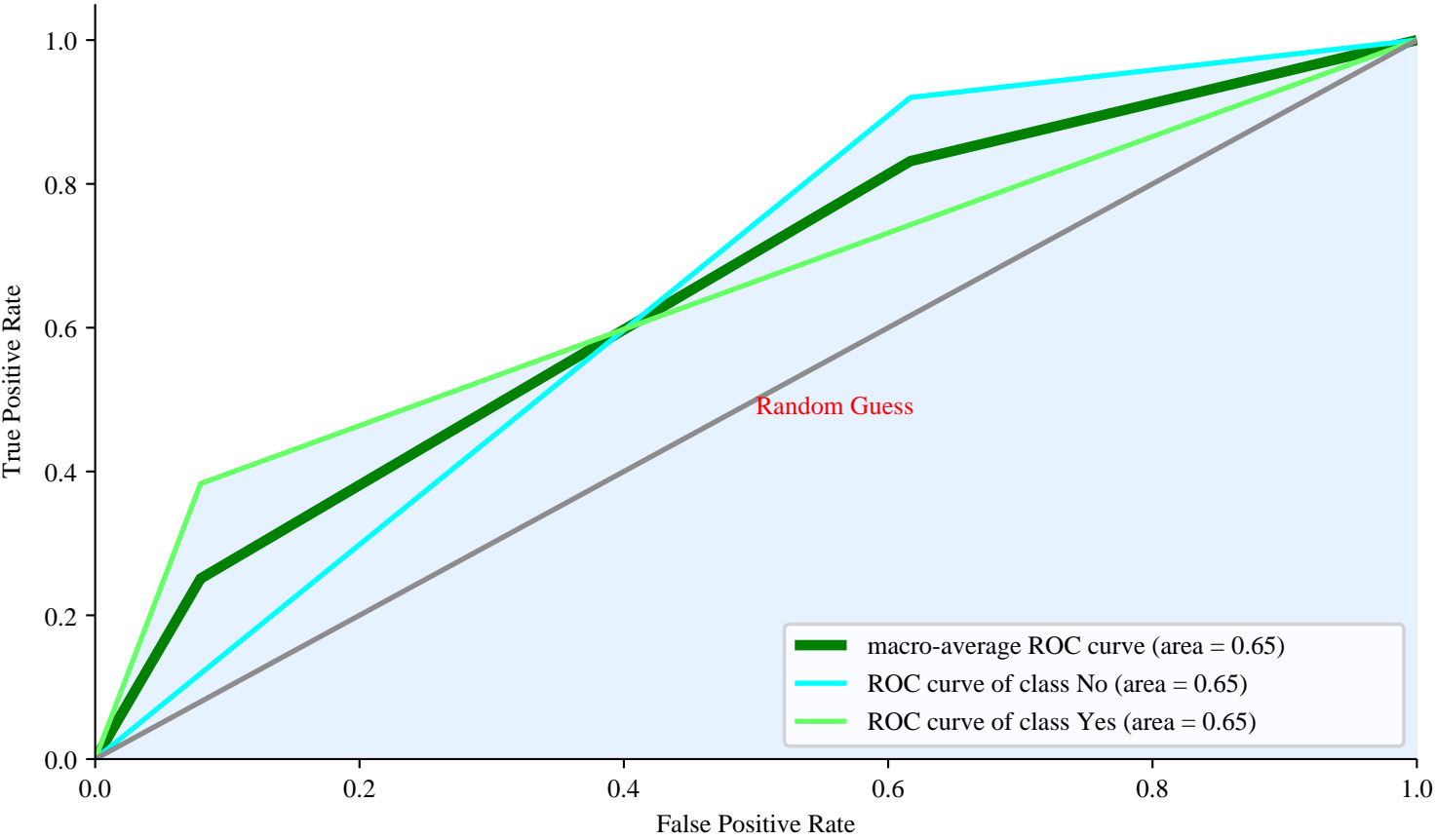


Confusion Matrix



ROC + AUC CURVE

Receiver Operating Characteristic



CONTRAST OF EXPLANATION

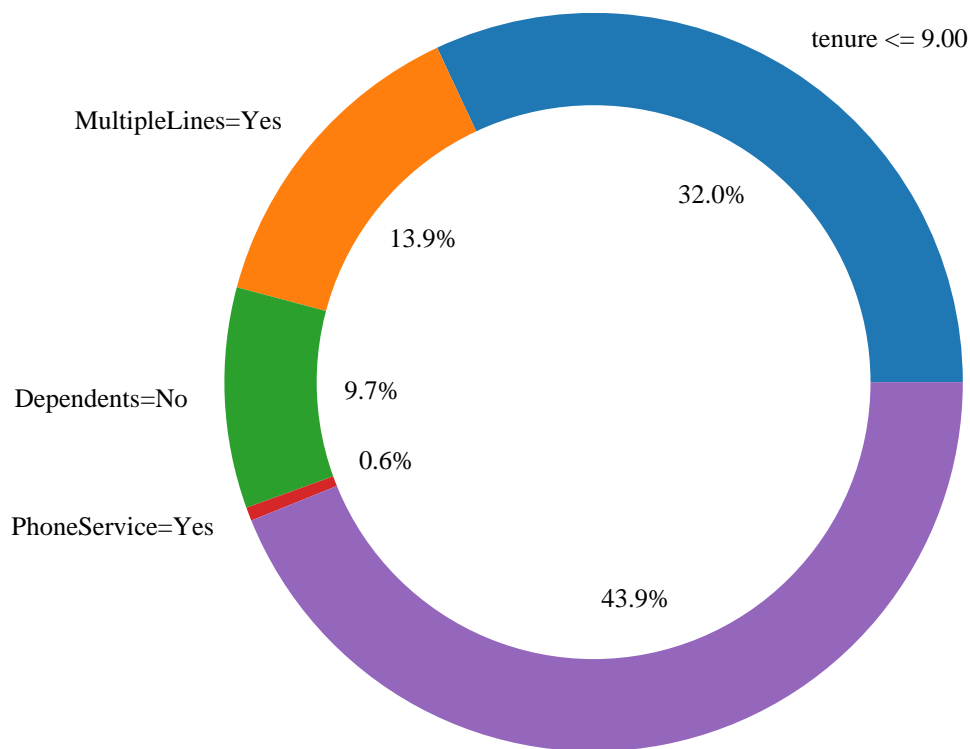
The model predicted Yes because tenure ≤ 9.00 , MultipleLines=Yes, SeniorCitizen ≤ 0.00 , Dependents=No, Partner=No, PhoneService=Yes, gender=Female

EXPLAINABILITY CHECK - TelcoCustomerChurn.csv(test proj 4)

Contrast Positive Features

This graph show features which make stronger the predicted for class

Positive impact of features for class Yes

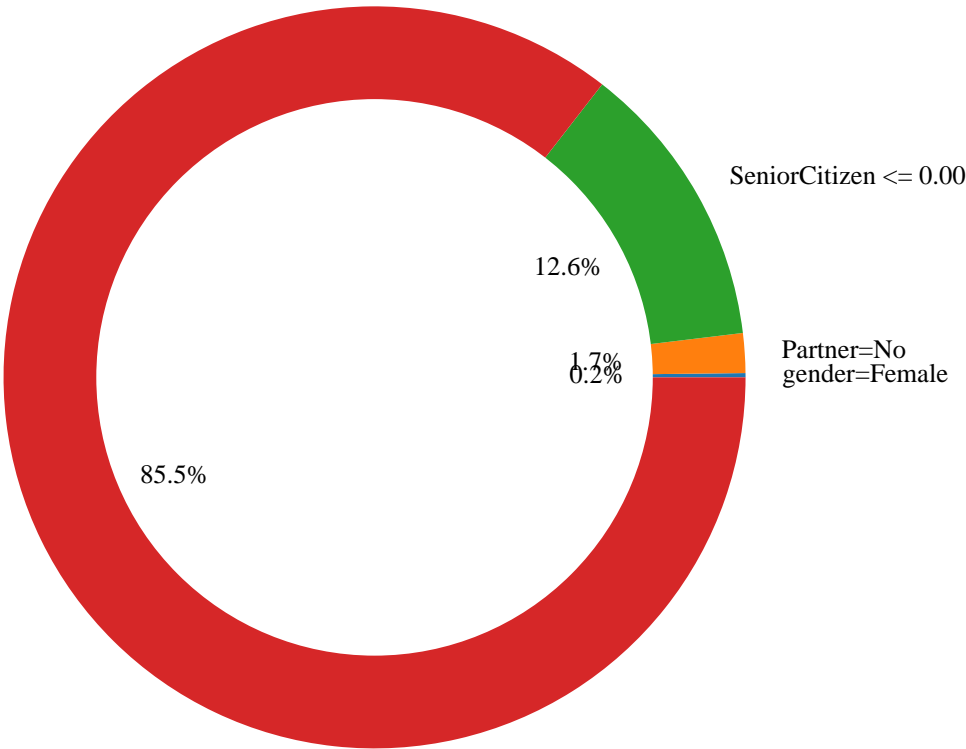


EXPLAINABILITY CHECK - TelcoCustomerChurn.csv(test proj 4)

