

HashPrep Report

v0.1.0a4

2 Critical

17 Warnings

Overview

Dataset Statistics

Variables	12
Observations	891
Missing cells	866 (8.1%)
Duplicate rows	0 (0.0%)
Memory	315.0 KiB
Avg record size	362.1 B

VARIABLE TYPES

Numeric	3
Categorical	6
Text	3

Alerts

MISSING

- 77.1% missing values in 'Cabin'
- Missingness in 'Age' correlates with 6 columns (Pclass, Parch, Embarked)
- Missingness in 'Cabin' correlates with 6 columns (Pclass, Fare, Survived)

HIGH CARDINALITY

- Column 'Name' has 891 unique values (100.0% of rows)
- Column 'Ticket' has 681 unique values (76.4% of rows)
- Column 'Cabin' has 147 unique values (16.5% of rows)

OUTLIERS

- Column 'SibSp' has 12 potential outliers (1.3% of non-missing values)
- Column 'Parch' has 10 potential outliers (1.1% of non-missing values)
- Column 'Fare' has 11 potential outliers (1.2% of non-missing values)

ZEROS

- Column 'Survived' has 61.6% zero values
- Column 'SibSp' has 68.2% zero values
- Column 'Parch' has 76.1% zero values

SKEWNESS

- Column 'SibSp' is highly skewed (skewness: 3.70)

- Column 'Fare' is highly skewed (skewness: 4.79)

UNIFORM

- 'PassengerId' is uniformly distributed and monotonic

UNIQUE

- 'PassengerId' has unique values
- 'Name' has unique values

CONSTANT LENGTH

- 'Embarked' has constant length (1 chars for 100.0% of values)

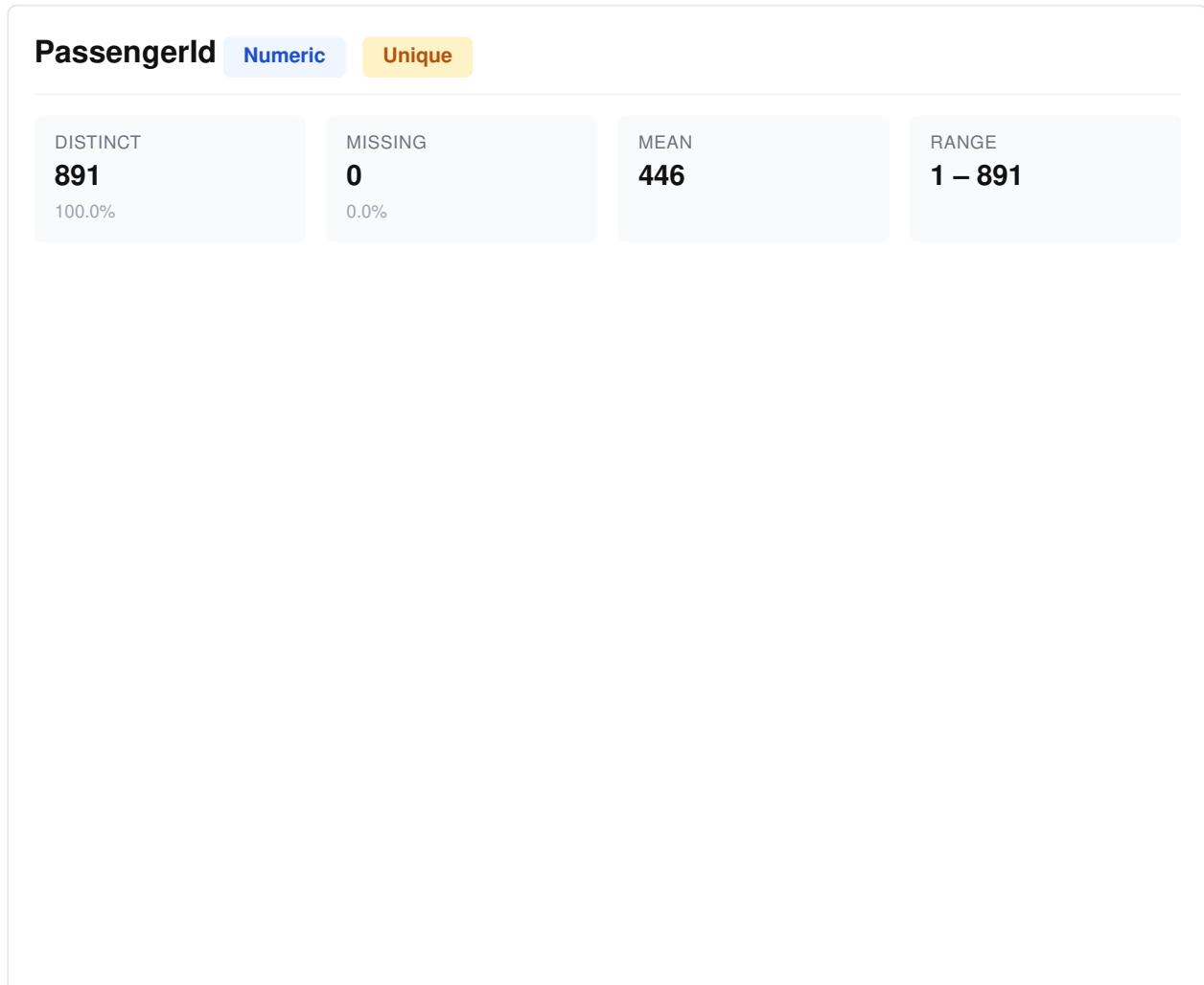
HIGH CORRELATION

- Categorical columns 'Survived' and 'Sex' highly associated (Cramer's V: 0.540)

