

Shape of dataset: (891, 12)

Dataset Info:

<class 'pandas.core.frame.DataFrame'>

RangeIndex: 891 entries, 0 to 890

Data columns (total 12 columns):

#	Column	Non-Null Count	Dtype
0	PassengerId	891 non-null	int64
1	Survived	891 non-null	int64
2	Pclass	891 non-null	int64
3	Name	891 non-null	object
4	Sex	891 non-null	object
5	Age	714 non-null	float64
6	SibSp	891 non-null	int64
7	Parch	891 non-null	int64
8	Ticket	891 non-null	object
9	Fare	891 non-null	float64
10	Cabin	204 non-null	object
11	Embarked	889 non-null	object

dtypes: float64(2), int64(5), object(5)

memory usage: 83.7+ KB

None

Summary Statistics:

	PassengerId	Survived	Pclass	Name	Sex	\	
count	891.000000	891.000000	891.000000	891	891		
unique	NaN	NaN	NaN	891	2		
top	NaN	NaN	NaN	Dooley, Mr. Patrick	male		
freq	NaN	NaN	NaN	1	577		
mean	446.000000	0.383838	2.308642	NaN	NaN		
std	257.353842	0.486592	0.836071	NaN	NaN		
min	1.000000	0.000000	1.000000	NaN	NaN		
25%	223.500000	0.000000	2.000000	NaN	NaN		
50%	446.000000	0.000000	3.000000	NaN	NaN		
75%	668.500000	1.000000	3.000000	NaN	NaN		
max	891.000000	1.000000	3.000000	NaN	NaN		

