Overview

Brought to you by YData (https://ydata.ai/?utm_source=opensource&utm_medium=ydataprofiling&utm_campaign=report)

Dataset statistics	
Number of variables	7
Number of observations	891
Missing cells	0
Missing cells (%)	0.0%
Duplicate rows	57
Duplicate rows (%)	6.4%
Total size in memory	48.9 KiB
Average record size in memory	56.1 B

Variable types

Categorical	4
Numeric	3

Alerts

Dataset has 57 (6.4%) duplicate rows	Duplicates
Fare is highly overall correlated with famnp	High correlation
Sex is highly overall correlated with Survived	High correlation
Survived is highly overall correlated with Sex	High correlation
famnp is highly overall correlated with Fare	High correlation
Fare has 15 (1.7%) zeros	Zeros
famnp has 537 (60.3%) zeros	Zeros

Reproduction

Analysis started	2024-08-16 21:23:13.430392
Analysis finished	2024-08-16 21:23:19.815448
Duration	6.39 seconds
Software version	ydata-profiling vv4.9.0 (https://github.com/ydataai/ydata-profiling)

 $\textbf{configuration} \hspace{0.3cm} 8,\%78\%22 \\ \textbf{title}\%22\%3A\%20\%22 \\ \textbf{Pandas}\%20 \\ \textbf{Profiling}\%20 \\ \textbf{Report}\%22\%2 \\ \textbf{C}\%20\%22 \\ \textbf{dataset}\%22\%3A\%20\%78\%22 \\ \textbf{description}\%22\%3A\%20\%22\%22\%22\%20\%20\%22 \\ \textbf{Report}\%22\%20\%22 \\ \textbf{C}\%20\%22 \\ \textbf{C}\%20\%$

Variables

Select Columns ✔

Survived

Categorical

HIGH CORRELATION (This variable has a high overall correlation with 1 fields: Sex)

Distinct	2
Distinct (%)	0.2%
Missing	0
Missing (%)	0.0%
Memory size	7.1 KiB

Length	
Max length	1
Median length	1
Mean length	1
Min length	1
Min length	1

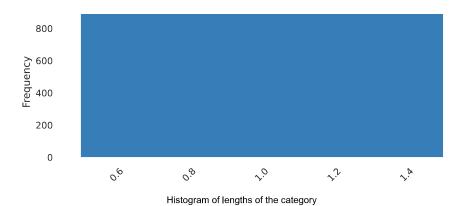
Characters and Unicode		Unique		Sample		
		Unique	0 ?	1st row	0	
Total characters	891	Unique (%)	0.0%	2nd row	1	
Distinct	2			3rd row	1	
characters				4th row	1	
Distinct	1			5th row	0	?
categories	(https://en.wik	ipedia.org/wiki/U	Jnicode_char	acter_property#	General_Ca	tegory)
Distinct	1					?
scripts	(https://en.wik	ipedia.org/wiki/S	Script_(Unicod	de)#List_of_scrip	ots_in_Unico	ode)
Distinct blocks	1 (https://en.w	rikipedia.org/wik	i/Unicode_blo	ock)		?

The Unicode Standard assigns character properties to each code point, which can be used to analyse textual variables.

Common Values

Value	Count	Frequency (%)
0	549	61.6%
1	342	38.4%

Length



Common Values (Plot)





Value	Count	Frequency (%)
0	549	61.6%
1	342	38.4%

Most occurring characters

Value	Count	Frequency (%)
0	549	61.6%
1	342	38.4%

Most occurring categories

Value	Count	Frequency (%)
(unknown)	891	100.0%

Most frequent character per category

(unknown)

Value	Count	Frequency (%)
0	549	61.6%
1	342	38.4%

Most occurring scripts

Value	Count	Frequency (%)
(unknown)	891	100.0%

Most frequent character per script

(unknown)

Value	Count	Frequency (%)
0	549	61.6%
1	342	38.4%

Most occurring blocks

Value	Count	Frequency (%)
(unknown)	891	100.0%

Most frequent character per block

(unknown)