Reproduction

Analysis started	Analysis finished	Duration	Software version
2026-02-08T11:25:25	2026-02-08T11:25:35	10.71 seconds	hashprep v0.1.0a4

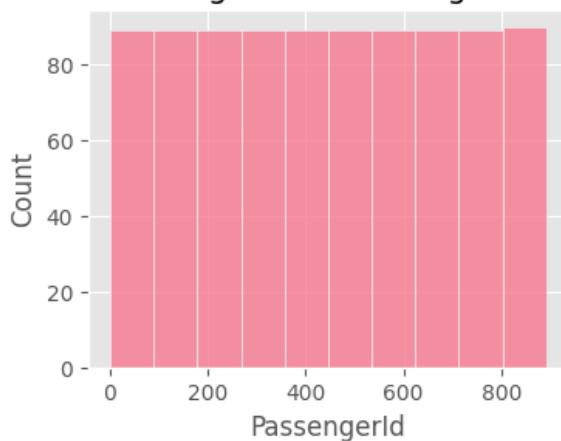
Variables



QUANTILE STATISTICS

Minimum	1
5th percentile	45.5
Q1 (25%)	223.5
Median (50%)	446
Q3 (75%)	668.5
95th percentile	846.5
Maximum	891
Range	890
IQR	445

Histogram of PassengerId



DESCRIPTIVE STATISTICS

Mean	446
Std deviation	257.354
Variance	66231
CV	0.577027
Skewness	0
Kurtosis	-1.2
MAD	223
Sum	397386
Monotonicity	Increasing

COMMON VALUES

VALUE	COUNT	%
891	1	0.1%
1	1	0.1%
2	1	0.1%
3	1	0.1%
4	1	0.1%
5	1	0.1%
6	1	0.1%
7	1	0.1%
8	1	0.1%
9	1	0.1%

EXTREME VALUES

MINIMUM

1 2 3 4 5 6 7 8 9 10

MAXIMUM

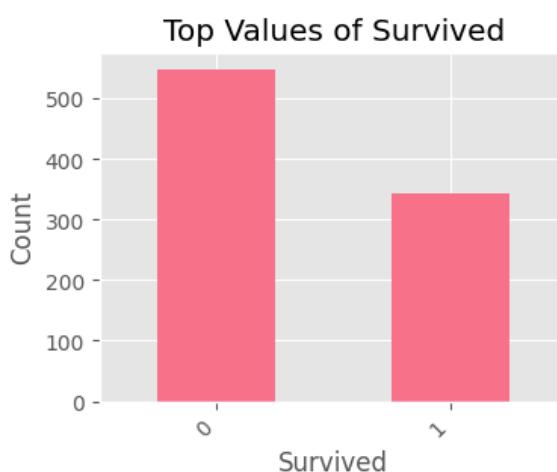
882 883 884 885 886 887 888 889
890 891

VALUE COUNTS

Zeros	0 (0.0%)
Negative	0 (0.0%)
Infinite	0 (0.0%)

Survived Categorical

DISTINCT 2 0.2%	MISSING 0 0.0%	MEMORY 7.1 KiB	LENGTH 1 – 1 chars
LENGTH STATISTICS			
Min length			
	1		
Max length		1	
Mean length		1.00	
Median length		1.00	
CHARACTER STATISTICS			
Total characters		891	
Distinct characters		2	
Distinct categories		1	
COMMON VALUES			
VALUE	COUNT	%	
0	549	61.6%	
1	342	38.4%	



Pclass	Categorical
LENGTH STATISTICS	
DISTINCT 3 0.3%	MISSING 0 0.0%
MEMORY 7.1 KiB	LENGTH 1 – 1 chars
CHARACTER STATISTICS	
Total characters	891
Distinct characters	3
Distinct categories	1
Top Values of Pclass	
Count	
3	500
2	220
1	190

