

TitanicAnaliza

August 1, 2025

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[1]: import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
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[2]: titanik = pd.read_csv("../datasets/titanic.csv")
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[3]: titanik.head()
```

```
[3]:
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	Survived	Pclass	Name \
0	0	3	Mr. Owen Harris Braund
1	1	1	Mrs. John Bradley (Florence Briggs Thayer) Cum...
2	1	3	Miss. Laina Heikkinen
3	1	1	Mrs. Jacques Heath (Lily May Peel) Futrelle
4	0	3	Mr. William Henry Allen

	Sex	Age	Siblings/Spouses Aboard	Parents/Children Aboard	Fare
0	male	22.0	1	0	7.2500
1	female	38.0	1	0	71.2833
2	female	26.0	0	0	7.9250
3	female	35.0	1	0	53.1000
4	male	35.0	0	0	8.0500

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[4]: titanik.describe()
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[4]:
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	Survived	Pclass	Age	Siblings/Spouses Aboard \
count	887.000000	887.000000	887.000000	887.000000
mean	0.385569	2.305524	29.471443	0.525366
std	0.487004	0.836662	14.121908	1.104669
min	0.000000	1.000000	0.420000	0.000000
25%	0.000000	2.000000	20.250000	0.000000
50%	0.000000	3.000000	28.000000	0.000000
75%	1.000000	3.000000	38.000000	1.000000
max	1.000000	3.000000	80.000000	8.000000

	Parents/Children Aboard	Fare
count	887.000000	887.000000
mean	0.383315	32.30542
std	0.807466	49.78204

min	0.000000	0.000000
25%	0.000000	7.92500
50%	0.000000	14.45420
75%	0.000000	31.13750
max	6.000000	512.32920

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[5]: titanik.corr(numeric_only=True)
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[5]:
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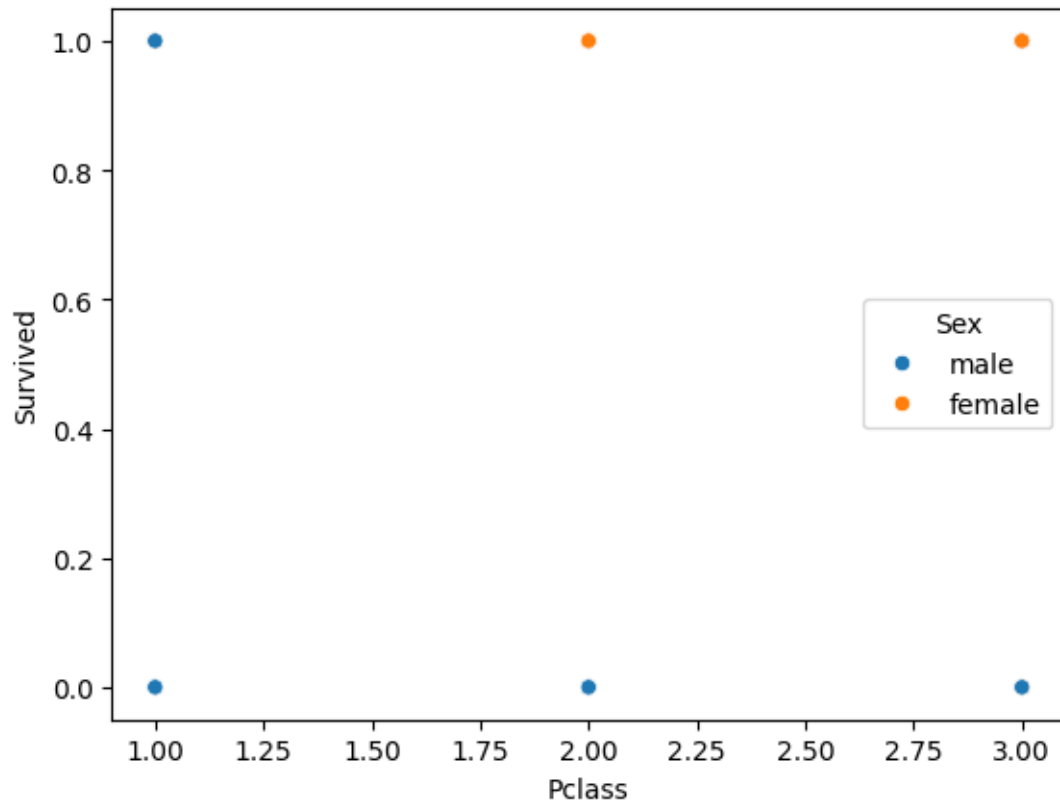
	Survived	Pclass	Age	\
Survived	1.000000	-0.336528	-0.059665	
Pclass	-0.336528	1.000000	-0.391492	
Age	-0.059665	-0.391492	1.000000	
Siblings/Spouses Aboard	-0.037082	0.085026	-0.297669	
Parents/Children Aboard	0.080097	0.020252	-0.193741	
Fare	0.256179	-0.548919	0.112329	

	Siblings/Spouses Aboard	Parents/Children Aboard	\
Survived	-0.037082	0.080097	
Pclass	0.085026	0.020252	
Age	-0.297669	-0.193741	
Siblings/Spouses Aboard	1.000000	0.414244	
Parents/Children Aboard	0.414244	1.000000	
Fare	0.158839	0.215470	

	Fare
Survived	0.256179
Pclass	-0.548919
Age	0.112329
Siblings/Spouses Aboard	0.158839
Parents/Children Aboard	0.215470
Fare	1.000000

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[6]: sns.scatterplot (data = titanik, x = "Pclass", y = "Survived", hue = "Sex")
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[6]: <Axes: xlabel='Pclass', ylabel='Survived'>
```



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[7]: titanik["Survived"].hist(by = titanik["Pclass"], bins = 15)
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[7]: array([[<Axes: title={'center': '1'}>, <Axes: title={'center': '2'}>],  
          [<Axes: title={'center': '3'}>, <Axes: >]], dtype=object)
```