Value	Count	Frequency (%)
0	549	61.6%
1	342	38.4%

Pclass

Categorical

Distinct	3
Distinct (%)	0.3%
Missing	0
Missing (%)	0.0%
Memory size	7.1 KiB

Length	
Max length	1
Median length	1
Mean length	1
Min length	1

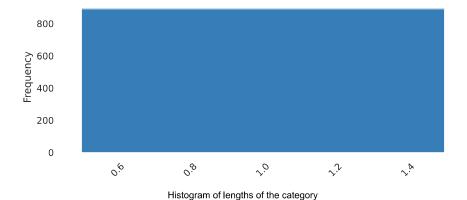
Characters and Unicode		Unique		Sample			
		Unique	0 ?		1st row	3 _	
Total characters	891	Unique (%)	0.0%		2nd row	1	
Distinct	3				3rd row	3	
characters					4th row	1	
Distinct categories	1 (https://en.wik	ipedia.org/wiki/L	Jnicode	chara	5th row	3 Jeneral Ca	? ategory)
Distinct	1	.poulaiorg/ William		011010	.о.ор.оро.су,,	J0110141_00	?
scripts		ipedia.org/wiki/S	Script_(U	nicod	e)#List_of_scrip	ots_in_Unic	=
Distinct blocks	1 (https://en.w	rikipedia.org/wik	i/Unicode	e_bloo	ck)		?

The Unicode Standard assigns character properties to each code point, which can be used to analyse textual variables.

Common Values

Value	Count	Frequency (%)
3	491	55.1%
1	216	24.2%
2	184	20.7%

Length



Common Values (Plot)





Value	Count	Frequency (%)
3	491	55.1%
1	216	24.2%
2	184	20.7%

Most occurring characters

١	'alue	Count	Frequency (%)
3		491	55.1%
1		216	24.2%

Value	Count	Frequency (%)
2	184	20.7%

Most occurring categories

Value	Count	Frequency (%)
(unknown)	891	100.0%

Most frequent character per category

(unknown)

Value	Count	Frequency (%)
3	491	55.1%
1	216	24.2%
2	184	20.7%

Most occurring scripts

Value	Count	Frequency (%)
(unknown)	891	100.0%

Most frequent character per script

(unknown)

Value	Count	Frequency (%)
3	491	55.1%
1	216	24.2%
2	184	20.7%

Most occurring blocks

Value	Count	Frequency (%)
(unknown)	891	100.0%

Most frequent character per block

(unknown)

Value	Count	Frequency (%)
3	491	55.1%
1	216	24.2%
2	184	20.7%

Sex Categorical

HIGH CORRELATION (This variable has a high overall correlation with 1 fields: Survived)

Distinct	2
Distinct (%)	0.2%
Missing	0
Missing (%)	0.0%
Memory size	7.1 KiB

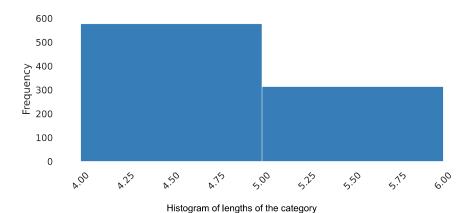
Length		Character Unicode	s and	Unique		Sample		
Max	6	01110000		Unique	0 ?	1st row	male	
length		Total characters	4192	Unique (%)	0.0%	2nd row	female	
Median length	4	Distinct	5			3rd row	female	
Mean	4.704826	characters				4th row	female	
length	1.701020	Distinct	1			5th row	male	?
Min length	4	categories	(https://en.wi	kipedia.org/wiki/L	Jnicode_char	acter_proper	ty#General_	Category)
-		Distinct scripts	1 (https://en.wi	ikipedia.org/wiki/S	Script_(Unicod	de)#List_of_s	cripts_in_Un	? iicode)
		Distinct blocks	1 (https://en.	wikipedia.org/wiki	i/Unicode_blo	ck)		?

The Unicode Standard assigns character properties to each code point, which can be used to analyse textual variables.

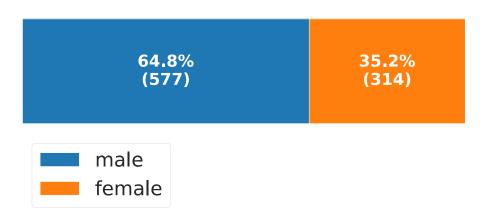
Common Values

Value	Count	Frequency (%)
male	577	64.8%
female	314	35.2%

Length



Common Values (Plot)



Value	Count	Frequency (%)
male	577	64.8%
female	314	35.2%

Most occurring characters

Value	Count	Frequency (%)
е	1205	28.7%
m	891	21.3%
a	891	21.3%
I	891	21.3%

Value	Count	Frequency (%)
f	314	7.5%

Most occurring categories

Value	Count	Frequency (%)
(unknown)	4192	100.0%

Most frequent character per category

(unknown)