COMMON VALUES

VALUE	COUNT	%
3	491	55.1%
1	216	24.2%
2	184	20.7%

Name Text Unique

DISTINCT

891

100.0%

MISSING

0

0.0%

MEMORY

73.2 KiB

LENGTH

12 – 82

chars

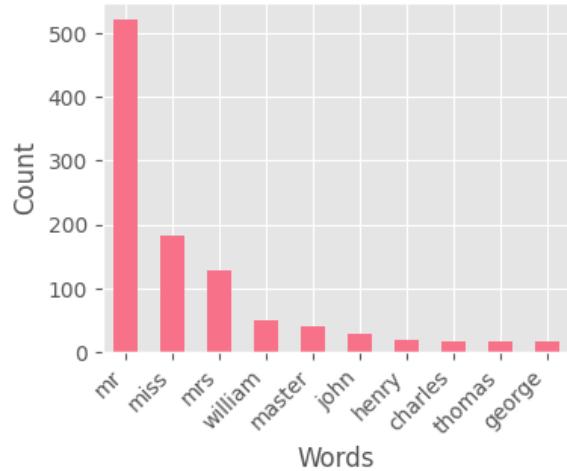
LENGTH STATISTICS

Min length	12
Max length	82
Mean length	26.97
Median length	25.00

CHARACTER STATISTICS

Total characters	24026
Distinct characters	60
Distinct categories	7

Top Words in Name



Sex Categorical

DISTINCT

2

0.2%

MISSING

0

0.0%

MEMORY

53.8 KiB

LENGTH

4 – 6

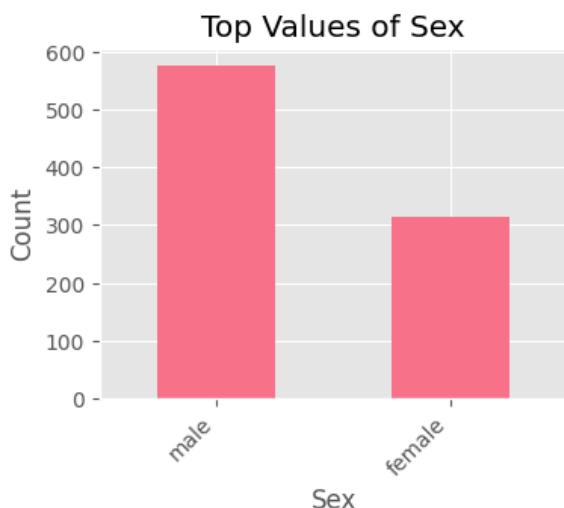
chars

LENGTH STATISTICS

Min length	4
Max length	6
Mean length	4.70
Median length	4.00

CHARACTER STATISTICS

Total characters	4192
Distinct characters	5
Distinct categories	1



COMMON VALUES

VALUE	COUNT	%
male	577	64.8%
female	314	35.2%

Age Numeric 19.9% missing

DISTINCT

88

12.3%

MISSING

177

19.9%

MEAN

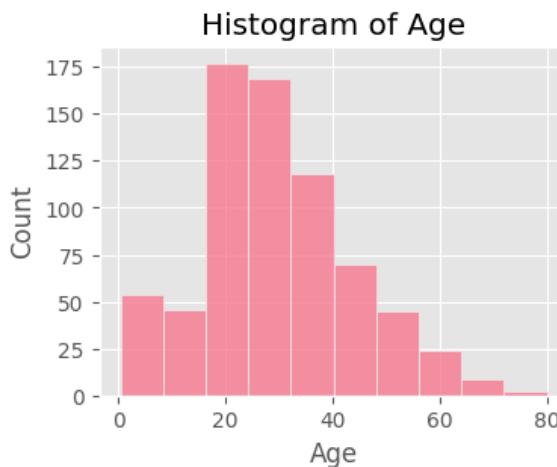
29.7

RANGE

0.42 – 80

QUANTILE STATISTICS

Minimum	0.42
5th percentile	4
Q1 (25%)	20.125
Median (50%)	28
Q3 (75%)	38
95th percentile	56
Maximum	80
Range	79.58
IQR	17.875



DESCRIPTIVE STATISTICS

Mean	29.6991
Std deviation	14.5265
Variance	211.019
CV	0.489122
Skewness	0.389108
Kurtosis	0.178274
MAD	9
Sum	21205.2
Monotonicity	None

COMMON VALUES

VALUE	COUNT	%
24.0	30	4.2%
22.0	27	3.8%
18.0	26	3.6%
28.0	25	3.5%
30.0	25	3.5%
19.0	25	3.5%
21.0	24	3.4%
25.0	23	3.2%
36.0	22	3.1%
29.0	20	2.8%