Contrast Negative Features

This graph show features which make weaker the predicted for class

Negative impact of features for class Yes



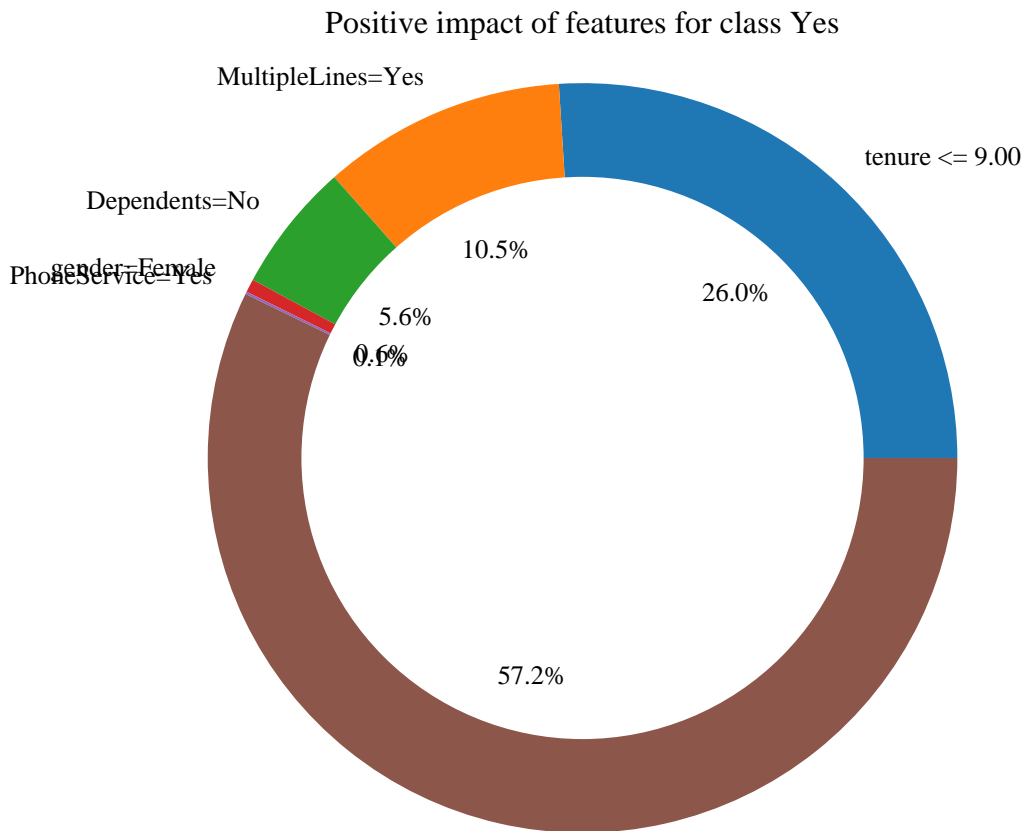
CONTRAST OF EXPLANATION

The model predicted Yes because tenure ≤ 9.00 , MultipleLines=Yes, Dependents=No, SeniorCitizen ≤ 0.00 , Partner=No, gender=Female, PhoneService=Yes

EXPLAINABILITY CHECK - TelcoCustomerChurn.csv(test proj 4)

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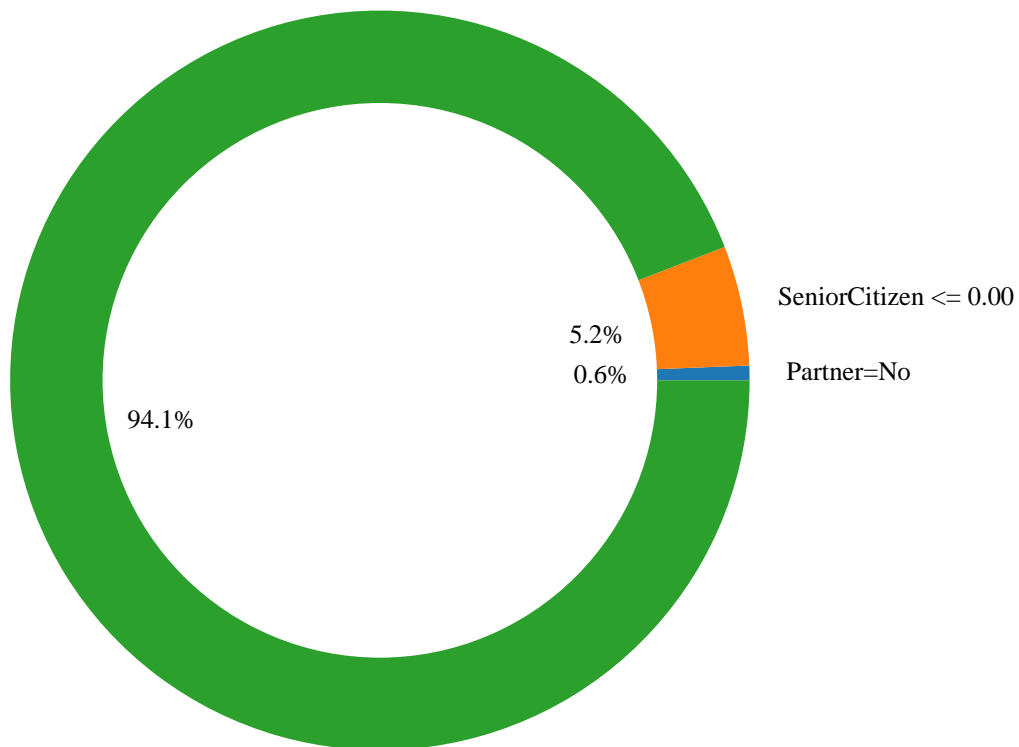


EXPLAINABILITY CHECK - TelcoCustomerChurn.csv(test proj 4)

Contrast Negative Features

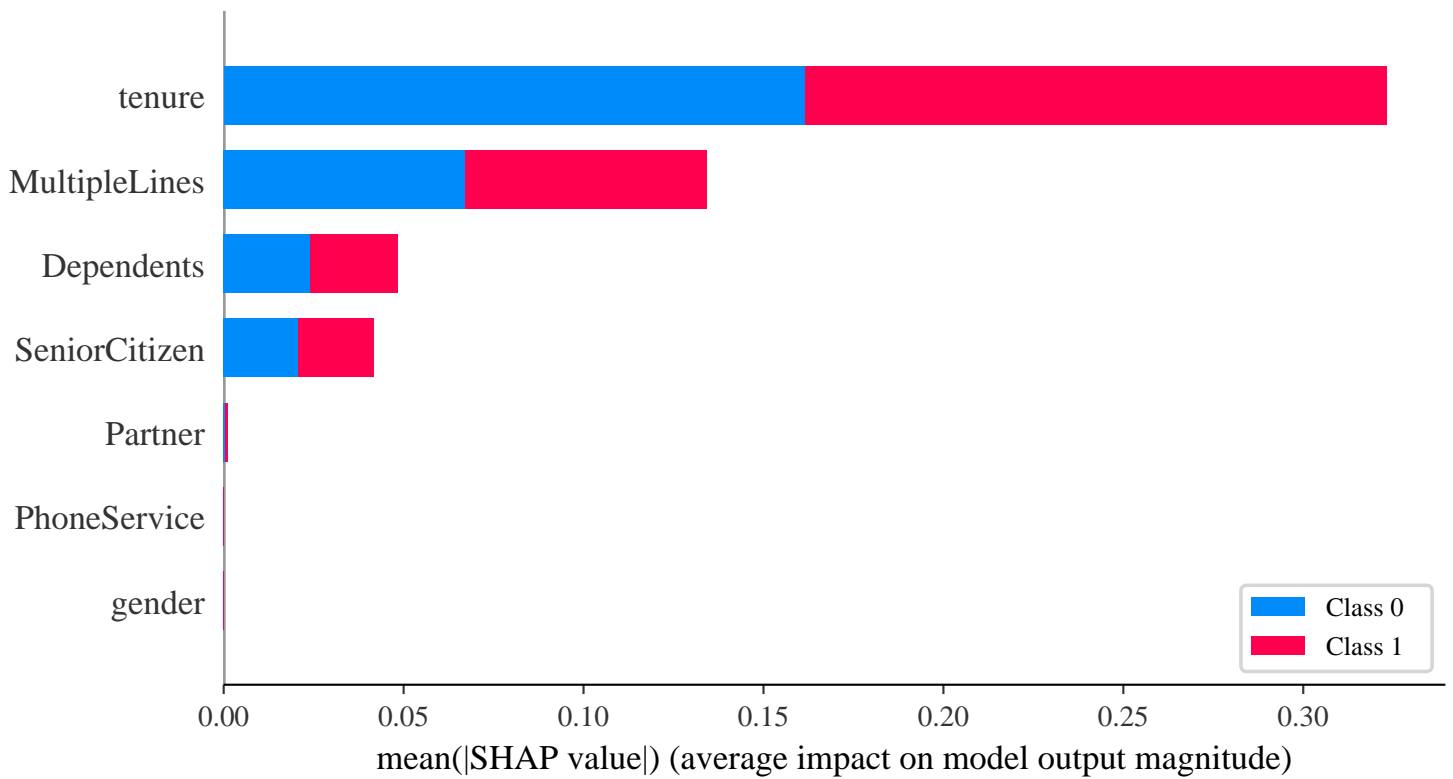
This graph show features which make weaker the predicted for class

