

Overview

Overview

Alerts26

Reproduction

Dataset statistics

Number of variables	20
Number of observations	7043
Missing cells	0
Missing cells (%)	0.0%
Duplicate rows	20
Duplicate rows (%)	0.3%
Total size in memory	1.1 MiB
Average record size in memory	160.0 B

Variable types

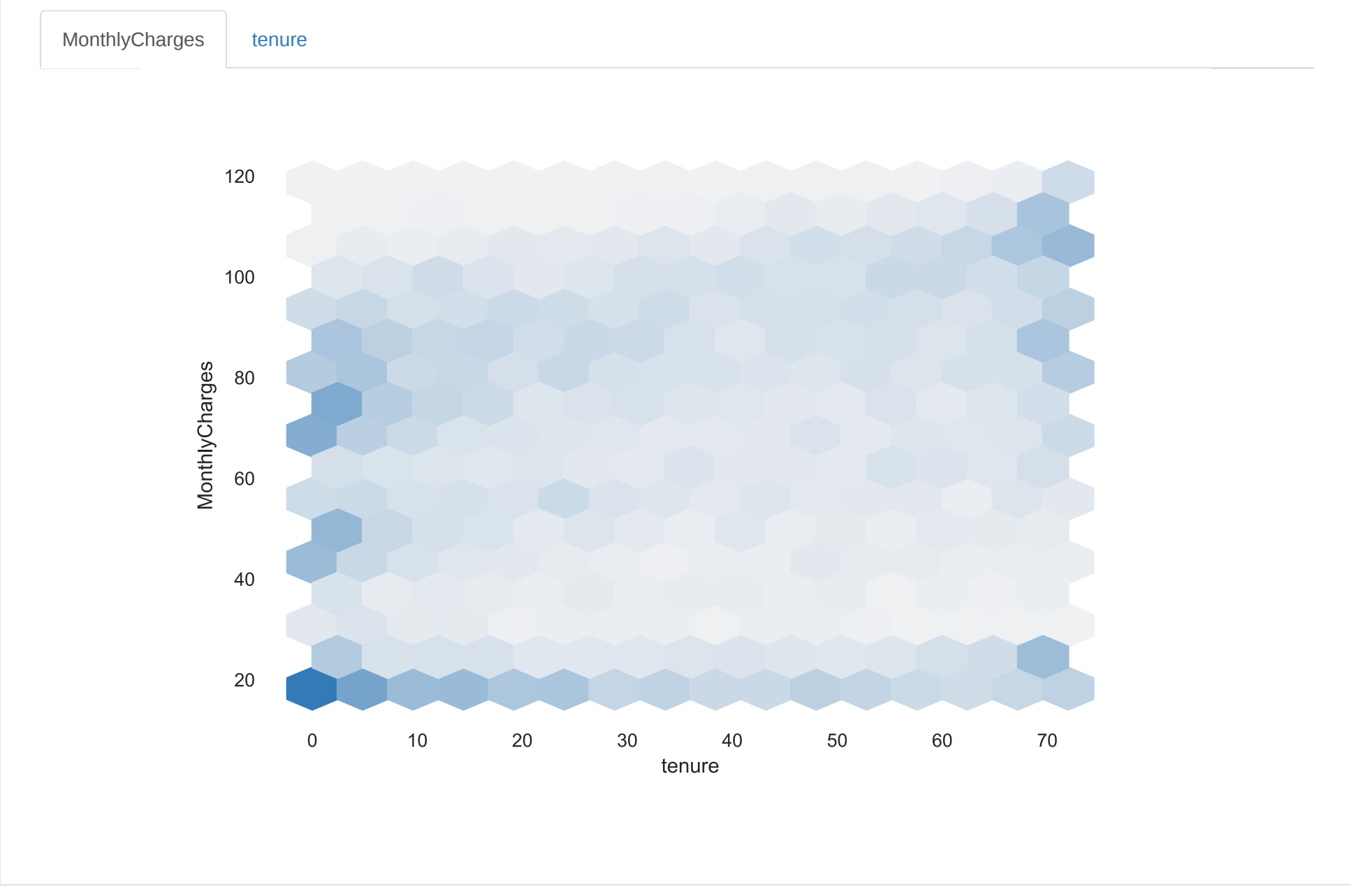
Categorical	13
Boolean	5
Numeric	2

Variables

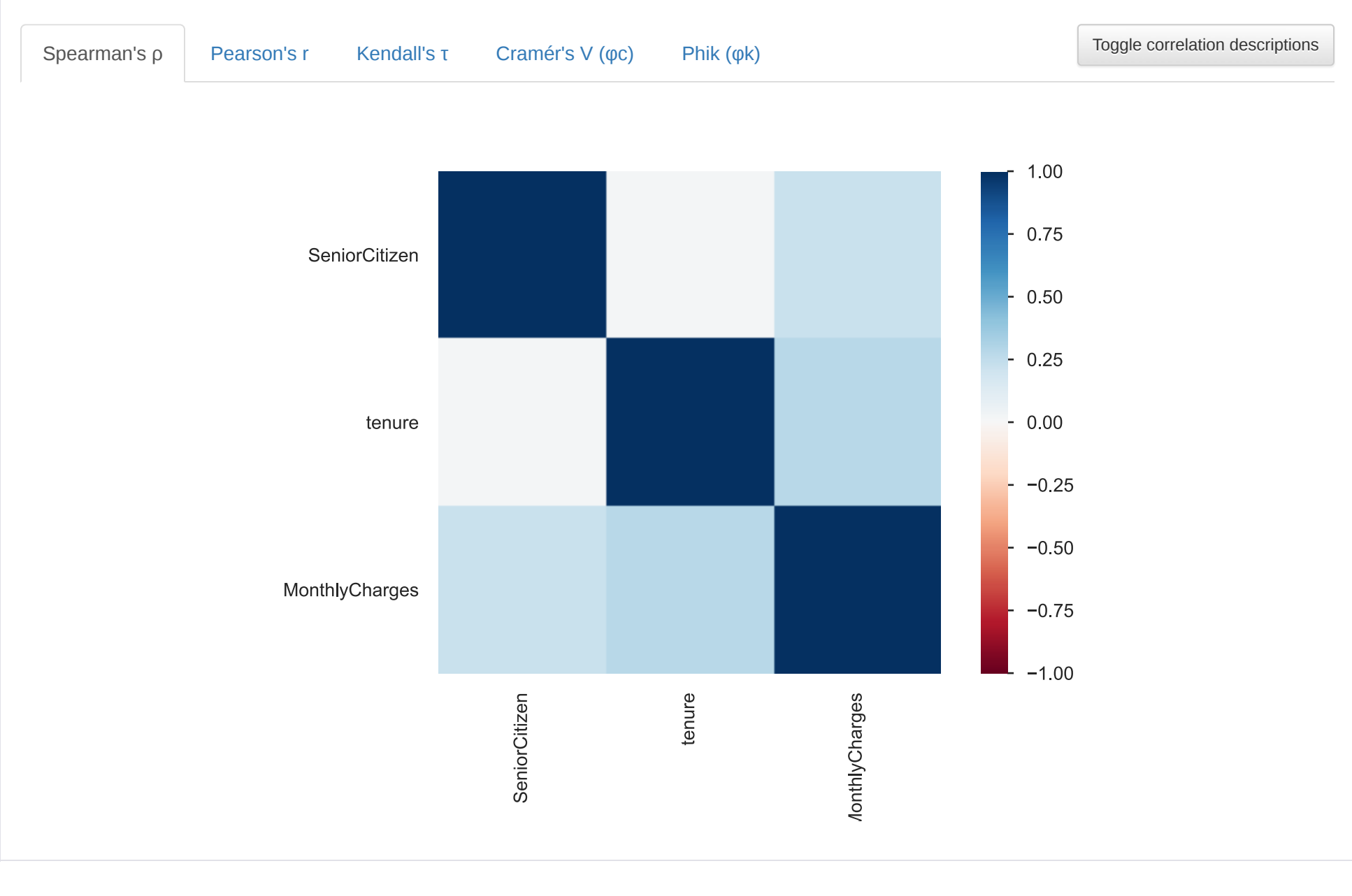
Variables

gender Categorical	Distinct 2 Distinct (%) < 0.1% Missing 0 Missing (%) 0.0% Memory size 55.1 KiB	Male 3555 Female 3488	
SeniorCitizen Categorical	Distinct 2 Distinct (%) < 0.1% Missing 0 Missing (%) 0.0% Memory size 55.1 KiB	0 5901 1 1142	
Partner Boolean HIGH CORRELATION	Distinct 2 Distinct (%) < 0.1% Missing 0 Missing (%) 0.0% Memory size 7.0 KiB	False 3541 True 3402	
Dependents Boolean HIGH CORRELATION	Distinct 2 Distinct (%) < 0.1% Missing 0 Missing (%) 0.0% Memory size 7.0 KiB	False 4933 True 2110	
tenure Real number (R _{nd}) HIGH CORRELATION	Distinct 73 Distinct (%) 1.0% Missing 0 Missing (%) 0.0% Infinite 0 Infinite (%) 0.0% Mean 32.37114866	Minimum 0 Maximum 72 Zeros 11 Zeros (%) 0.2% Negative 0 Negative (%) 0.0% Memory size 55.1 KiB	
PhoneService Boolean HIGH CORRELATION HIGH CORRELATION	Distinct 2 Distinct (%) < 0.1% Missing 0 Missing (%) 0.0% Memory size 7.0 KiB	True 6361 False 682	