EXTREME VALUES

MINIMUM

0.42	0.67	0.75	0.75	0.83	0.83	0.92
1	1	1				

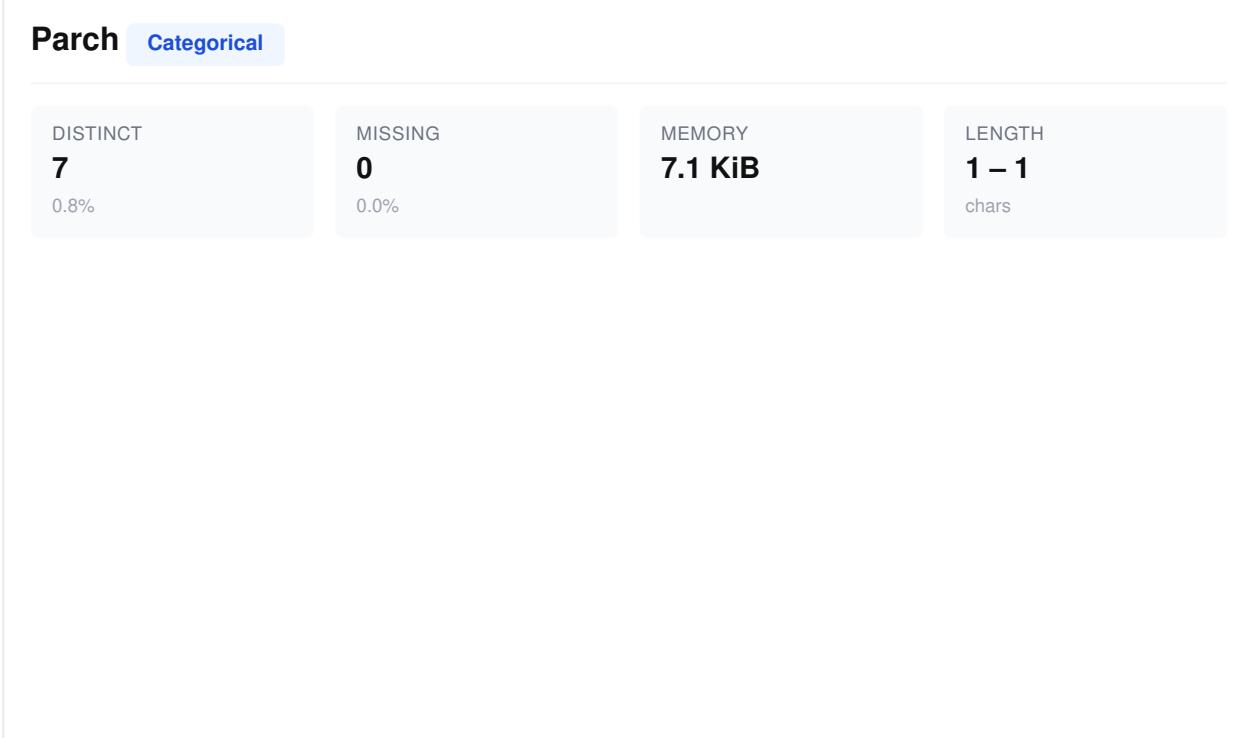
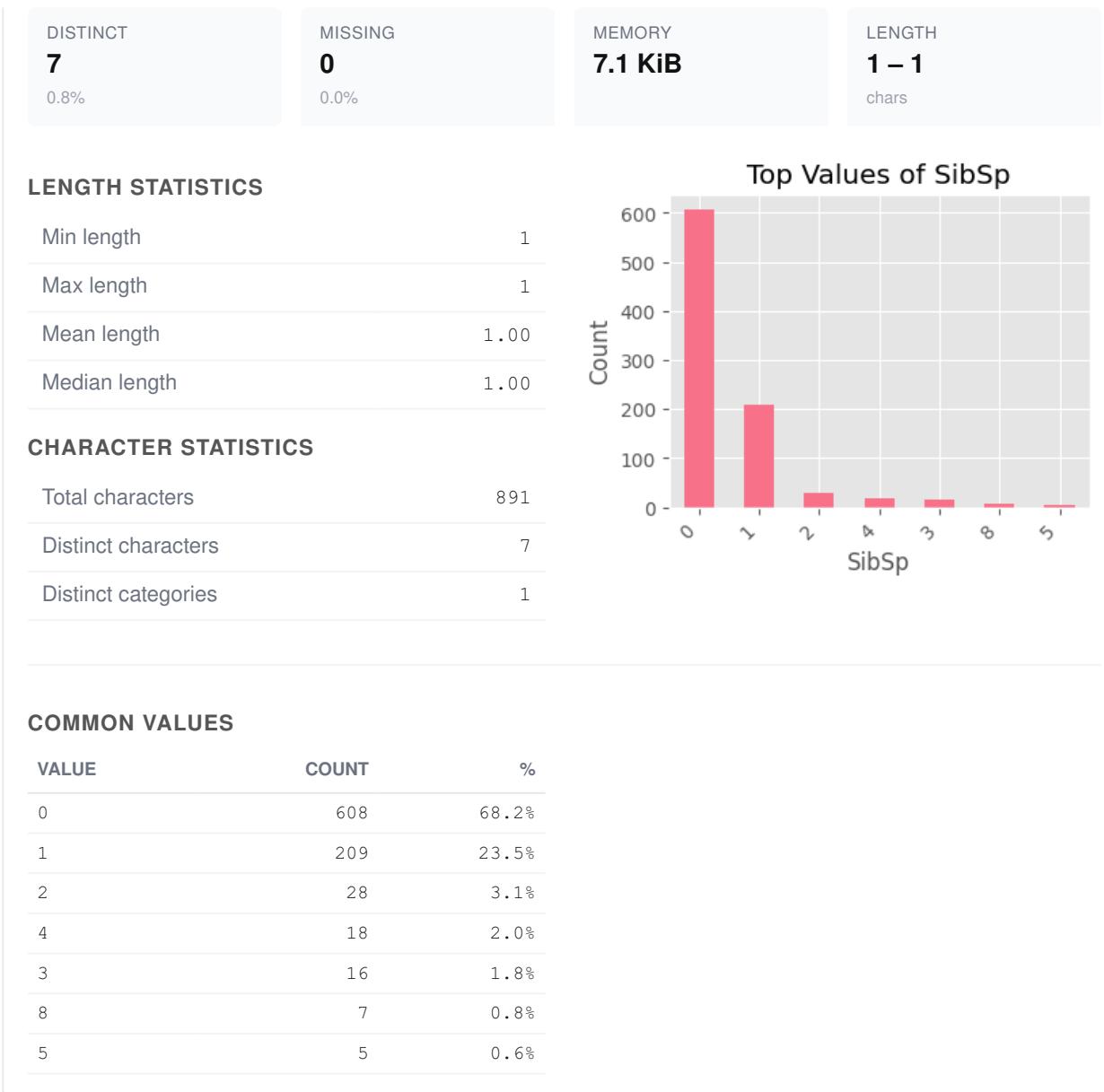
MAXIMUM