Negative impact of features for class Yes

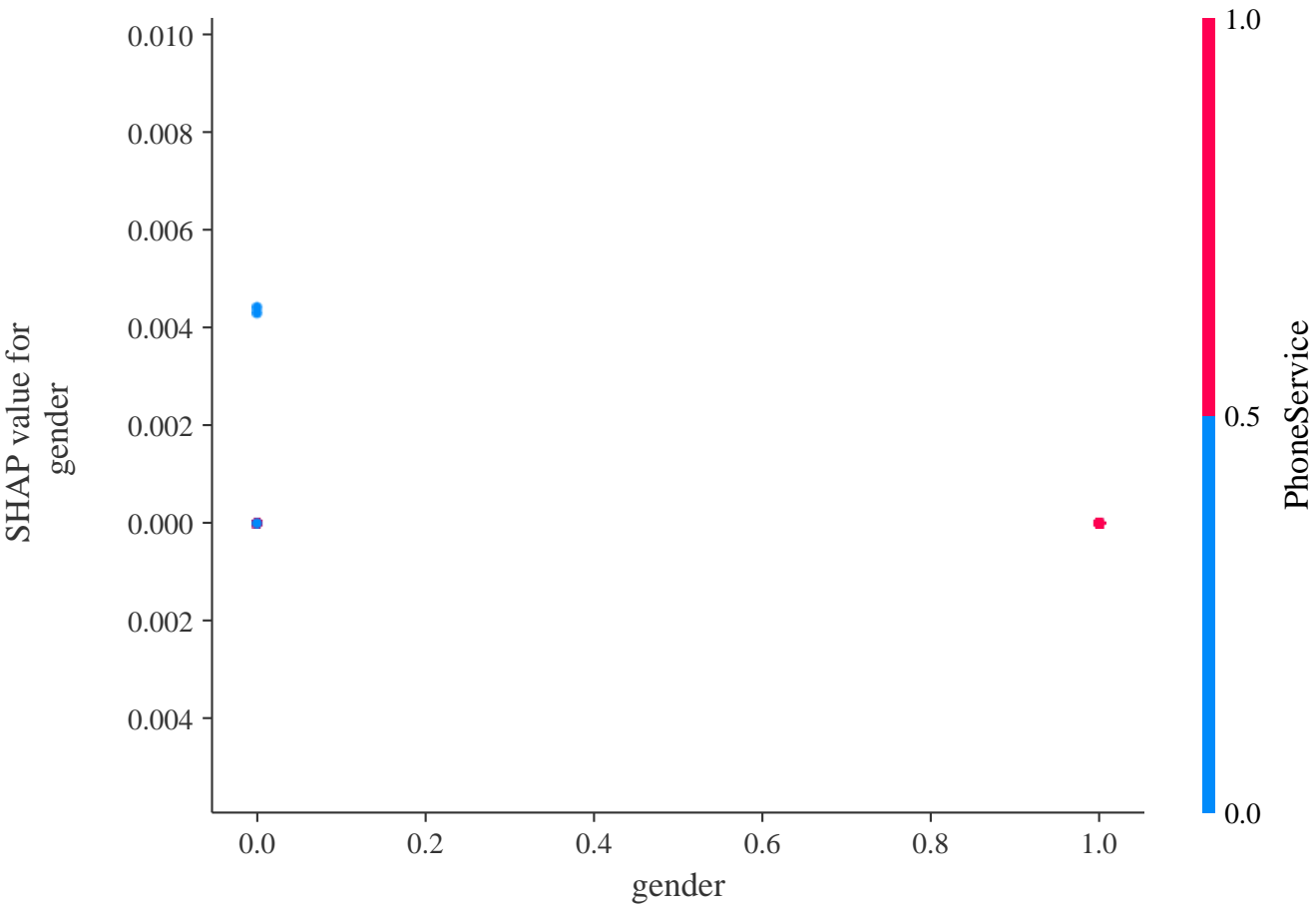


SHAP EXPLANATION - TelcoCustomerChurn.csv(test proj 4)