MultipleLines Categorical HIGH CORRELATION HIGH CORRELATION	Distinct 3 Distinct (%) < 0.1% Missing 0 Missing (%) 0.0% Memory size 55.1 KiB	No 3380 Yes 2971 No phone service 682	
InternetService Categorical HIGH CORRELATION HIGH CORRELATION	Distinct 3 Distinct (%) < 0.1% Missing 0 Missing (%) 0.0% Memory size 55.1 KiB	Fiber optic 3696 DSL 2421 No 1529	
OnlineSecurity Categorical HIGH CORRELATION HIGH CORRELATION	Distinct 3 Distinct (%) < 0.1% Missing 0 Missing (%) 0.0% Memory size 55.1 KiB	No 3498 Yes 2019 No internet service 1526	
OnlineBackup Categorical HIGH CORRELATION HIGH CORRELATION	Distinct 3 Distinct (%) < 0.1% Missing 0 Missing (%) 0.0% Memory size 55.1 KiB	No 3088 Yes 2429 No internet service 1526	
DeviceProtection Categorical HIGH CORRELATION HIGH CORRELATION	Distinct 3 Distinct (%) < 0.1% Missing 0 Missing (%) 0.0% Memory size 55.1 KiB	No 3095 Yes 2044 No internet service 1526	
TechSupport Categorical HIGH CORRELATION HIGH CORRELATION	Distinct 3 Distinct (%) < 0.1% Missing 0 Missing (%) 0.0% Memory size 55.1 KiB	No 3473 Yes 2044 No internet service 1526	
StreamingTV Categorical HIGH CORRELATION HIGH CORRELATION	Distinct 3 Distinct (%) < 0.1% Missing 0 Missing (%) 0.0% Memory size 55.1 KiB	No 2810 Yes 2707 No internet service 1526	