65	65	66	70	70	70.5	71	71	74
80								

VALUE COUNTS

Zeros	0 (0.0%)
Negative	0 (0.0%)
Infinite	0 (0.0%)

SibSp Categorical

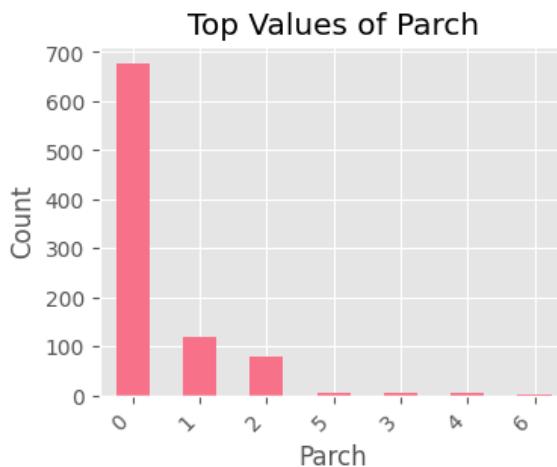


LENGTH STATISTICS

Min length	1
Max length	1
Mean length	1.00
Median length	1.00

CHARACTER STATISTICS

Total characters	891
Distinct characters	7
Distinct categories	1



COMMON VALUES

Value	Count	%
0	678	76.1%
1	118	13.2%
2	80	9.0%
5	5	0.6%
3	5	0.6%
4	4	0.4%
6	1	0.1%

Ticket Text

DISTINCT

681

76.4%

MISSING

0

0.0%

MEMORY

55.6 KiB

LENGTH

3 – 18

chars

LENGTH STATISTICS

Min length	3
Max length	18
Mean length	6.75
Median length	6.00

CHARACTER STATISTICS

Total characters	6015
Distinct characters	35
Distinct categories	5

Top Words in Ticket



Fare Numeric

DISTINCT

248

27.8%

MISSING

0

0.0%

MEAN

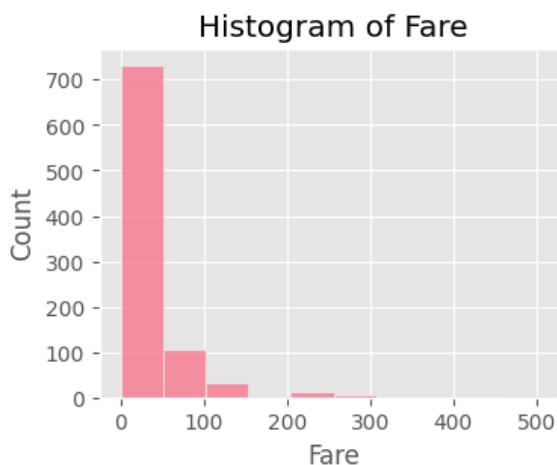
32.2

RANGE

0 – 512.3

QUANTILE STATISTICS

Minimum	0
5th percentile	7.225
Q1 (25%)	7.9104
Median (50%)	14.4542
Q3 (75%)	31
95th percentile	112.079
Maximum	512.329
Range	512.329
IQR	23.0896



DESCRIPTIVE STATISTICS

Mean	32.2042
Std deviation	49.6934
Variance	2469.44
CV	1.54307
Skewness	4.78732
Kurtosis	33.3981
MAD	6.9042
Sum	28693.9
Monotonicity	None

COMMON VALUES

VALUE	COUNT	%
8.05	43	4.8%
13.0	42	4.7%
7.8958	38	4.3%
7.75	34	3.8%
26.0	31	3.5%
10.5	24	2.7%
7.925	18	2.0%
7.775	16	1.8%
7.2292	15	1.7%
26.55	15	1.7%

EXTREME VALUES

MINIMUM

0 0 0 0 0 0 0 0 0 0 0

MAXIMUM

247.5 262.4 262.4 263 263 263 263
512.3 512.3 512.3

VALUE COUNTS

Zeros	15 (1.7%)
Negative	0 (0.0%)
Infinite	0 (0.0%)