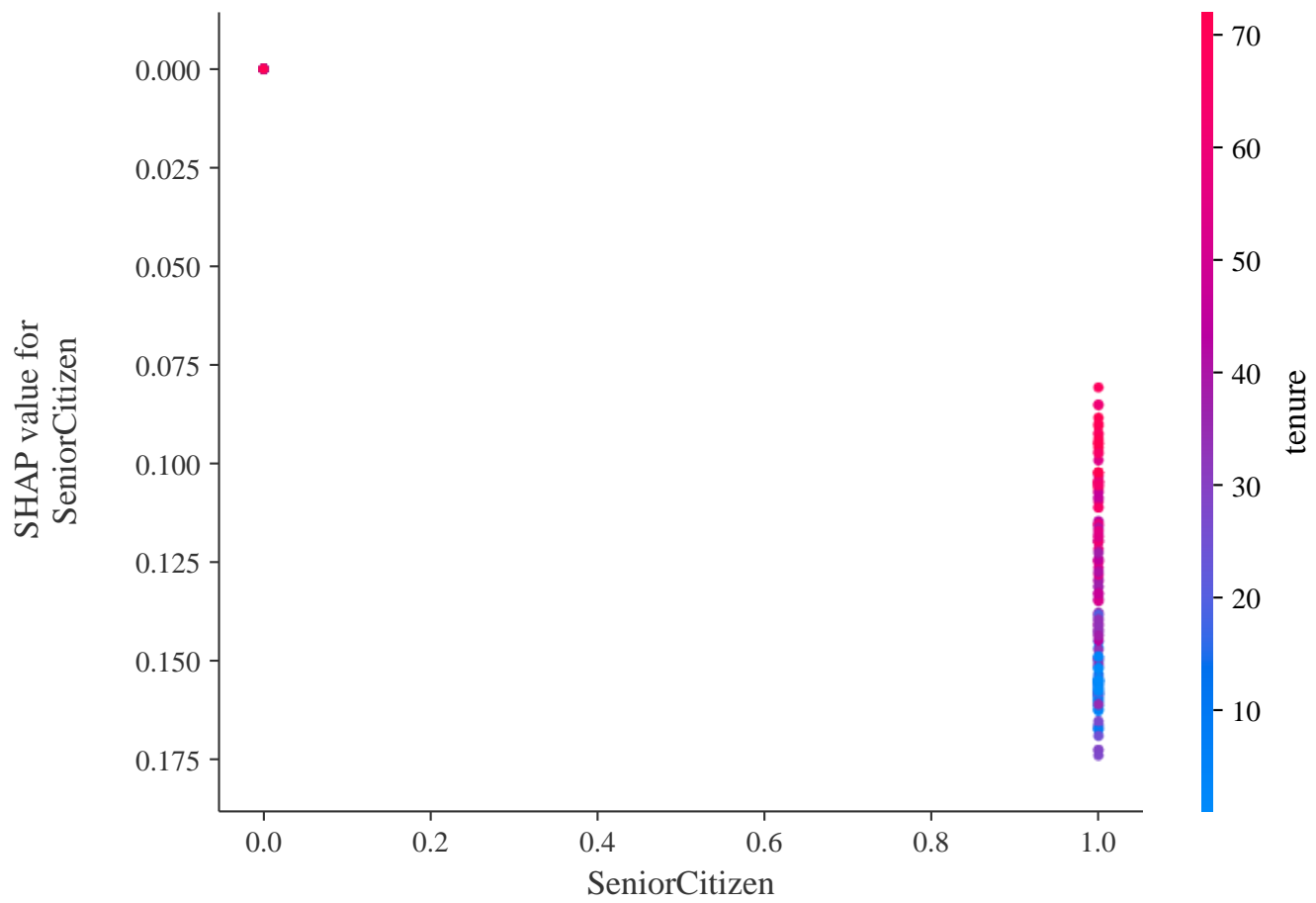
Top Contributing Features



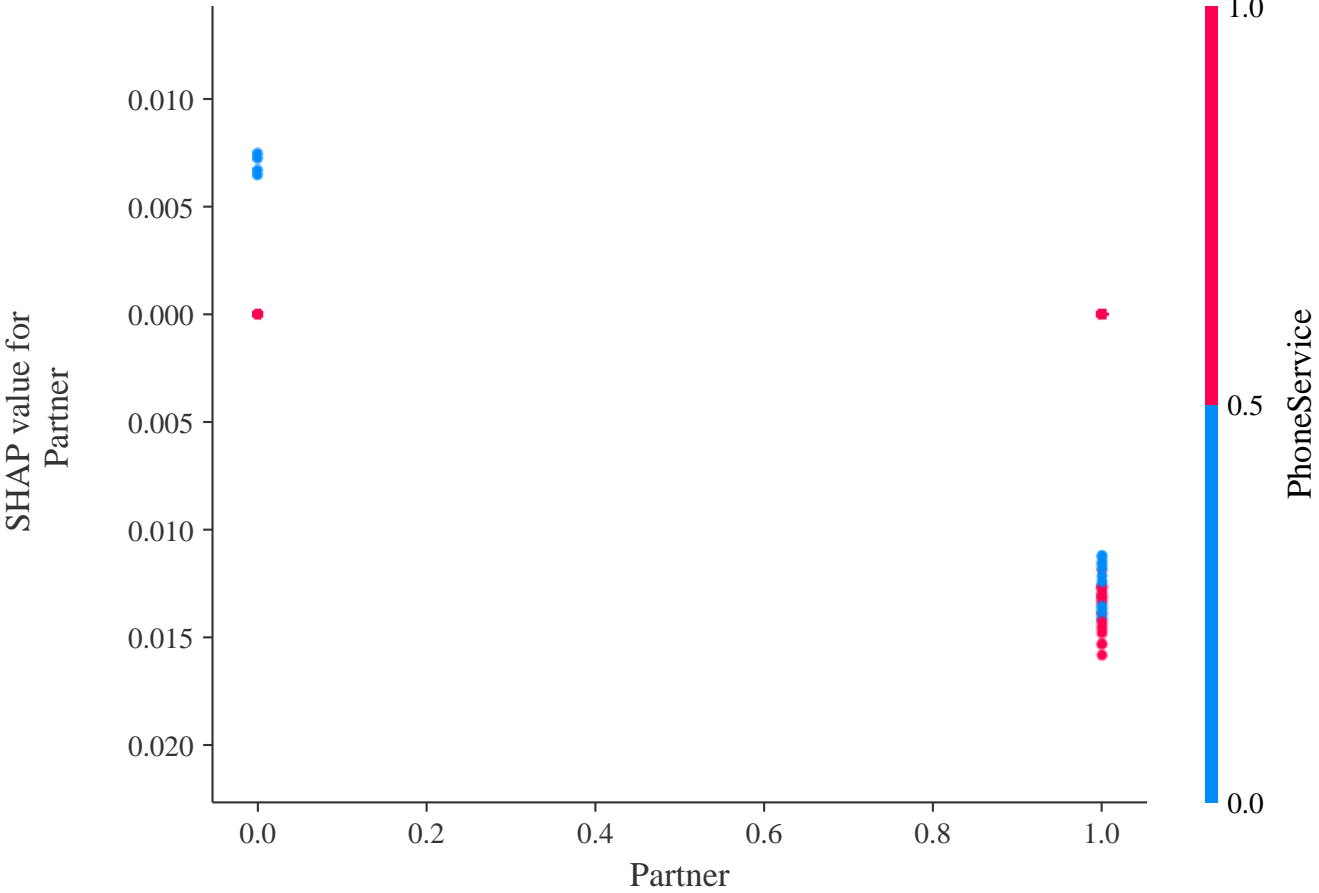
Dependence Plots



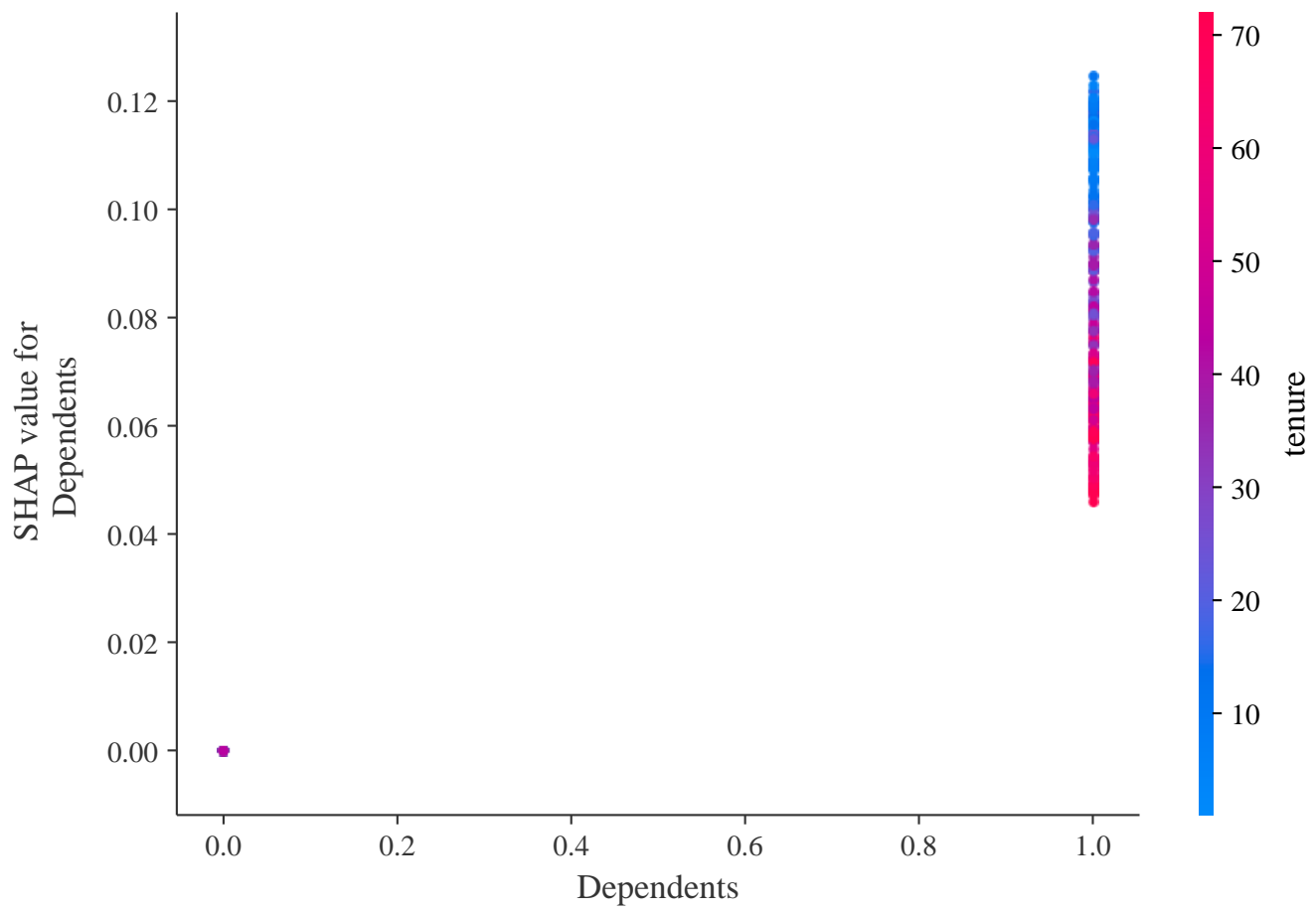