StreamingMovies Categorical HIGH CORRELATION HIGH CORRELATION	Distinct 3 Distinct (%) < 0.1% Missing 0 Missing (%) 0.0% Memory size 55.1 KiB	No 2795 Yes 2732 No internet service 1526	
Contract Categorical HIGH CORRELATION	Distinct 3 Distinct (%) < 0.1% Missing 0 Missing (%) 0.0% Memory size 55.1 KiB	Month-to-month 3675 Two year 1695 One year 1475	
PaperlessBilling Boolean	Distinct 2 Distinct (%) < 0.1% Missing 0 Missing (%) 0.0% Memory size 7.0 KiB	True 4171 False 2872	
PaymentMethod Categorical	Distinct 4 Distinct (%) 0.1% Missing 0 Missing (%) 0.0% Memory size 55.1 KiB	Electronic check 3365 Mailed check 1612 Bank transfer (automatic) 1544 Credit card (automatic) 1522	
MonthlyCharges Real number (R _{nd}) HIGH CORRELATION	Distinct 1585 Distinct (%) 22.5% Missing 0 Missing (%) 0.0% Infinite 0 Infinite (%) 0.0% Mean 64.76169246	Minimum 18.25 Maximum 118.75 Zeros 0 Zeros (%) 0.0% Negative 0 Negative (%) 0.0% Memory size 55.1 KiB	
TotalCharges Categorical HIGH CARDINALITY UNIFORM	Distinct 6531 Distinct (%) 92.7% Missing 0 Missing (%) 0.0% Memory size 55.1 KiB	11 20.2 11 19.75 9 20.05 8 19.9 8 19.9 Other values (6526) 6990	
Churn Boolean	Distinct 2 Distinct (%) < 0.1% Missing 0 Missing (%) 0.0% Memory size 7.0 KiB	False 5174 True 1869	