Value	Count	Frequency (%)
е	1205	28.7%
m	891	21.3%
a	891	21.3%
I	891	21.3%
f	314	7.5%

Most occurring scripts

Value	Count	Frequency (%)
(unknown)	4192	100.0%

Most frequent character per script

(unknown)

Value	Count	Frequency (%)
е	1205	28.7%
m	891	21.3%
a	891	21.3%
I	891	21.3%

Value	Count	Frequency (%)
f	314	7.5%

Most occurring blocks

Valu	е	Count	Frequency (%)
(unkı	nown)	4192	100.0%

Most frequent character per block

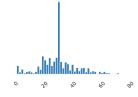
(unknown)

Value	Count	Frequency (%)
е	1205	28.7%
m	891	21.3%
а	891	21.3%
I	891	21.3%
f	314	7.5%

Age Real number (\mathbb{R})

Distinct	89
Distinct (%)	10.0%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	29.699118

Minimum	0.42
Maximum	80
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	7.1 KiB

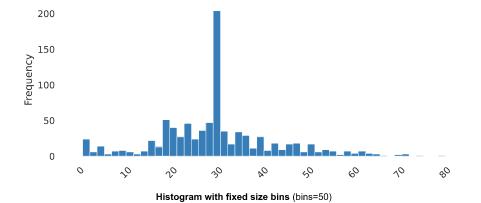


Quantile statistics

Minimum	0.42
5-th percentile	6
Q1	22
median	29.699118
Q3	35
95-th percentile	54
Maximum	80
Range	79.58
Interquartile range (IQR)	13

Descriptive statistics

Standard deviation	13.002015
Coefficient of variation (CV)	0.4377913
Kurtosis	0.9662793
Mean	29.699118
Median Absolute Deviation (MAD)	6.3008824
Skewness	0.43448809
Sum	26461.914
Variance	169.0524
Monotonicity	Not monotonic



Value	Count	Frequency (%)
29.69911765	177	19.9%
24	30	3.4%
22	27	3.0%
18	26	2.9%
28	25	2.8%
30	25	2.8%
19	25	2.8%
21	24	2.7%
25	23	2.6%
36	22	2.5%
Other values (79)	487	54.7%

Value	Count	Frequency (%)
0.42	1	0.1%
0.67	1	0.1%
0.75	2	0.2%
0.83	2	0.2%
0.92	1	0.1%
1	7	0.8%
2	10	1.1%
3	6	0.7%
4	10	1.1%
5	4	0.4%

Value 80

74

71

Count Frequency (%)

0.1%

0.1%

1

1

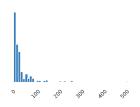
2 0.2%

Value	Count	Frequency (%)
70.5	1	0.1%
70	2	0.2%
66	1	0.1%
65	3	0.3%
64	2	0.2%
63	2	0.2%
62	4	0.4%

Fare Real number (ℝ)

HIGH CORRELATION (This variable has a high overall correlation with 1 fields: famnp) ZEROS

Distinct	248	Minimum	0
Distinct (%)	27.8%	Maximum	512.3292
Missing	0	Zeros	15
Missing (%)	0.0%	Zeros (%)	1.7%
Infinite	0	Negative	0
Infinite (%)	0.0%	Negative (%)	0.0%
Mean	32.204208	Memory size	7.1 KiB

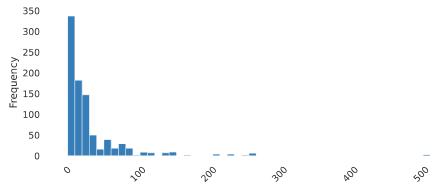


Quantile statistics

Minimum	0
5-th percentile	7.225
Q1	7.9104
median	14.4542
Q3	31
95-th percentile	112.07915
Maximum	512.3292
Range	512.3292
Interquartile range (IQR)	23.0896

Descriptive statistics

Standard deviation	49.693429
Coefficient of variation (CV)	1.5430725
Kurtosis	33.398141
Mean	32.204208
Median Absolute Deviation (MAD)	6.9042
Skewness	4.7873165
Sum	28693.949
Variance	2469.4368
Monotonicity	Not monotonic



Histogram with fixed size bins (bins=50)

Value	Count	Frequency (%)
8.05	43	4.8%
13	42	4.7%
7.8958	38	4.3%
7.75	34	3.8%
26	31	3.5%
10.5	24	2.7%
7.925	18	2.0%
7.775	16	1.8%
7.2292	15	1.7%
0	15	1.7%
Other values (238)	615	69.0%