Cabin Text 77.1% missing

DISTINCT

147

72.1%

MISSING

687

77.1%

MEMORY

33.7 KiB

LENGTH

1 – 15

chars

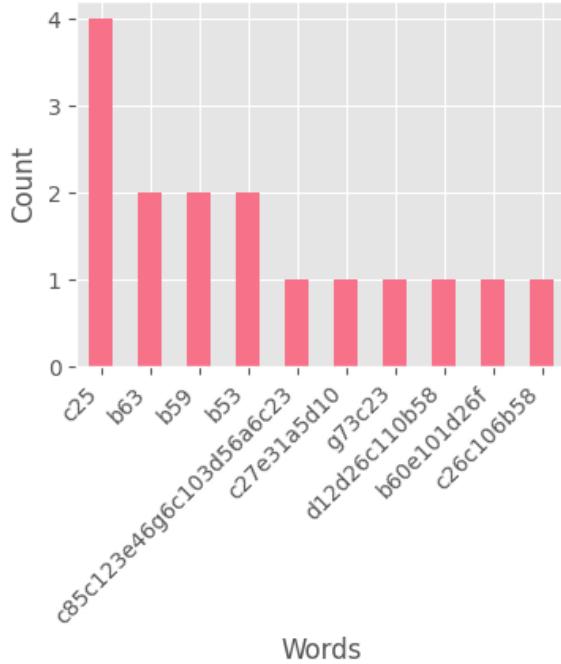
LENGTH STATISTICS

Min length	1
Max length	15
Mean length	3.59
Median length	3.00

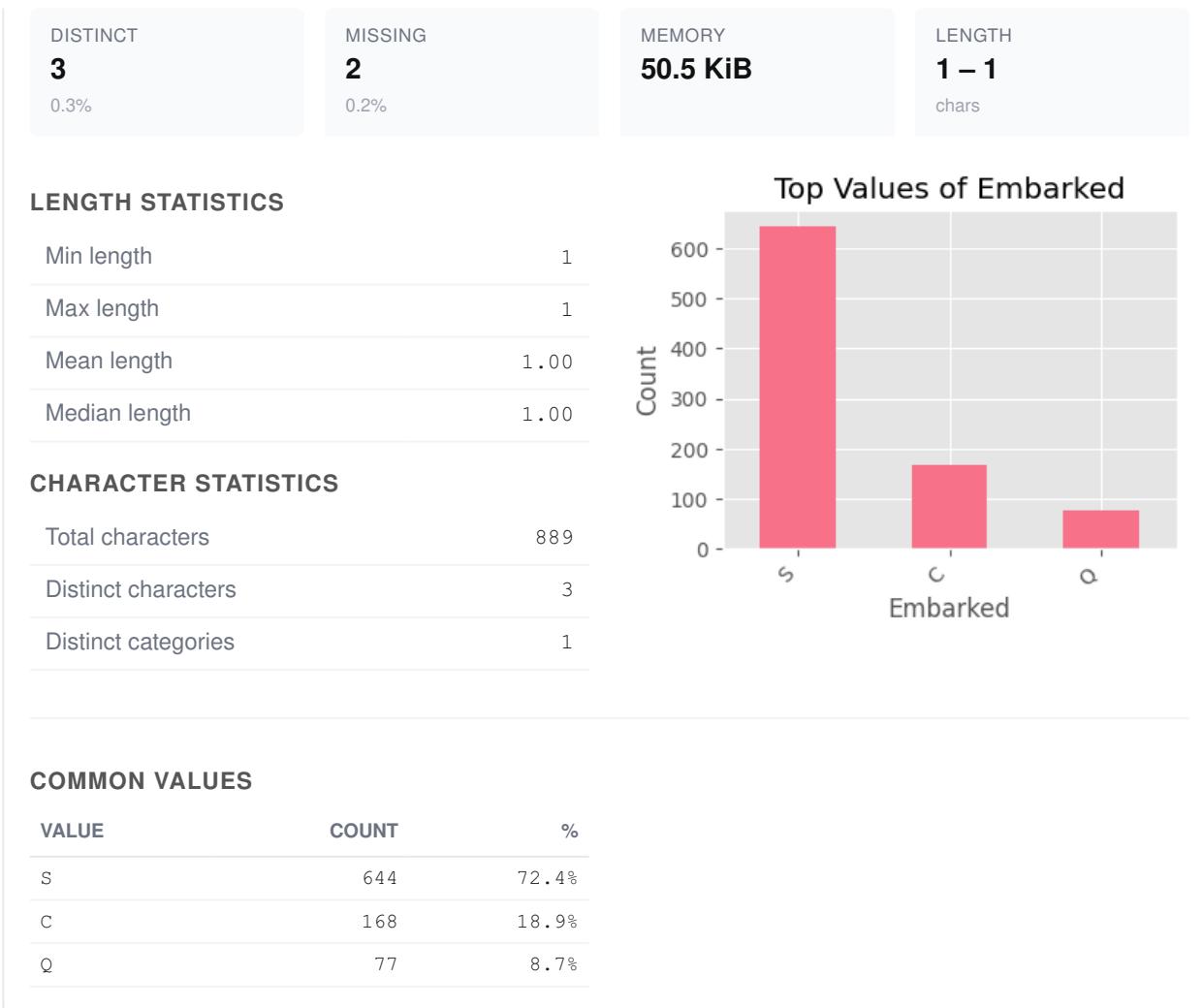
CHARACTER STATISTICS

Total characters	732
Distinct characters	19
Distinct categories	3

Top Words in Cabin

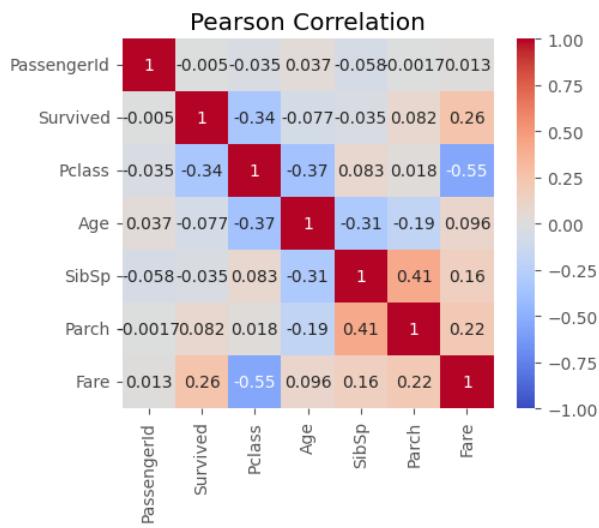


Embarked Categorical 0.2% missing

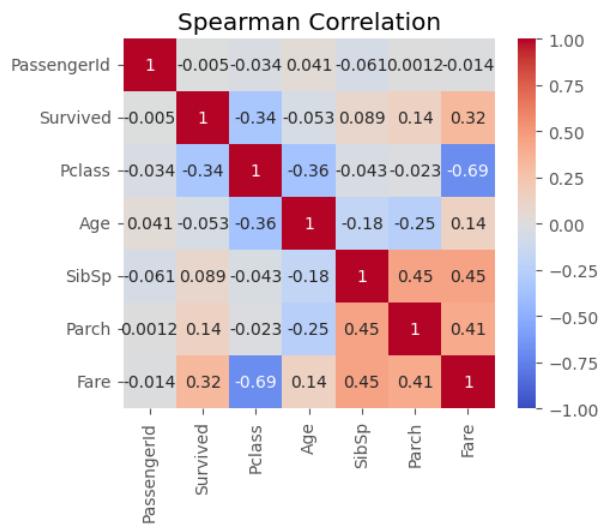


Correlations

PEARSON

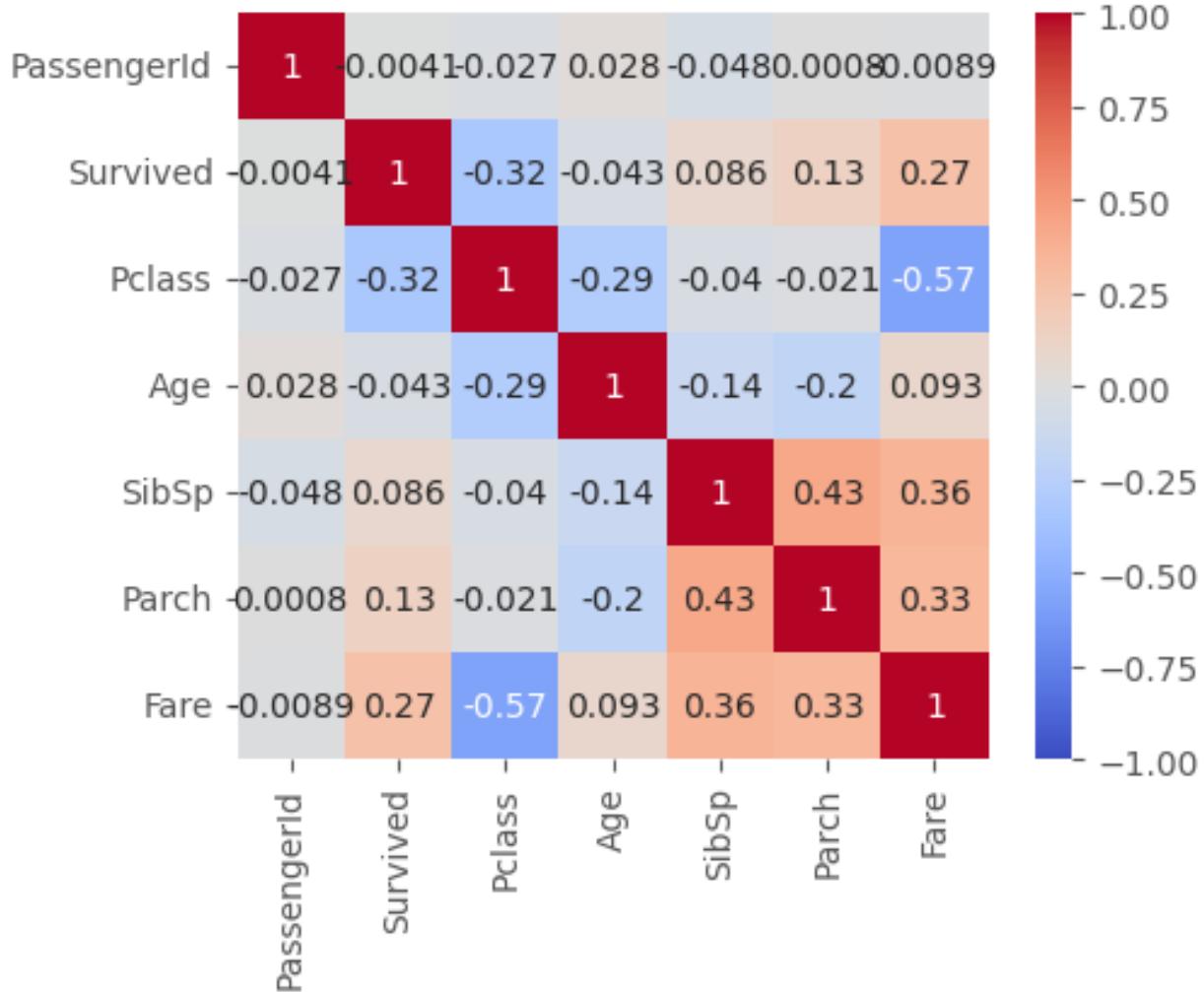


SPEARMAN



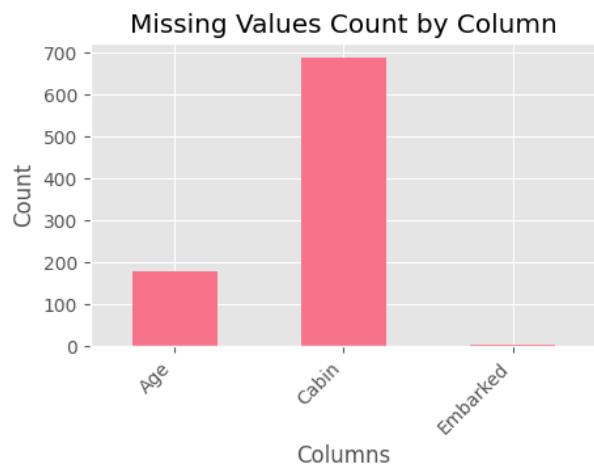
KENDALL

Kendall Correlation

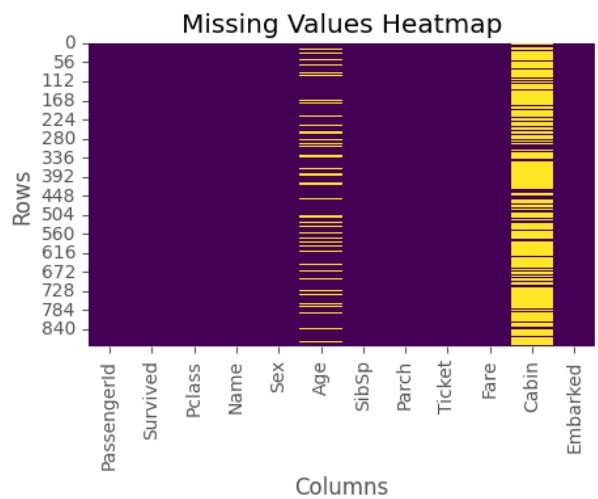


Missing Values

MISSING COUNT PER COLUMN



MISSING PATTERN MATRIX



Sample Data

Head (first 5 rows)

PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	None	S