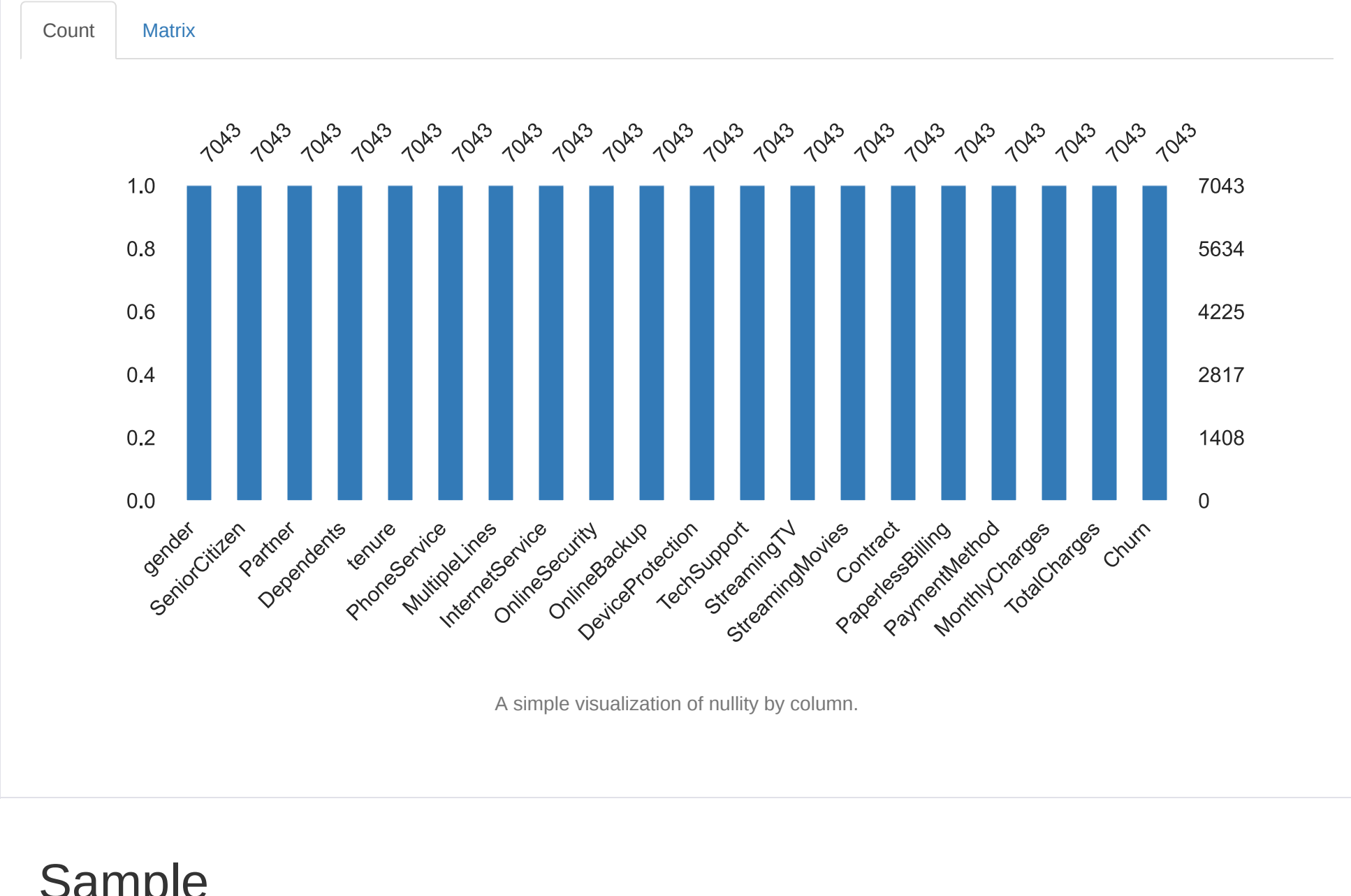
Interactions



Correlations



Missing values



Sample

First rows										
	gender	SeniorCitizen	Partner	Dependents	tenure	PhoneService	MultipleLines	InternetService	OnlineSecurity	On
0	Female	0	Yes	No	1	No	No phone service	DSL	No	Yes
1	Male	0	No	No	34	Yes	No	DSL	Yes	No
2	Male	0	No	No	2	Yes	No	DSL	Yes	Yes
3	Male	0	No	No	45	No	No phone service	DSL	Yes	No
4	Female	0	No	No	2	Yes	No	Fiber optic	No	No
5	Female	0	No	No	8	Yes	Yes	Fiber optic	No	No
6	Male	0	No	Yes	22	Yes	Yes	Fiber optic	No	Yes
7	Female	0	No	No	10	No	No phone service	DSL	Yes	No
8	Female	0	Yes	No	28	Yes	Yes	Fiber optic	No	No
9	Male	0	No	Yes	62	Yes	No	DSL	Yes	Yes

Last rows										
	gender	SeniorCitizen	Partner	Dependents	tenure	PhoneService	MultipleLines	InternetService	OnlineSecurity	On
7033	Male	0	No	No	38	Yes	No	Fiber optic	No	N
7034	Female	0	No	No	67	Yes	Yes	Fiber optic	Yes	N
7035	Male	0	No	No	19	Yes	No	Fiber optic	No	N