Value	Count	Frequency (%)
0	15	1.7%
4.0125	1	0.1%
5	1	0.1%
6.2375	1	0.1%
6.4375	1	0.1%
6.45	1	0.1%
6.4958	2	0.2%
6.75	2	0.2%
6.8583	1	0.1%
6.95	1	0.1%

Value	Count	Frequency (%)
512.3292	3	0.3%
263	4	0.4%
262.375	2	0.2%

Value	Count	Frequency (%)
247.5208	2	0.2%
227.525	4	0.4%
221.7792	1	0.1%
211.5	1	0.1%
211.3375	3	0.3%
164.8667	2	0.2%
153.4625	3	0.3%

Embarked

Categorical

Distinct	3
Distinct (%)	0.3%
Missing	0
Missing (%)	0.0%
Memory size	7.1 KiB

Length	
Max length	1
Median length	1
Mean length	1
Min length	1

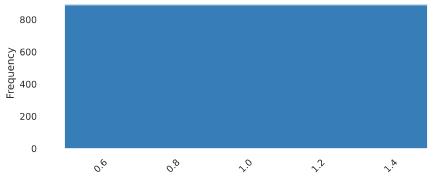
Characters and Unicode		Unique		Sample			
		Unique	0	?	1st row	S	
Total characters	891	Unique (%)	0.0	%	2nd row	С	
Distinct	3				3rd row	S	
characters					4th row	s	
Distinct categories	1 (https://en.wik	ipedia.org/wiki/L	Jnicod	e_chara	5th row acter_property#9	S Jeneral_C	? ategory)
Distinct scripts	1 (https://en.wik	ipedia.org/wiki/S	Script_	(Unicod	e)#List_of_scrip	ots_in_Unio	? code)
Distinct blocks	1 (https://en.w	ikipedia.org/wik	i/Unico	ode_blo	ck)		?

The Unicode Standard assigns character properties to each code point, which can be used to analyse textual variables.

Common Values

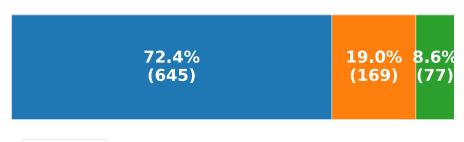
Value	Count	Frequency (%)
S	645	72.4%
С	169	19.0%
Q	77	8.6%

Length



Histogram of lengths of the category

Common Values (Plot)





Value	Count	Frequency (%)
s	645	72.4%
С	169	19.0%
q	77	8.6%

Most occurring characters

Value	Count	Frequency (%)
S	645	72.4%
С	169	19.0%

Value	Count	Frequency (%)	
Q	77	8.6%	

Most occurring categories

Value	Count	Frequency (%)
(unknown)	891	100.0%

Most frequent character per category

(unknown)

Value	Count	Frequency (%)	
S	645	72.4%	
С	169	19.0%	
Q	77	8.6%	

Most occurring scripts

Value	Count	Frequency (%)
(unknown)	891	100.0%

Most frequent character per script

(unknown)

Value	Count	Frequency (%)
S	645	72.4%
С	169	19.0%
Q	77	8.6%

Most occurring blocks

Value	Count	Frequency (%)
(unknown)	891	100.0%

Most frequent character per block

(unknown)

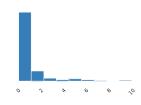
Value	Count	Frequency (%)
S	645	72.4%
С	169	19.0%
Q	77	8.6%

famnp

Real number (\mathbb{R})

HIGH CORRELATION (This variable has a high overall correlation with 1 fields: Fare) ZEROS

Distinct	9	Minimum	0
Distinct (%)	1.0%	Maximum	10
Missing	0	Zeros	537
Missing (%)	0.0%	Zeros (%)	60.3%
Infinite	0	Negative	0
Infinite (%)	0.0%	Negative (%)	0.0%
Mean	0.90460157	Memory size	7.1 KiB

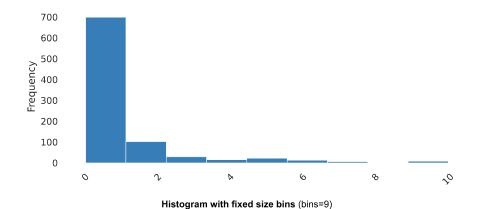


Quantile statistics

Minimum 0 5-th percentile 0 Q1 0 median 0 Q3 1 95-th percentile 5 Maximum 10 Range 10 Interquartile range (IQR) 1