2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Thayer)	female	38.0	1	0	PC 17599	71.2833	C85	C
3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	None	S
4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000	C123	S
5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500	None	S

Random Sample (10 rows)

PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
710	1	3	Moubarek, Master. Halim Gonios ("William George")	male	NaN	1	1	2661	15.2458	None	C
440	0	2	Kvillner, Mr. Johan Henrik Johannesson	male	31.0	0	0	C.A. 18723	10.5000	None	S
841	0	3	Aihomaki, Mr. Ilmari Rudolf	male	20.0	0	0	SOTON/O2 3101287	7.9250	None	S
721	1	2	Harper, Miss. Annie Jessie "Nina"	female	6.0	0	1	248727	33.0000	None	S
40	1	3	Nicola-Yarred, Miss. Jamila	female	14.0	1	0	2651	11.2417	None	C
291	1	1	Barber, Miss. Ellen "Nellie"	female	26.0	0	0	19877	78.8500	None	S
301	1	3	Kelly, Miss. Anna Katherine "Annie Kate"	female	NaN	0	0	9234	7.7500	None	Q
334	0	3	Vander Planke, Mr. Leo Edmondus	male	16.0	2	0	345764	18.0000	None	S
209	1	3	Carr, Miss. Helen "Ellen"	female	16.0	0	0	367231	7.7500	None	Q
137	1	1	Newsom, Miss. Helen Monypeny	female	19.0	0	2	11752	26.2833	D47	S

Tail (last 5 rows)

PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
887	0	2	Montvila, Rev. Juozas	male	27.0	0	0	211536	13.00	None	S
888	1	1	Graham, Miss. Margaret Edith	female	19.0	0	0	112053	30.00	B42	S
889	0	3	Johnston, Miss. Catherine Helen "Carrie"	female	NaN	1	2	W.C. 6607	23.45	None	S
890	1	1	Behr, Mr. Karl Howell	male	26.0	0	0	111369	30.00	C148	C
891	0	3	Dooley, Mr. Patrick	male	32.0	0	0	370376	7.75	None	Q

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