7036	Female	0	No	No	12	No	No phone service	DSL	No	N
7037	Female	0	No	No	72	Yes	No	No	No internet service	N
7038	Male	0	Yes	Yes	24	Yes	Yes	DSL	Yes	N
7039	Female	0	Yes	Yes	72	Yes	Yes	Fiber optic	No	N
7040	Female	0	Yes	Yes	11	No	No phone service	DSL	Yes	N
7041	Male	1	Yes	No	4	Yes	Yes	Fiber optic	No	N
7042	Male	0	No	No	66	Yes	No	Fiber optic	Yes	N

Duplicate rows

Most frequently occurring										
	gender	SeniorCitizen	Partner	Dependents	tenure	PhoneService	MultipleLines	InternetService	OnlineSecurity	On
12	Male	0	No	No	1	Yes	No	No	No internet service	N
14	Male	0	No	No	1	Yes	No	No	No internet service	N
0	Female	0	No	No	1	Yes	No	Fiber optic	No	N
1	Female	0	No	No	1	Yes	No	Fiber optic	No	N
2	Female	0	No	No	1	Yes	No	Fiber optic	No	N
3	Female	0	No	No	1	Yes	No	No	No internet service	N
4	Female	0	No	No	1	Yes	No	No	No internet service	N
5	Female	0	No	No	1	Yes	No	No	No internet service	N
6	Female	0	No	No	1	Yes	No	No	No internet service	N
7	Female	1	No	No	1	Yes	No	Fiber optic	No	N