Descriptive statistics

Standard deviation	1.6134585
Coefficient of variation (CV)	1.7836124
Kurtosis	9.159666
Mean	0.90460157
Median Absolute Deviation (MAD)	0
Skewness	2.7274415
Sum	806
Variance	2.6032485
Monotonicity	Not monotonic



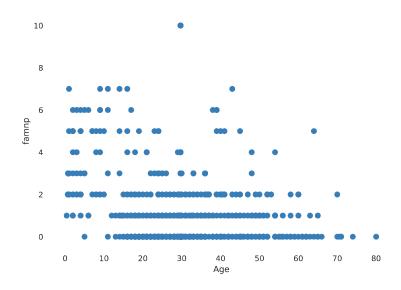
Value	Count	Frequency (%)
0	537	60.3%
1	161	18.1%
2	102	11.4%
3	29	3.3%
5	22	2.5%
4	15	1.7%
6	12	1.3%
10	7	0.8%
7	6	0.7%

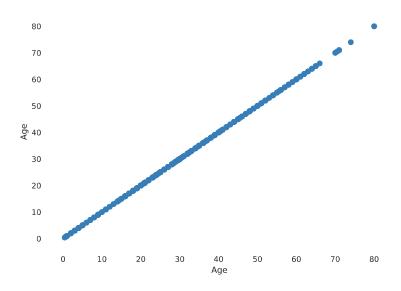
Value	Count	Frequency (%)
0	537	60.3%
1	161	18.1%
2	102	11.4%
3	29	3.3%
4	15	1.7%
5	22	2.5%
6	12	1.3%
7	6	0.7%
10	7	0.8%

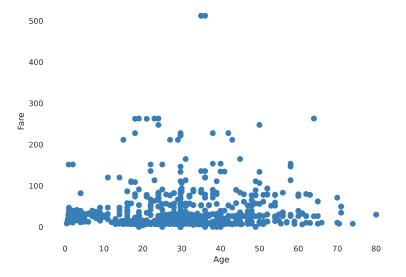
Value	Count	Frequency (%)
10	7	0.8%
7	6	0.7%
6	12	1.3%
5	22	2.5%
4	15	1.7%
3	29	3.3%

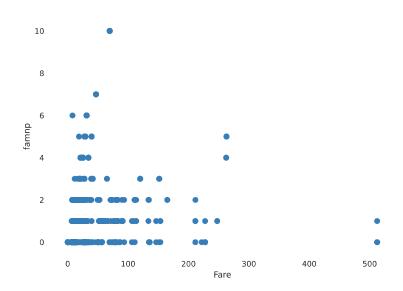
Value	Count	Frequency (%)
2	102	11.4%
1	161	18.1%
0	537	60.3%