Dependence Plots



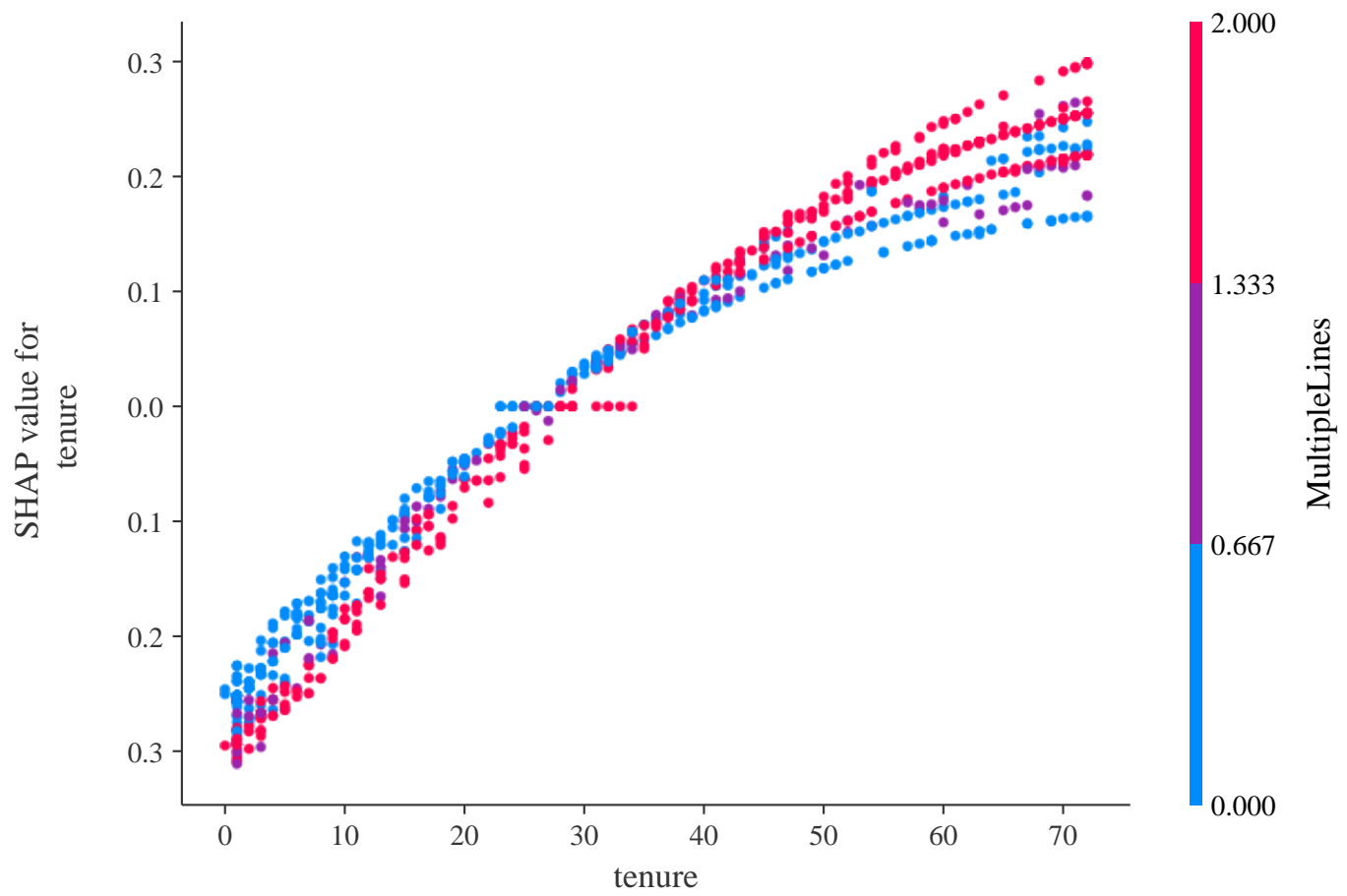
Dependence Plots



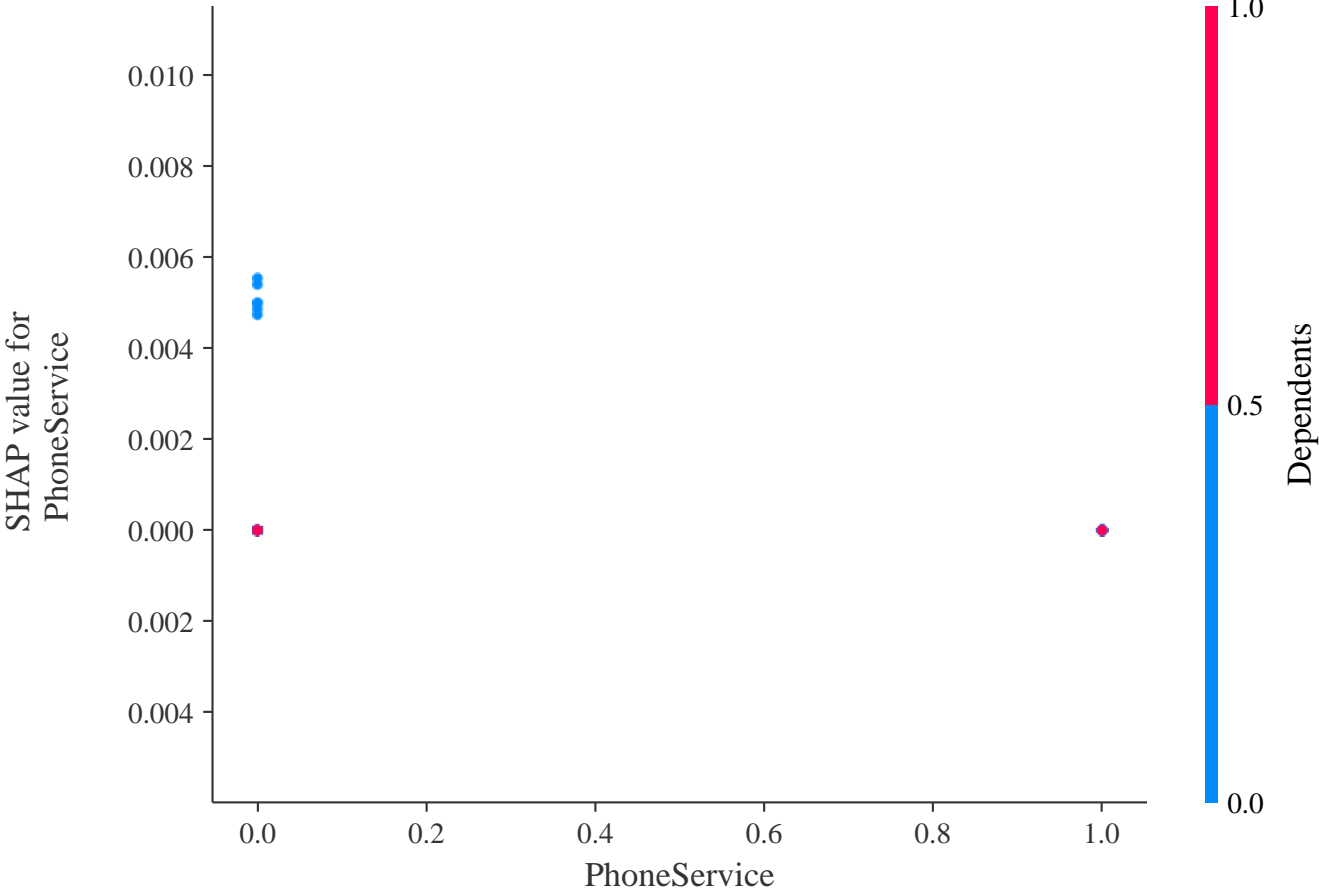
Dependence Plots



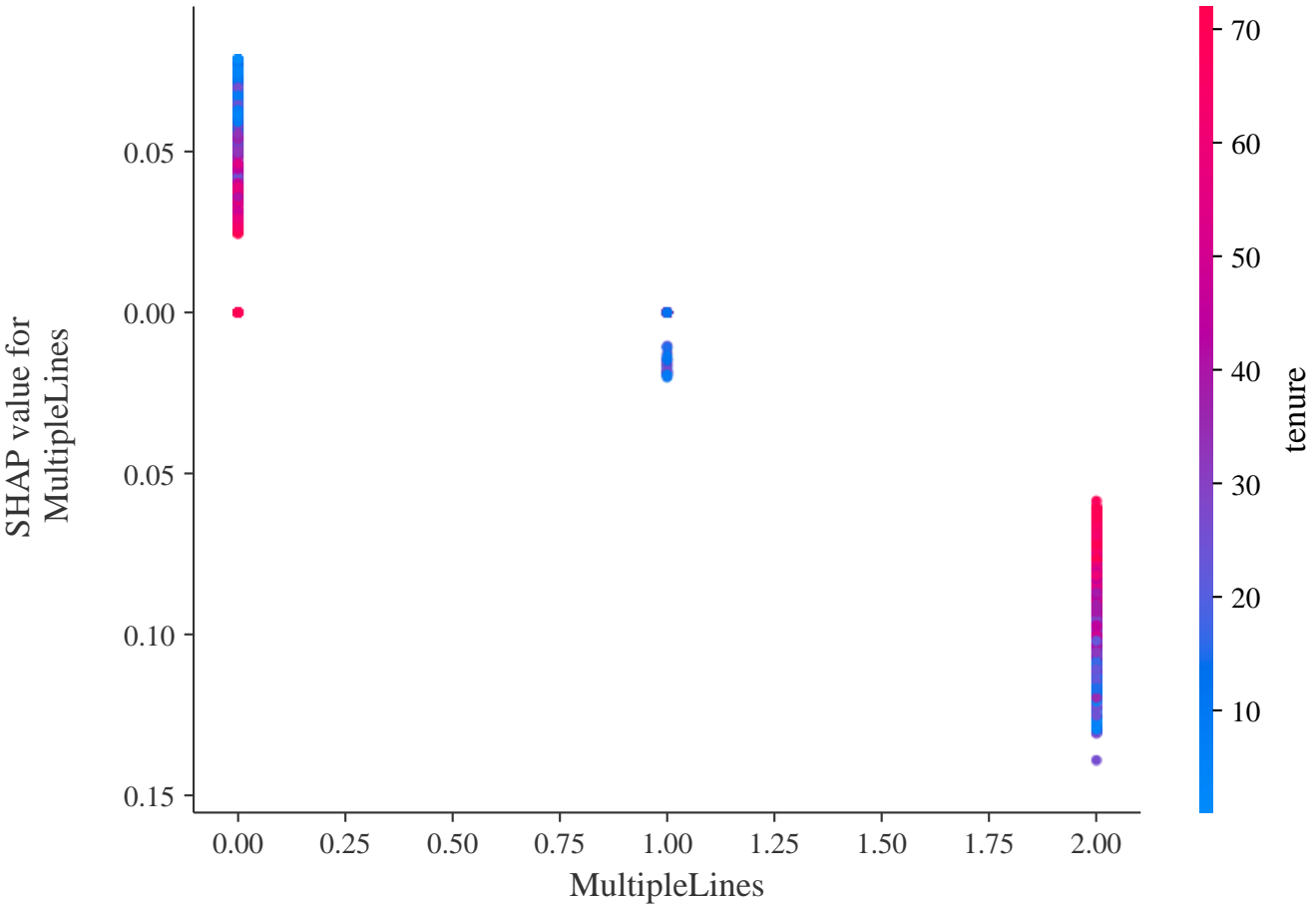