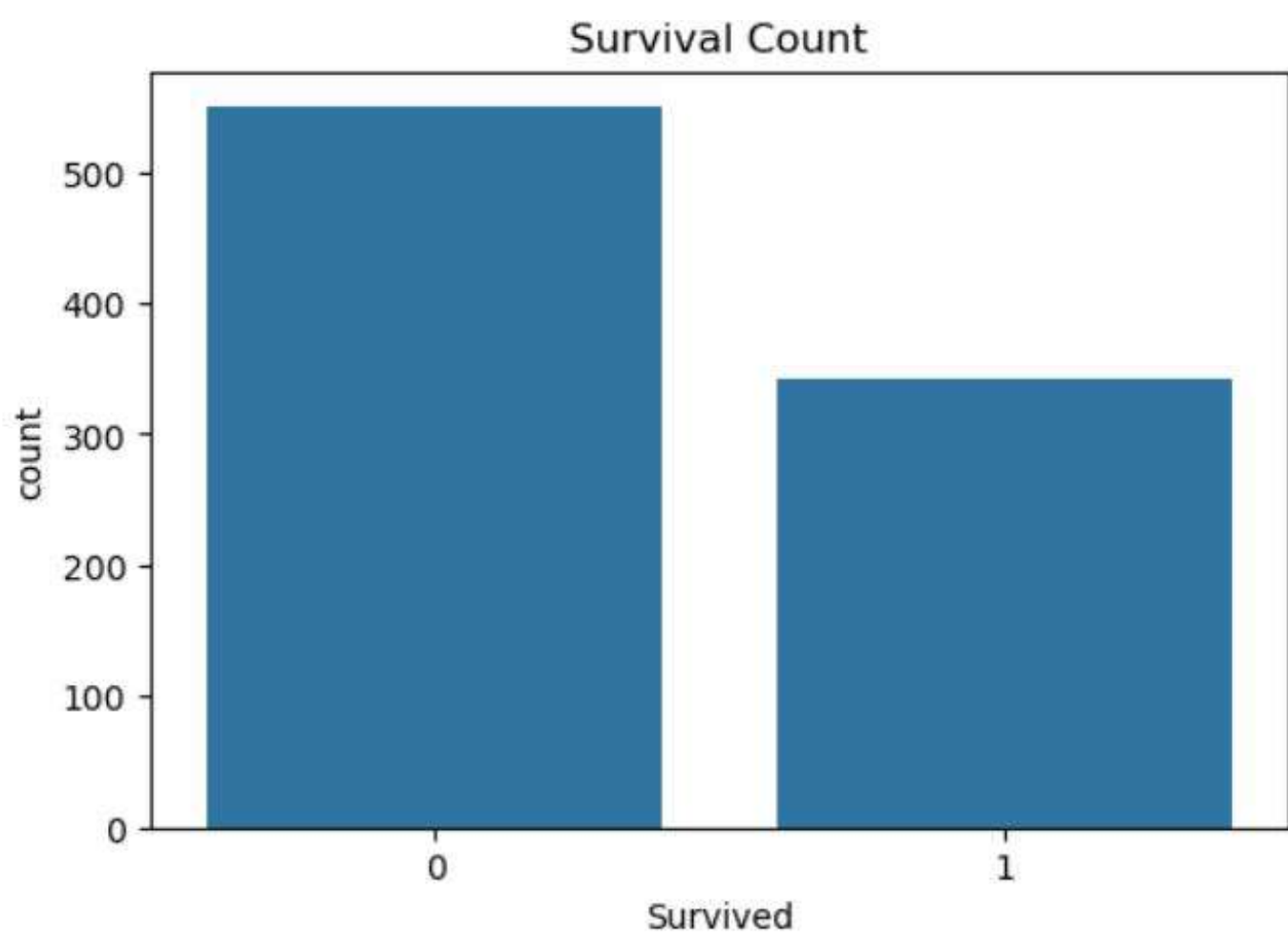
	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
count	714.000000	891.000000	891.000000	891	891.000000	204	889
unique	NaN	NaN	NaN	681	NaN	147	3
top	NaN	NaN	NaN	347082	NaN	G6	S
freq	NaN	NaN	NaN	7	NaN	4	644
mean	29.699118	0.523008	0.381594	NaN	32.204208	NaN	NaN
std	14.526497	1.102743	0.806057	NaN	49.693429	NaN	NaN
min	0.420000	0.000000	0.000000	NaN	0.000000	NaN	NaN
25%	20.125000	0.000000	0.000000	NaN	7.910400	NaN	NaN
50%	28.000000	0.000000	0.000000	NaN	14.454200	NaN	NaN
75%	38.000000	1.000000	0.000000	NaN	31.000000	NaN	NaN
max	80.000000	8.000000	6.000000	NaN	512.329200	NaN	NaN

Missing Values:

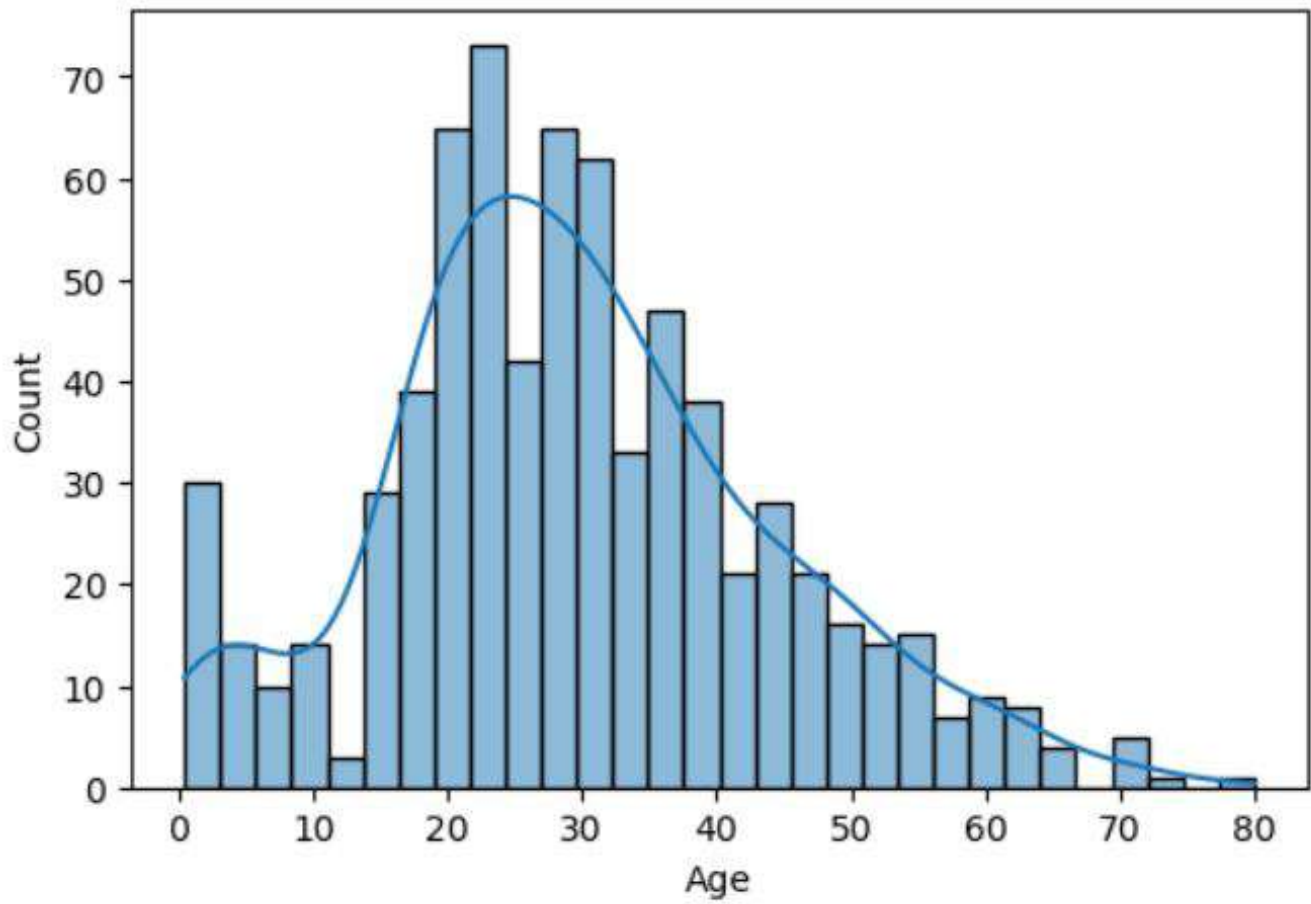
PassengerId	0
Survived	0
Pclass	0
Name	0
Sex	0
Age	177
SibSp	0
Parch	0
Ticket	0
Fare	0
Cabin	687
Embarked	2