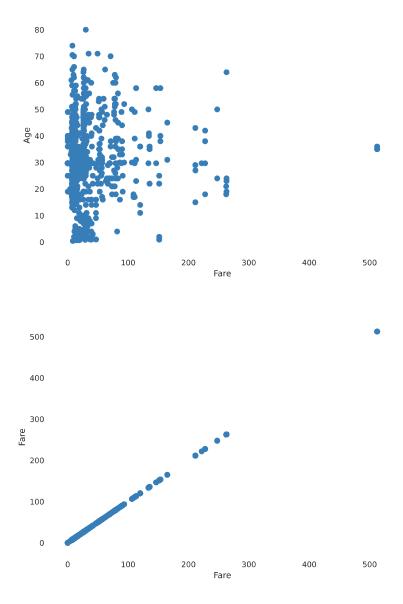
Interactions

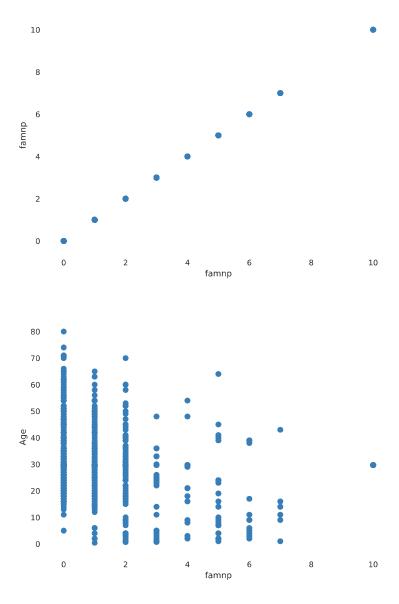


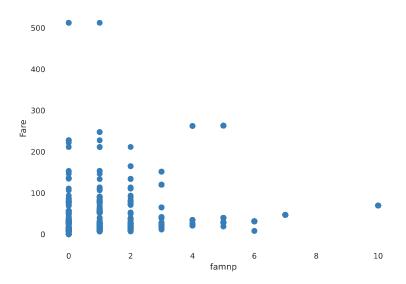




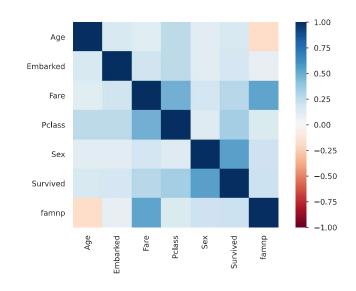






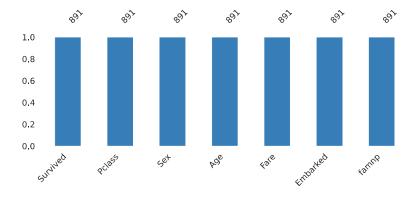


Correlations

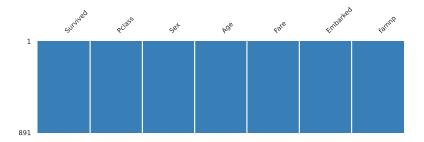


	Age	Embarked	Fare	Pclass	Sex	Survived	famnp
Age	1.000	0.151	0.119	0.265	0.106	0.158	-0.186
Embarked	0.151	1.000	0.197	0.261	0.114	0.168	0.083
Fare	0.119	0.197	1.000	0.479	0.189	0.283	0.529
Pclass	0.265	0.261	0.479	1.000	0.130	0.337	0.137
Sex	0.106	0.114	0.189	0.130	1.000	0.540	0.205
Survived	0.158	0.168	0.283	0.337	0.540	1.000	0.215
famnp	-0.186	0.083	0.529	0.137	0.205	0.215	1.000

Missing values



A simple visualization of nullity by column.



Nullity matrix is a data-dense display which lets you quickly visually pick out patterns in data completion.

Sample

Survived	Pclass	Sex	Age	Fare	Embarked	famnp
0 0	3	male	22.000000	7.2500	S	1
1 1	1	female	38.000000	71.2833	С	1
2 1	3	female	26.000000	7.9250	S	0
3 1	1	female	35.000000	53.1000	S	1
4 0	3	male	35.000000	8.0500	S	0
5 0	3	male	29.699118	8.4583	Q	0

	Survived	Pclass	Sex	Age	Fare	Embarked	famnp
6	0	1	male	54.000000	51.8625	S	0
7	0	3	male	2.000000	21.0750	S	4
8	1	3	female	27.000000	11.1333	S	2
9	1	2	female	14.000000	30.0708	С	1

	Survived	Pclass	Sex	Age	Fare	Embarked	famnp
881	0	3	male	33.000000	7.8958	S	0
882	0	3	female	22.000000	10.5167	S	0
883	0	2	male	28.000000	10.5000	S	0
884	0	3	male	25.000000	7.0500	S	0
885	0	3	female	39.000000	29.1250	Q	5
886	0	2	male	27.000000	13.0000	S	0
887	1	1	female	19.000000	30.0000	S	0
888	0	3	female	29.699118	23.4500	S	3
889	1	1	male	26.000000	30.0000	С	0
890	0	3	male	32.000000	7.7500	Q	0

Duplicate rows

Most frequently occurring

	Survived	Pclass	Sex	Age	Fare	Embarked	famnp	# duplicates
32	0	3	male	29.699118	7.8958	S	0	13
33	0	3	male	29.699118	8.0500	S	0	12
30	0	3	male	29.699118	7.7500	Q	0	9
49	1	3	female	29.699118	7.7500	Q	0	7
7	0	2	male	29.699118	0.0000	S	0	6

	Survived	Pclass	Sex	Age	Fare	Embarked	famnp	# duplicates
27	0	3	male	29.699118	7.2250	С	0	5
28	0	3	male	29.699118	7.2292	С	0	5
37	0	3	male	29.699118	69.5500	S	10	4
4	0	2	male	23.000000	13.0000	S	0	3
5	0	2	male	25.000000	13.0000	S	0	3

Report generated by YData (https://ydata.ai/?utm_source=opensource&utm_medium=pandasprofiling&utm_campaign=report).