Dependence Plots



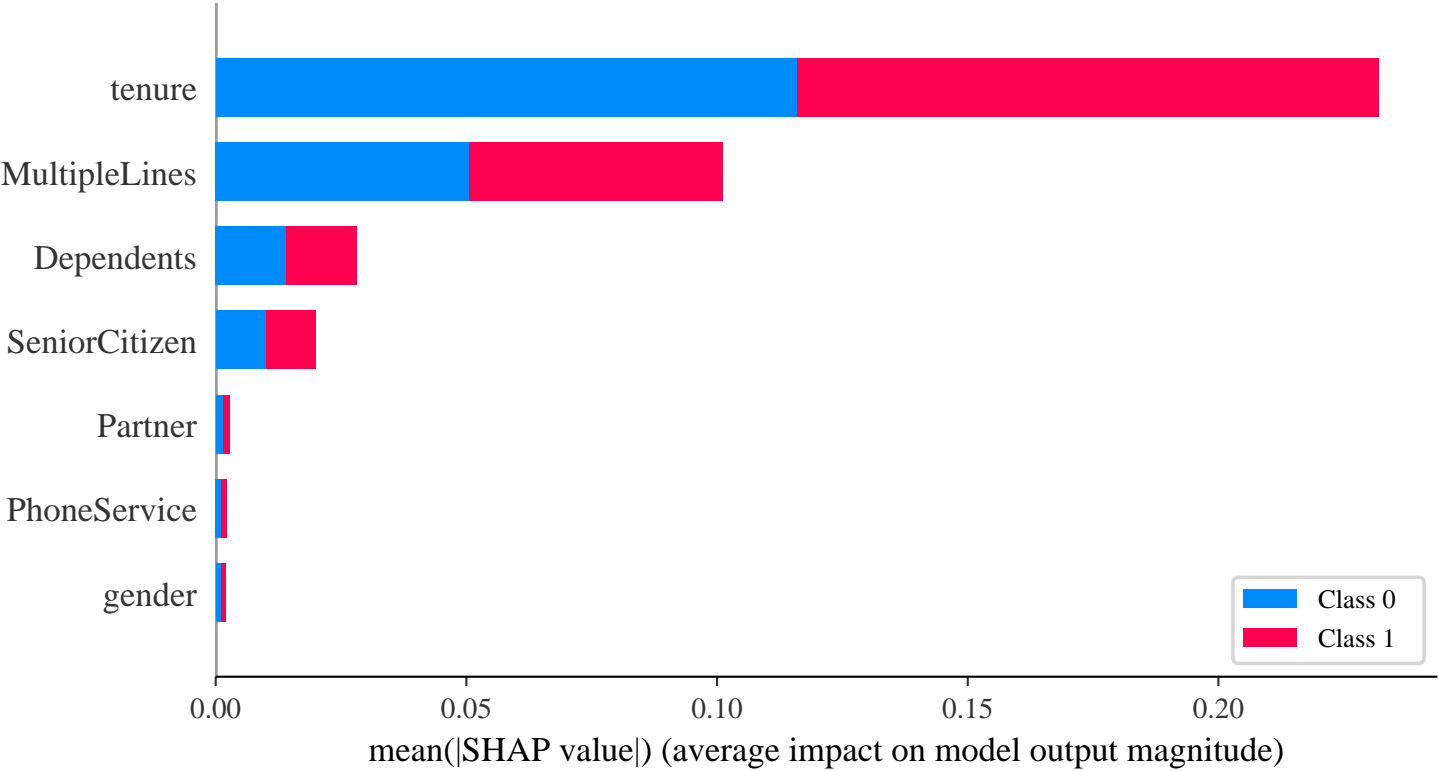
Dependence Plots



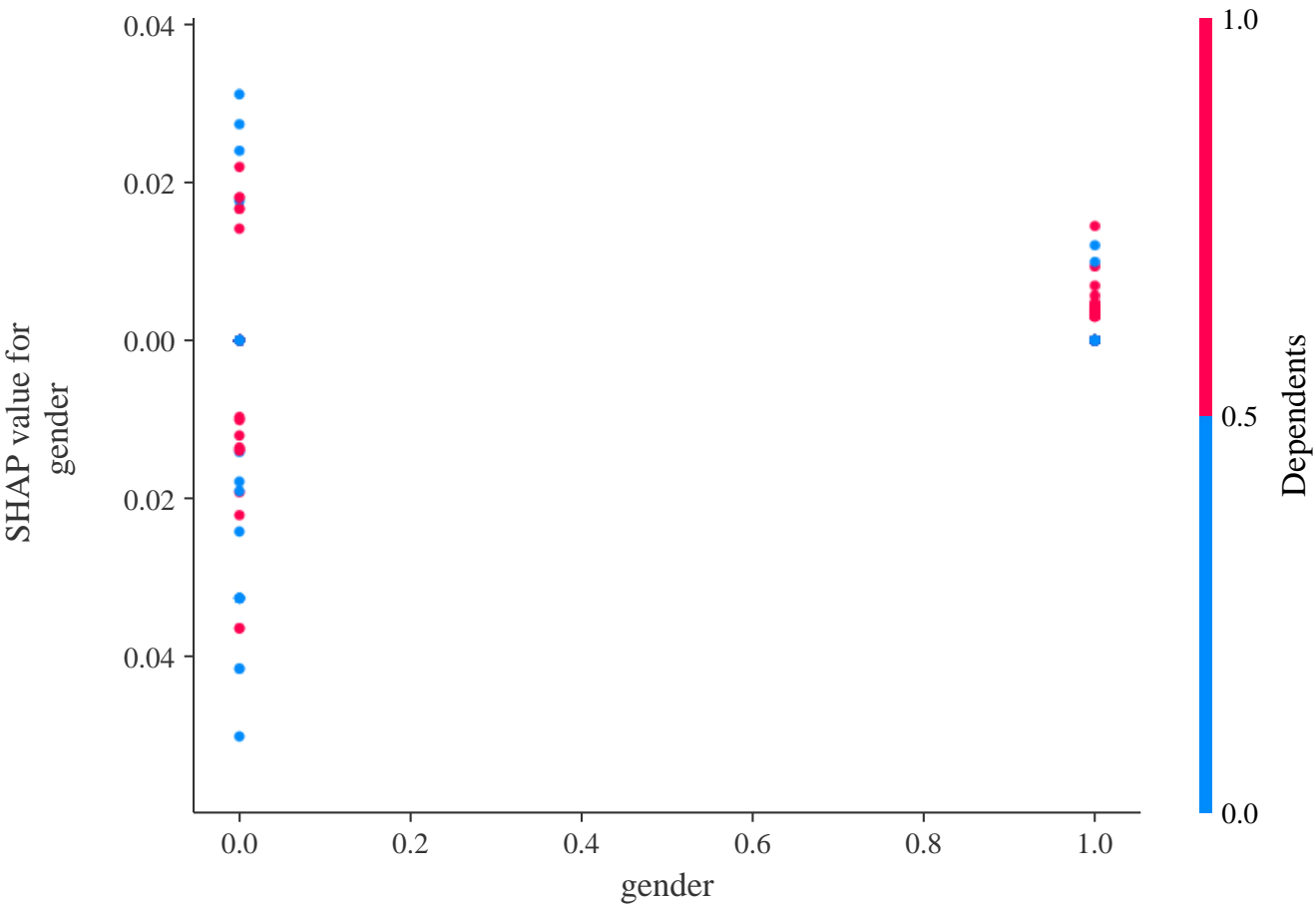
Dependence Plots



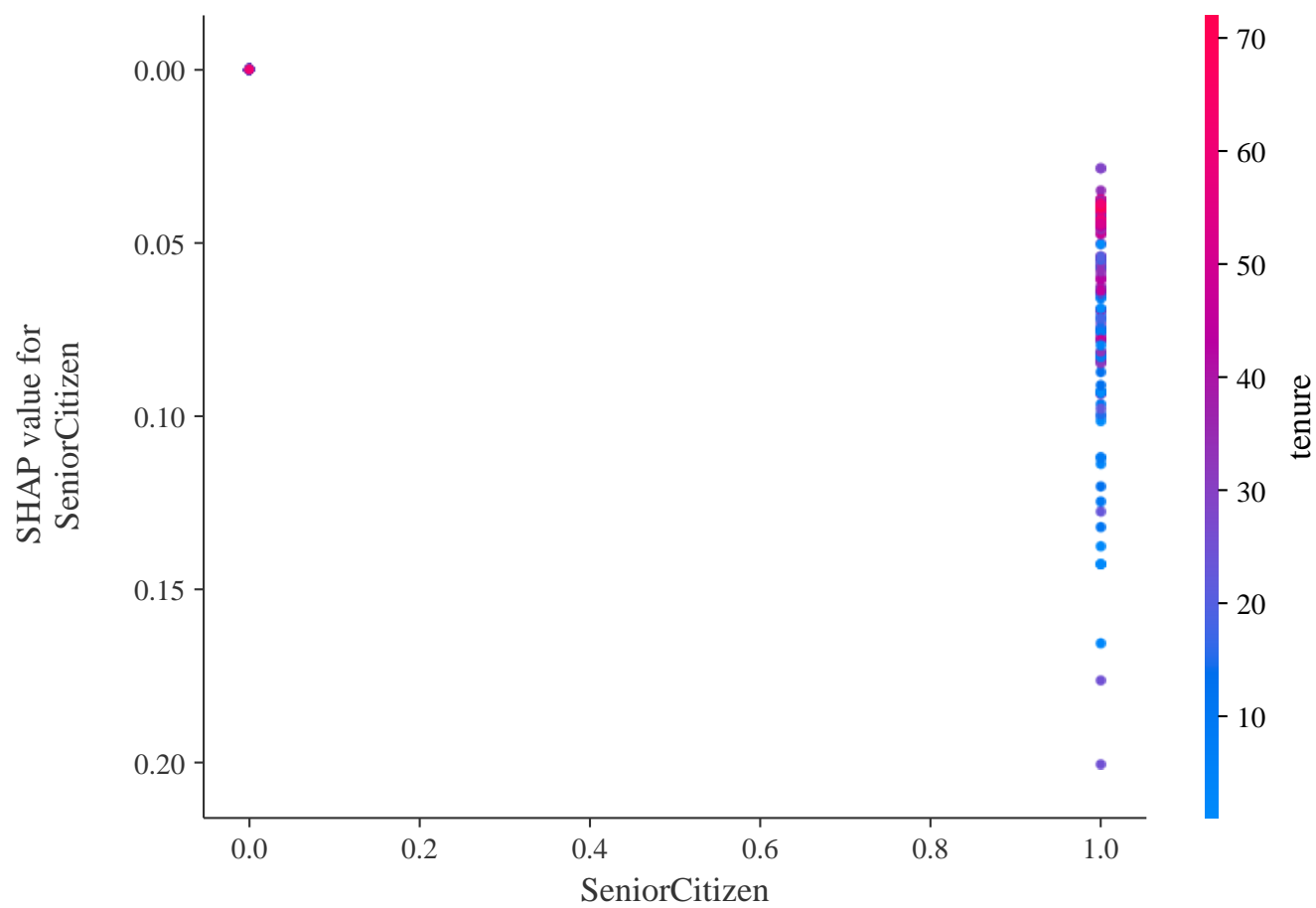