dtype: int64

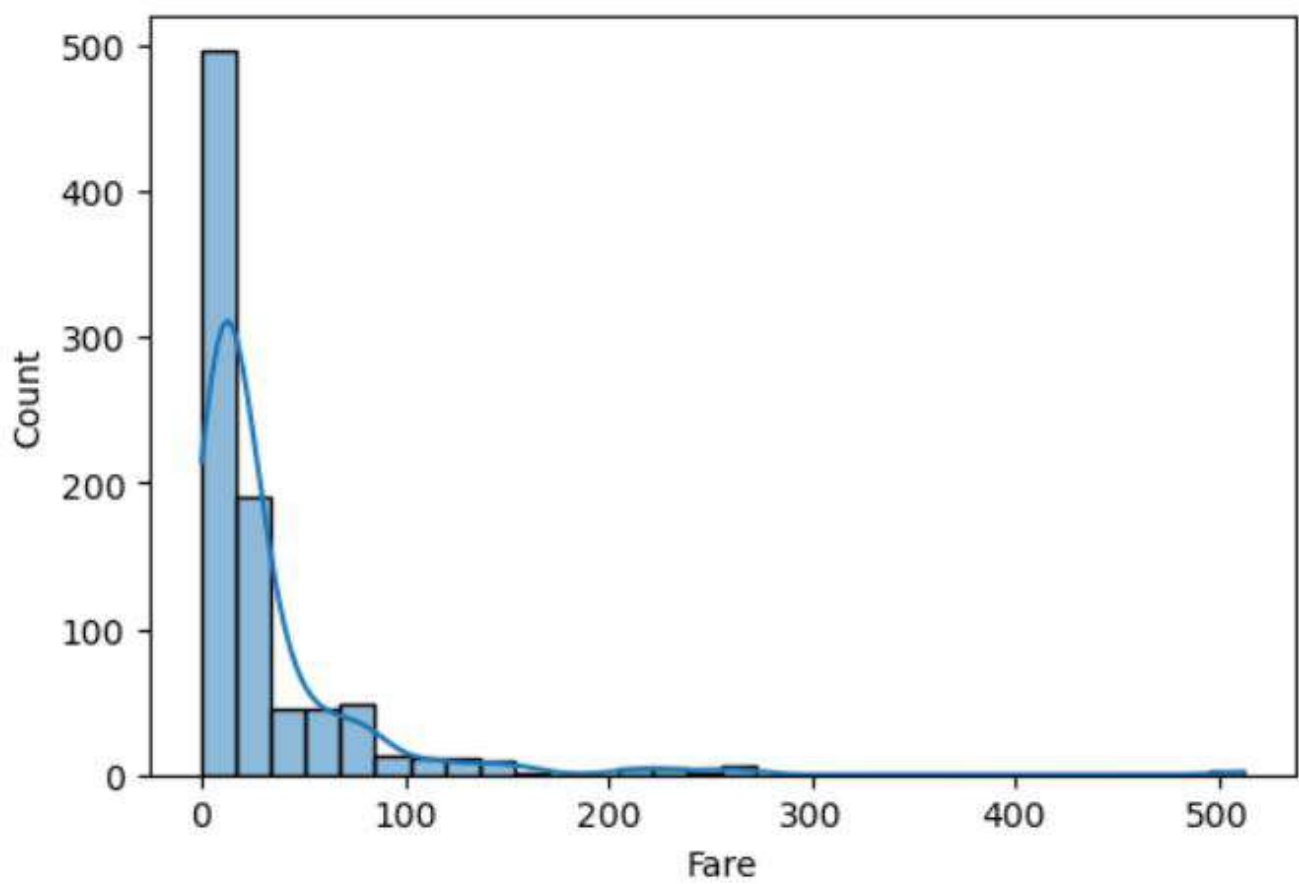
<Figure size 1000x600 with 0 Axes>



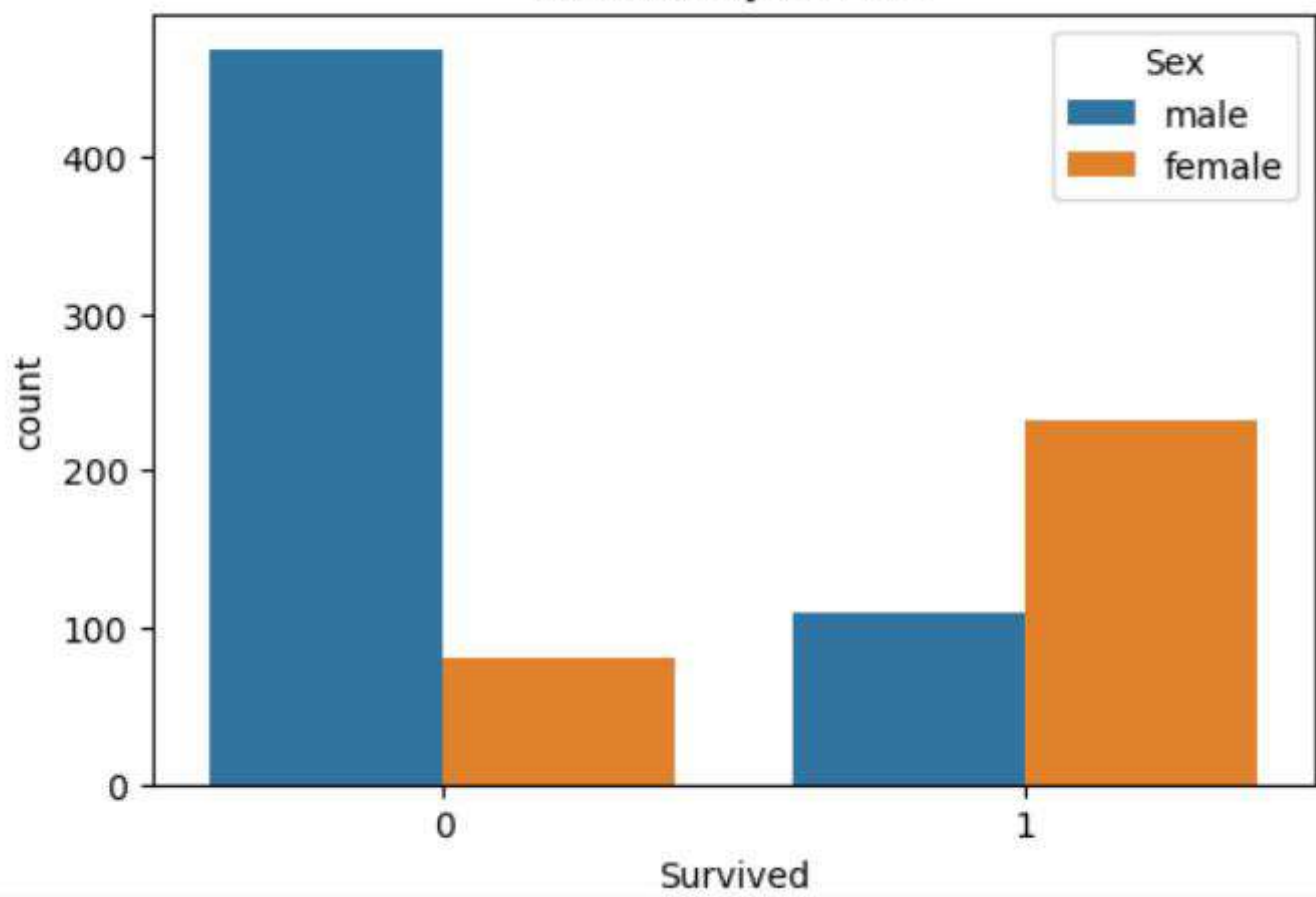
Age Distribution



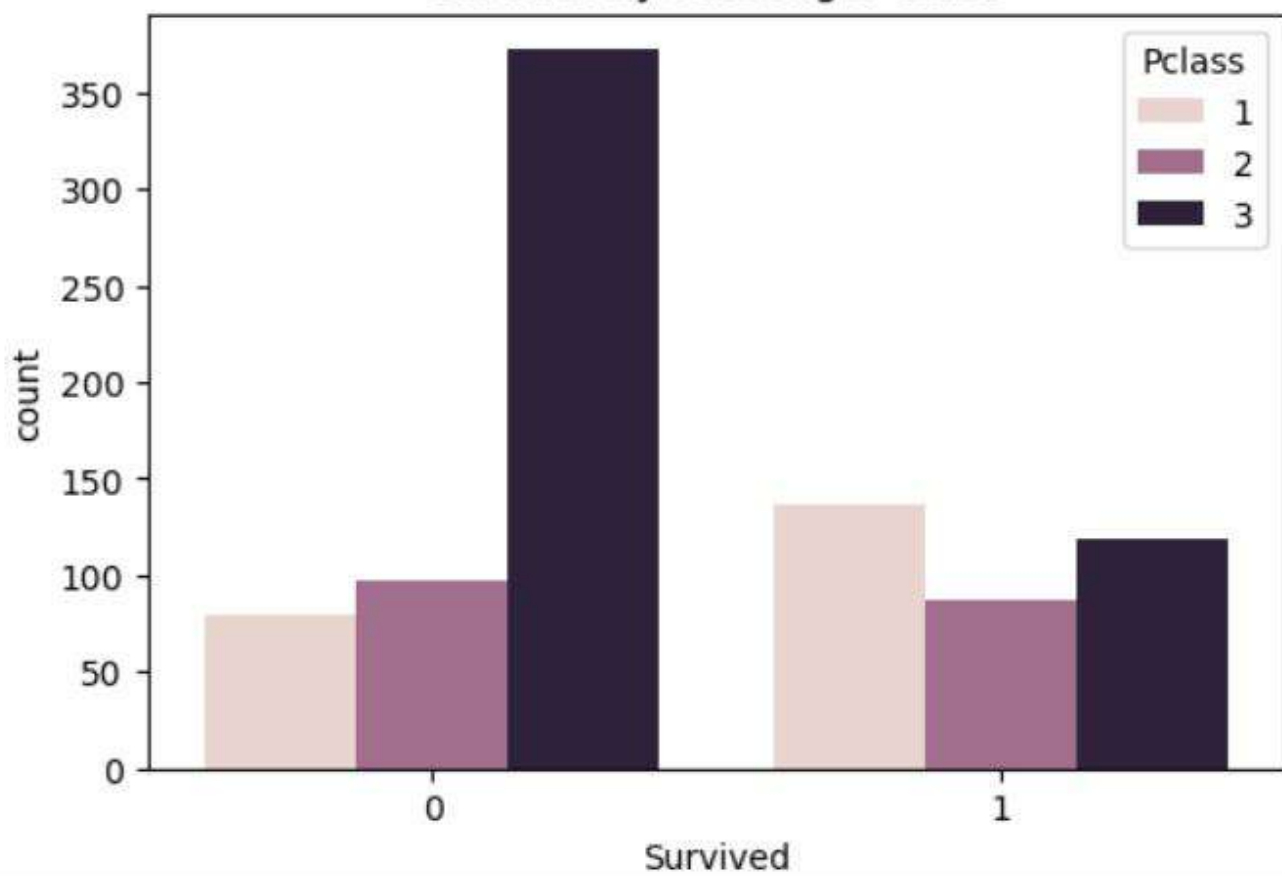
Fare Distribution



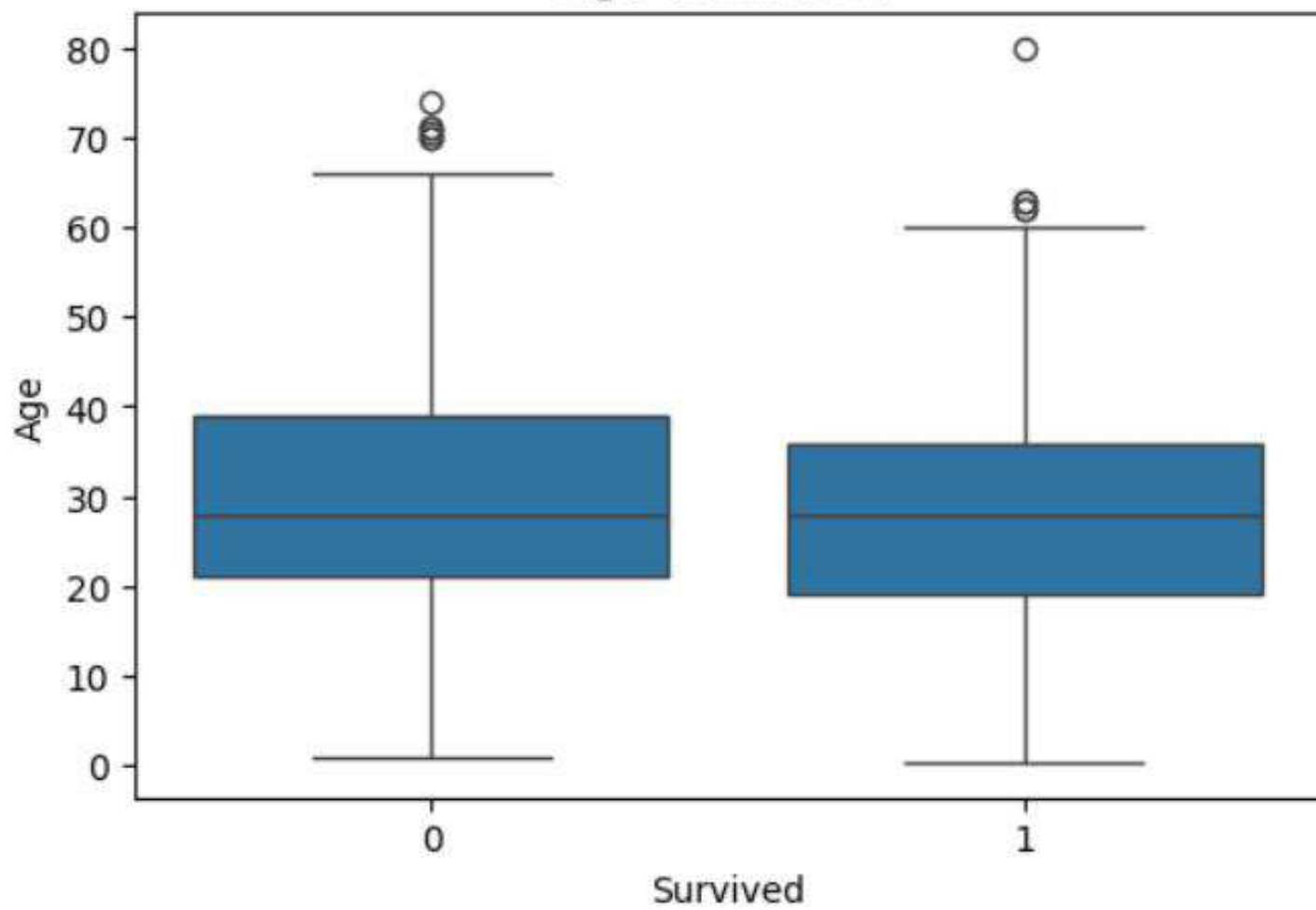
Survival by Gender



Survival by Passenger Class

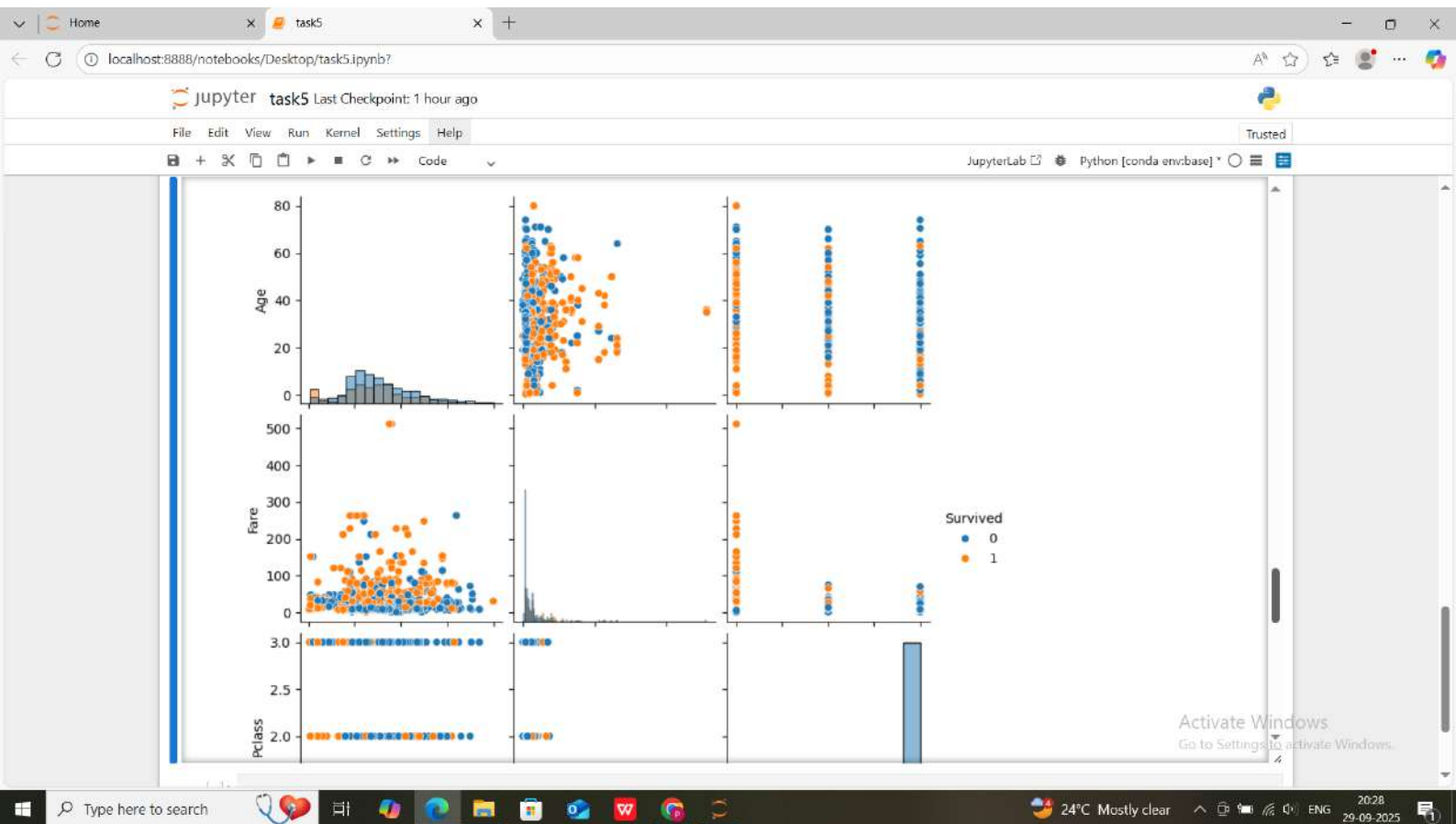


Age vs Survival



Correlation Heatmap





