

# Overview

## Dataset info

<b>Number of variables</b>	21
<b>Number of observations</b>	7043
<b>Total Missing (%)</b>	0.0%
<b>Total size in memory</b>	1.1 MiB
<b>Average record size in memory</b>	168.0 B

## Variables types

<b>Numeric</b>	2
<b>Categorical</b>	17
<b>Boolean</b>	1
<b>Date</b>	0
<b>Text (Unique)</b>	1
<b>Rejected</b>	0
<b>Unsupported</b>	0

## Warnings

TotalCharges has a high cardinality: 6531 distinct values Warning

# Variables

## Churn

Categorical

**Distinct count** 2  
**Unique (%)** 0.0%  
**Missing (%)** 0.0%  
**Missing (n)** 0

No	5174
Yes	1869

[Toggle details](#)

## Contract

Categorical

**Distinct count** 3  
**Unique (%)** 0.0%  
**Missing (%)** 0.0%  
**Missing (n)** 0

Month-to-month	3875
Two year	1695
One year	1473

[Toggle details](#)

## Dependents

Categorical

**Distinct count** 2  
**Unique (%)** 0.0%  
**Missing (%)** 0.0%

Missing (n) 0

No 4933  
Yes 2110

[Toggle details](#)

## DeviceProtection

Categorical

**Distinct count** 3  
**Unique (%)** 0.0%  
**Missing (%)** 0.0%  
**Missing (n)** 0

No 3095  
Yes 2422  
No internet service 1526

[Toggle details](#)

## InternetService

Categorical

**Distinct count** 3  
**Unique (%)** 0.0%  
**Missing (%)** 0.0%  
**Missing (n)** 0

Fiber optic 3096  
DSL 2421  
No 1526

[Toggle details](#)

## MonthlyCharges

Numeric

<b>Distinct count</b>	1585	<b>Mean</b>	64.762
<b>Unique (%)</b>	22.5%	<b>Minimum</b>	18.25
<b>Missing (%)</b>	0.0%	<b>Maximum</b>	118.75
<b>Missing (n)</b>	0	<b>Zeros (%)</b>	0.0%
<b>Infinite (%)</b>	0.0%		
<b>Infinite (n)</b>	0		

[Toggle details](#)

## MultipleLines

Categorical

<b>Distinct count</b>	3
<b>Unique (%)</b>	0.0%
<b>Missing (%)</b>	0.0%
<b>Missing (n)</b>	0

No	3390
Yes	2971
No phone service	682

[Toggle details](#)

## OnlineBackup

Categorical

**Distinct count** 3  
**Unique (%)** 0.0%  
**Missing (%)** 0.0%  
**Missing (n)** 0

No	3088
Yes	2429
No internet service	1526

[Toggle details](#)

## OnlineSecurity

Categorical

**Distinct count** 3  
**Unique (%)** 0.0%  
**Missing (%)** 0.0%  
**Missing (n)** 0

No	3498
Yes	2019
No internet service	1526

[Toggle details](#)

## PaperlessBilling

Categorical

**Distinct count** 2  
**Unique (%)** 0.0%

Missing (%) 0.0%

Missing (n) 0

Yes	4171
No	2872

[Toggle details](#)

## Partner

Categorical

Distinct count 2

Unique (%) 0.0%

Missing (%) 0.0%

Missing (n) 0

No	3641
Yes	3402

[Toggle details](#)

## PaymentMethod

Categorical

Distinct count 4

Unique (%) 0.1%

Missing (%) 0.0%

Missing (n) 0

Electronic check	2365
Mailed check	1612
Bank transfer (automatic)	1544

[Toggle details](#)

### PhoneService

Categorical

**Distinct count** 2  
**Unique (%)** 0.0%  
**Missing (%)** 0.0%  
**Missing (n)** 0

Yes	6361
No	682

[Toggle details](#)

### SeniorCitizen

Boolean

**Distinct count** 2  
**Unique (%)** 0.0%  
**Missing (%)** 0.0%  
**Missing (n)** 0

**Mean** 0.16215

0	5901
1	1142

[Toggle details](#)

### StreamingMovies

Categorical

**Distinct count** 3

**Unique (%)** 0.0%  
**Missing (%)** 0.0%  
**Missing (n)** 0

No	2785
Yes	2732
No internet service	1526

[Toggle details](#)

## StreamingTV

Categorical

**Distinct count** 3  
**Unique (%)** 0.0%  
**Missing (%)** 0.0%  
**Missing (n)** 0

No	2810
Yes	2707
No internet service	1526

[Toggle details](#)

## TechSupport

Categorical

**Distinct count** 3  
**Unique (%)** 0.0%  
**Missing (%)** 0.0%  
**Missing (n)** 0

No	3473
Yes	2044



No internet service 1526

[Toggle details](#)

## TotalCharges

Categorical

**Distinct count** 6531

**Unique (%)** 92.7%

**Missing (%)** 0.0%

**Missing (n)** 0

11

20.2 11

19.75 9

Other values (6528) 7012

[Toggle details](#)

## customerID

Categorical, Unique

**First 3 values**

**Last 3 values**

[Toggle details](#)

## gender

Categorical

**Distinct count** 2

**Unique (%)** 0.0%

Missing (%) 0.0%

Missing (n) 0

Male	3555
Female	3488

[Toggle details](#)

tenure

Numeric

Distinct count 73

Unique (%) 1.0%

Missing (%) 0.0%

Missing (n) 0

Infinite (%) 0.0%

Infinite (n) 0

Mean 32.371

Minimum 0

Maximum 72

Zeros (%) 0.2%

[Toggle details](#)

## Correlations

## Sample

	customerID	gender	SeniorCitizen	Partner	Dependents	tenure	PhoneService	MultipleL
0	7590-VHVEG	Female	0	Yes	No	1	No	No phone
1	5575-GNVDE	Male	0	No	No	34	Yes	No
2	3668-QPYBK	Male	0	No	No	2	Yes	No
3	7795-CFOCW	Male	0	No	No	45	No	No phone
4	9237-HQITU	Female	0	No	No	2	Yes	No