Top Contributing Features



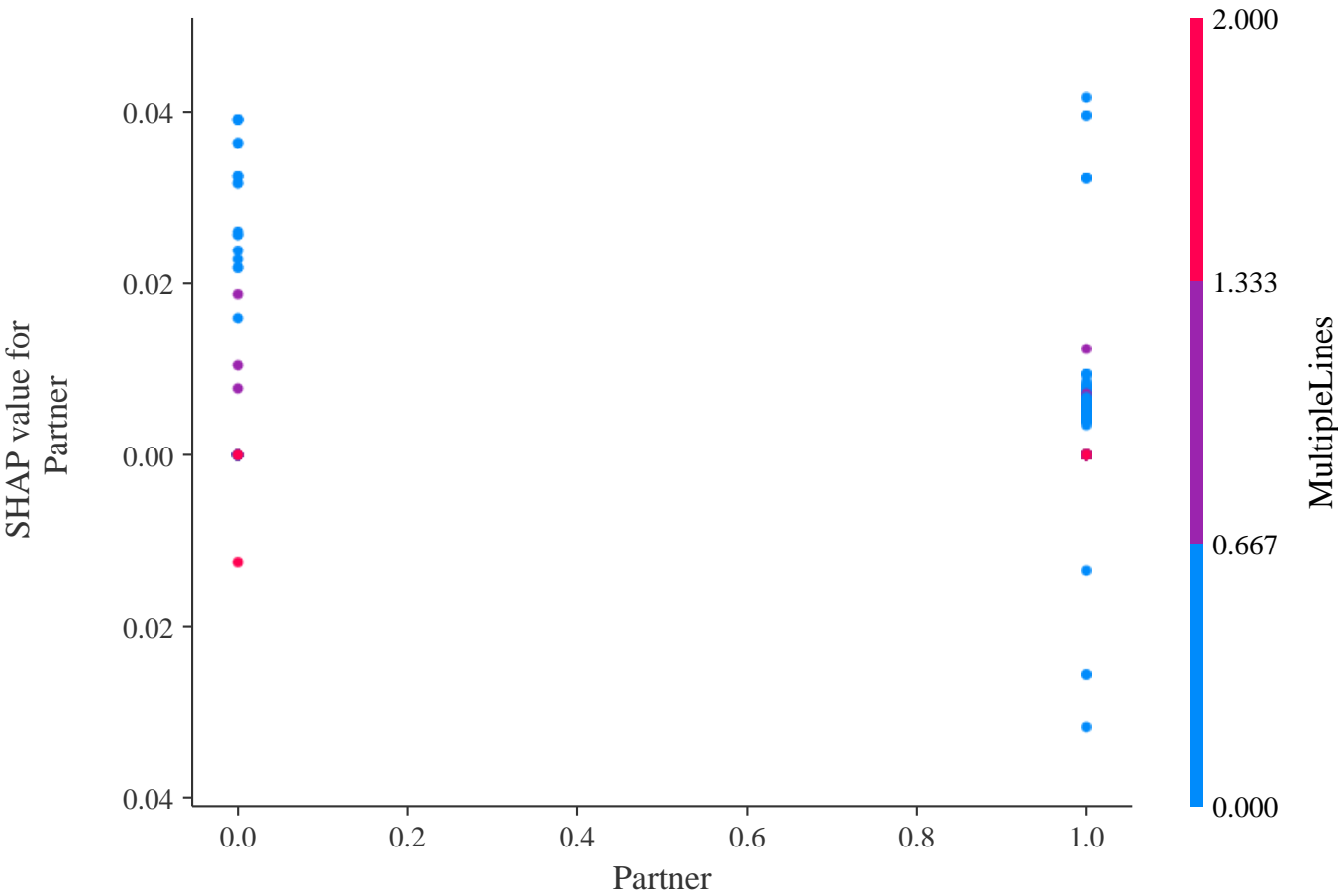
Dependence Plots



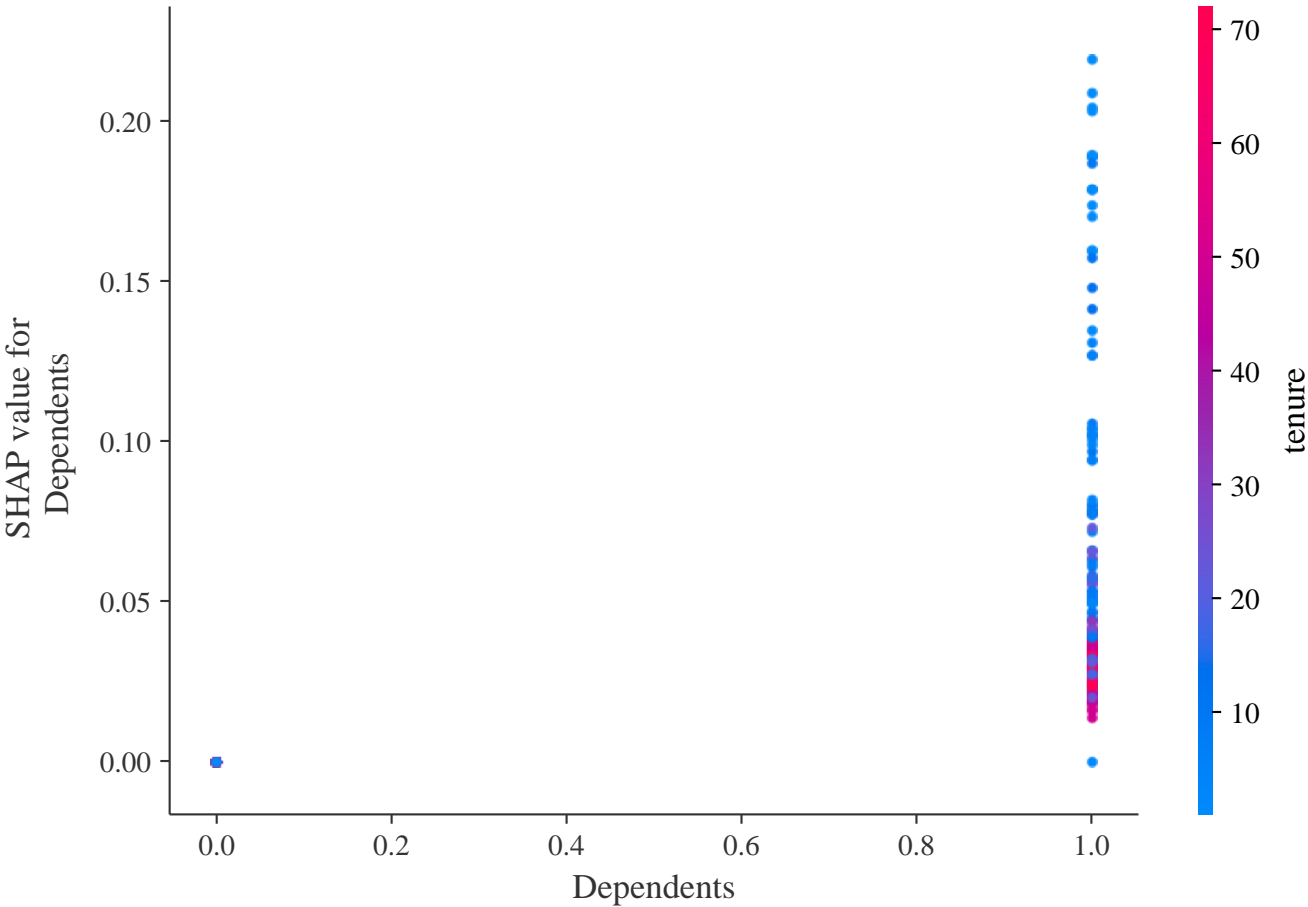
Dependence Plots