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task5

+

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JupyterLab Python [conda env:base]

Missing Values Before Cleaning:

PassengerId	0
Survived	0
Pclass	0
Name	0
Sex	0
Age	177
SibSp	0
Parch	0
Ticket	0
Fare	0
Cabin	687
Embarked	2

dtype: int64

Missing Values After Cleaning:

PassengerId	0
Survived	0
Pclass	0
Name	0
Sex	0
Age	0
SibSp	0
Parch	0
Ticket	0
Fare	0
Embarked	0

dtype: int64

--- Key Insights ---

1. More females survived than males.

2. Higher-class passengers (Pclass=1) had higher survival rates.

3. Younger passengers had slightly better survival chances.

4. Fare is positively correlated with survival.

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Home task5

localhost:8888/notebooks/Desktop/task5.ipynb?

jupyter task5 Last Checkpoint: 1 hour ago

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JupyterLab Python [conda env:base]

```
SibSp      0
Parch      0
Ticket     0
Fare       0
Embarked    0
dtype: int64
```

--- Key Insights ---

1. More females survived than males.
2. Higher-class passengers (Pclass=1) had higher survival rates.
3. Younger passengers had slightly better survival chances.
4. Fare is positively correlated with survival.
5. Age distribution is slightly right-skewed.

C:\Users\MSAF\AppData\Local\Temp\ipykernel_7736\404001527.py:96: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df['Age'].fillna(df['Age'].median(), inplace=True)
```

C:\Users\MSAF\AppData\Local\Temp\ipykernel_7736\404001527.py:97: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df['Embarked'].fillna(df['Embarked'].mode()[0], inplace=True)
```

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