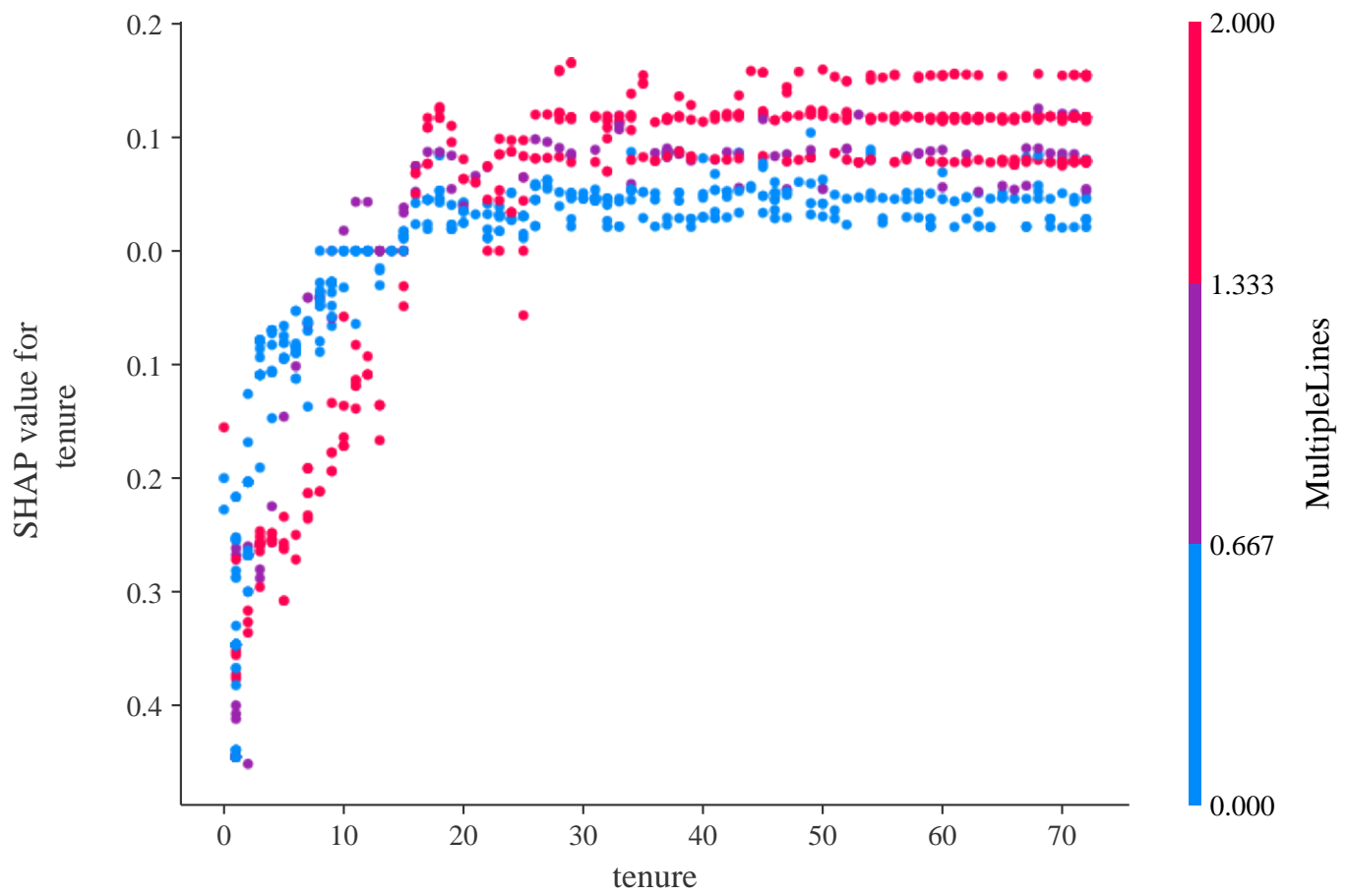
Dependence Plots



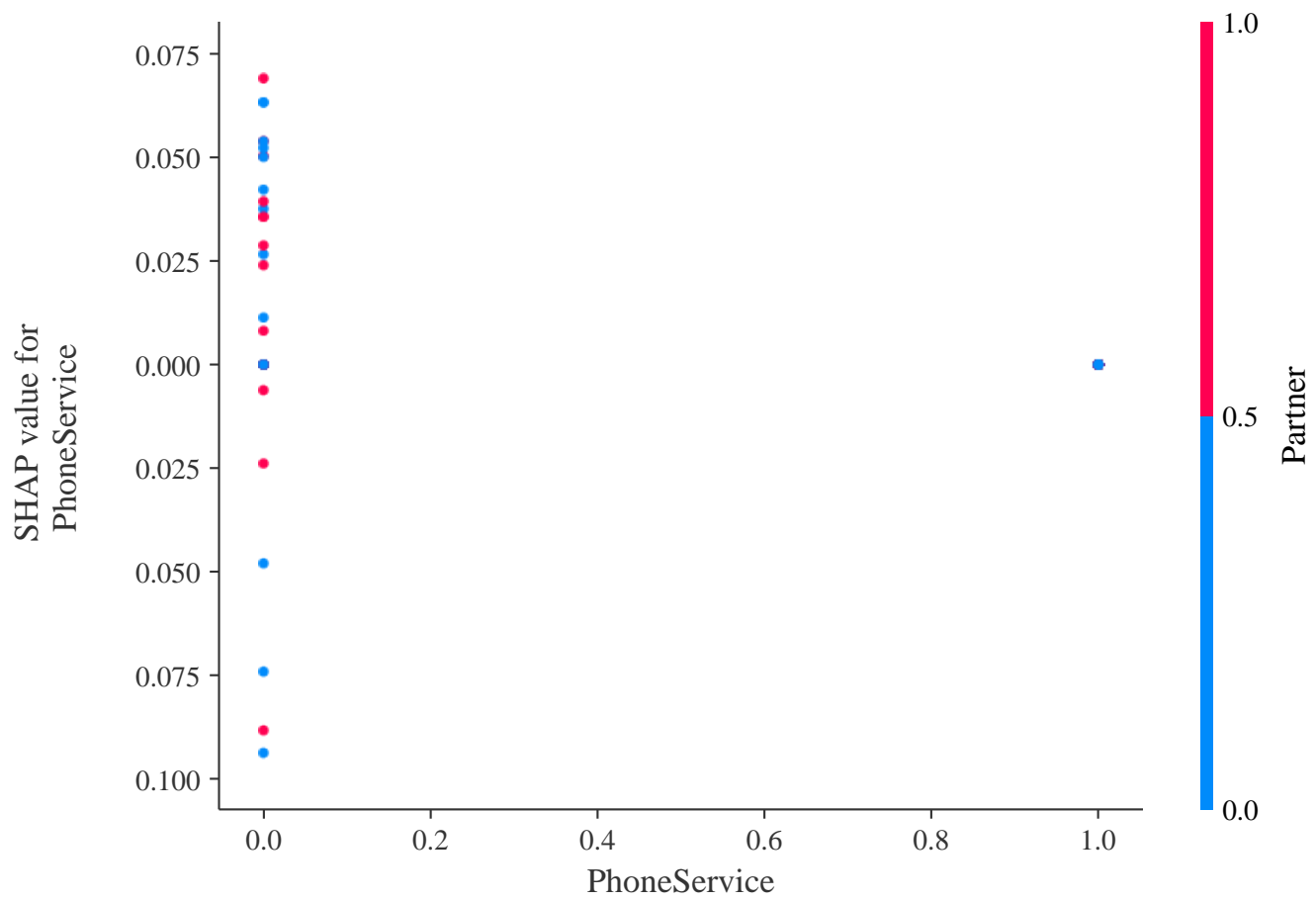
Dependence Plots



Dependence Plots



Dependence Plots



Dependence Plots

