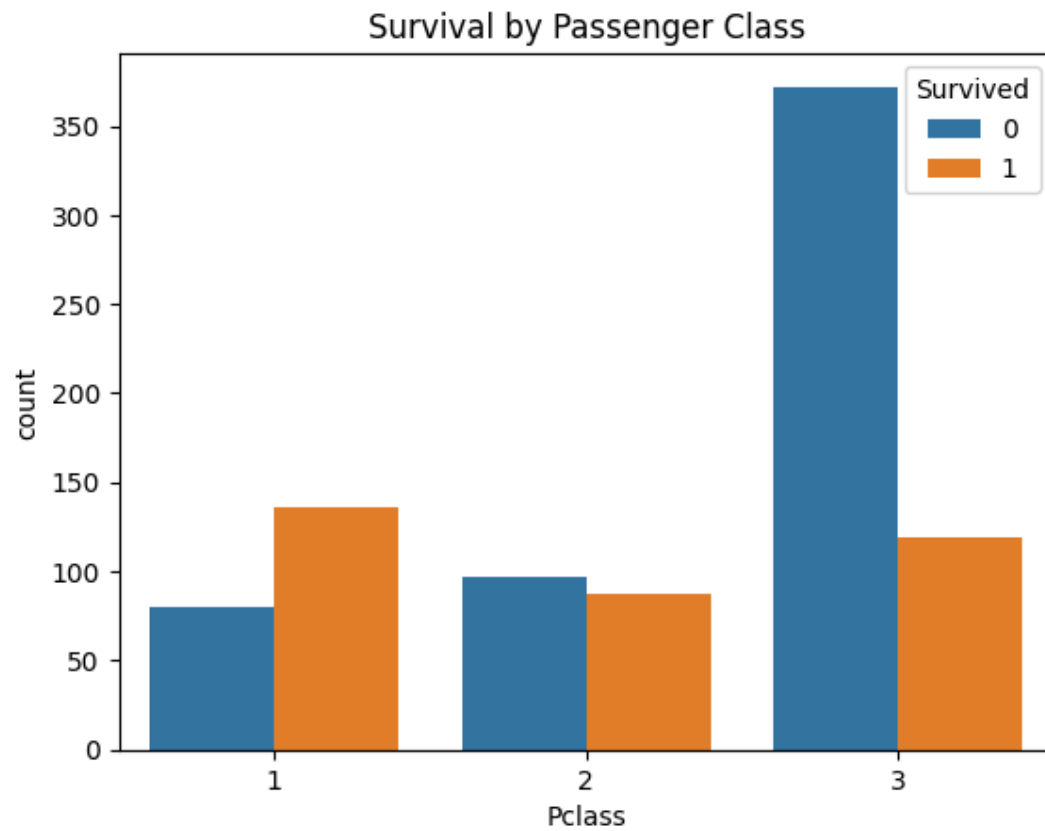


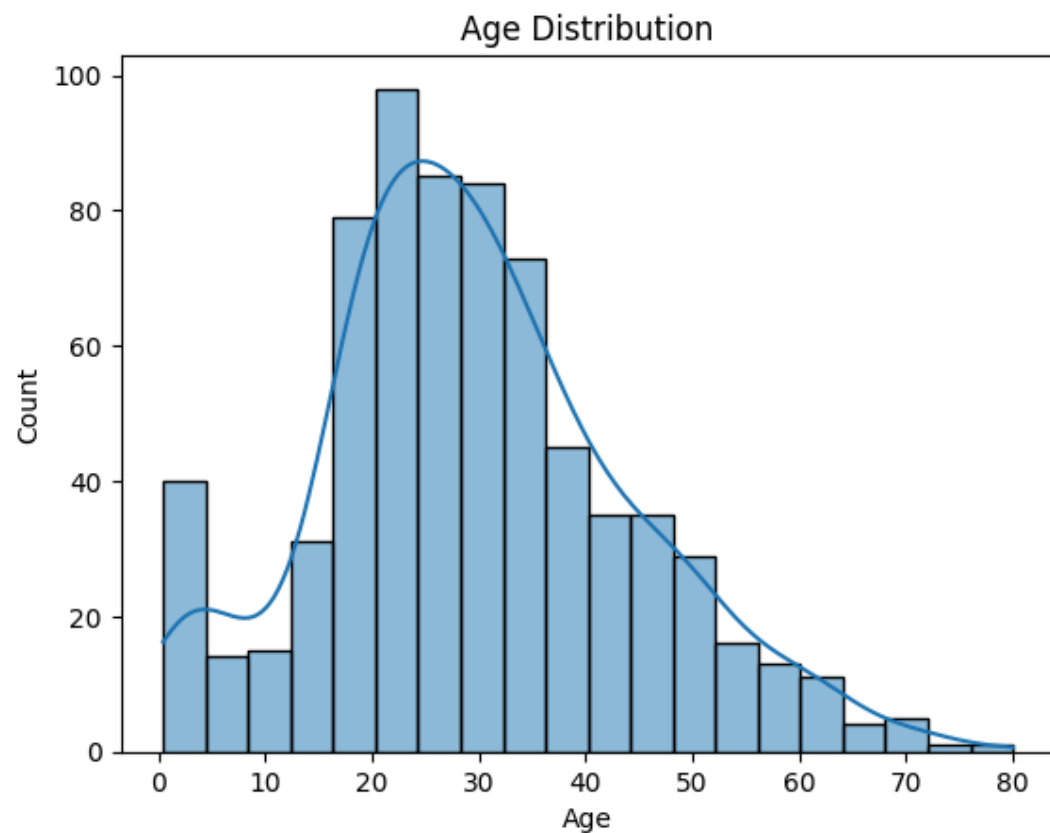
```
pip install pandas matplotlib seaborn
```

```
↔ Requirement already satisfied: pandas in /usr/local/lib/python3.11/dist-packages (2.2.2)  
Requirement already satisfied: matplotlib in /usr/local/lib/python3.11/dist-packages (3.10.0)  
Requirement already satisfied: seaborn in /usr/local/lib/python3.11/dist-packages (0.13.2)  
Requirement already satisfied: numpy>=1.23.2 in /usr/local/lib/python3.11/dist-packages (from pandas) (2.0.2)  
Requirement already satisfied: python-dateutil>=2.8.2 in /usr/local/lib/python3.11/dist-packages (from pandas) (2.8.2)  
Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.11/dist-packages (from pandas) (2025.2)  
Requirement already satisfied: tzdata>=2022.7 in /usr/local/lib/python3.11/dist-packages (from pandas) (2025.2)  
Requirement already satisfied: contourpy>=1.0.1 in /usr/local/lib/python3.11/dist-packages (from matplotlib) (1.3.1)  
Requirement already satisfied: cyclor>=0.10 in /usr/local/lib/python3.11/dist-packages (from matplotlib) (0.12.1)  
Requirement already satisfied: fonttools>=4.22.0 in /usr/local/lib/python3.11/dist-packages (from matplotlib) (4.57.0)  
Requirement already satisfied: kiwisolver>=1.3.1 in /usr/local/lib/python3.11/dist-packages (from matplotlib) (1.4.8)  
Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.11/dist-packages (from matplotlib) (24.2)  
Requirement already satisfied: pillow>=8 in /usr/local/lib/python3.11/dist-packages (from matplotlib) (11.1.0)  
Requirement already satisfied: pyparsing>=2.3.1 in /usr/local/lib/python3.11/dist-packages (from matplotlib) (3.2.3)  
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.11/dist-packages (from python-dateutil>=2.8.2->pandas) (1.17.0)
```

```
sns.countplot(x="Pclass", hue="Survived", data=df)  
plt.title("Survival by Passenger Class")  
plt.show()
```



```
sns.histplot(df['Age'].dropna(), kde=True)
plt.title("Age Distribution")
plt.show()
```



```
# See basic information about the dataset
df.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

```

```

# Get statistical summary
df.describe()

```

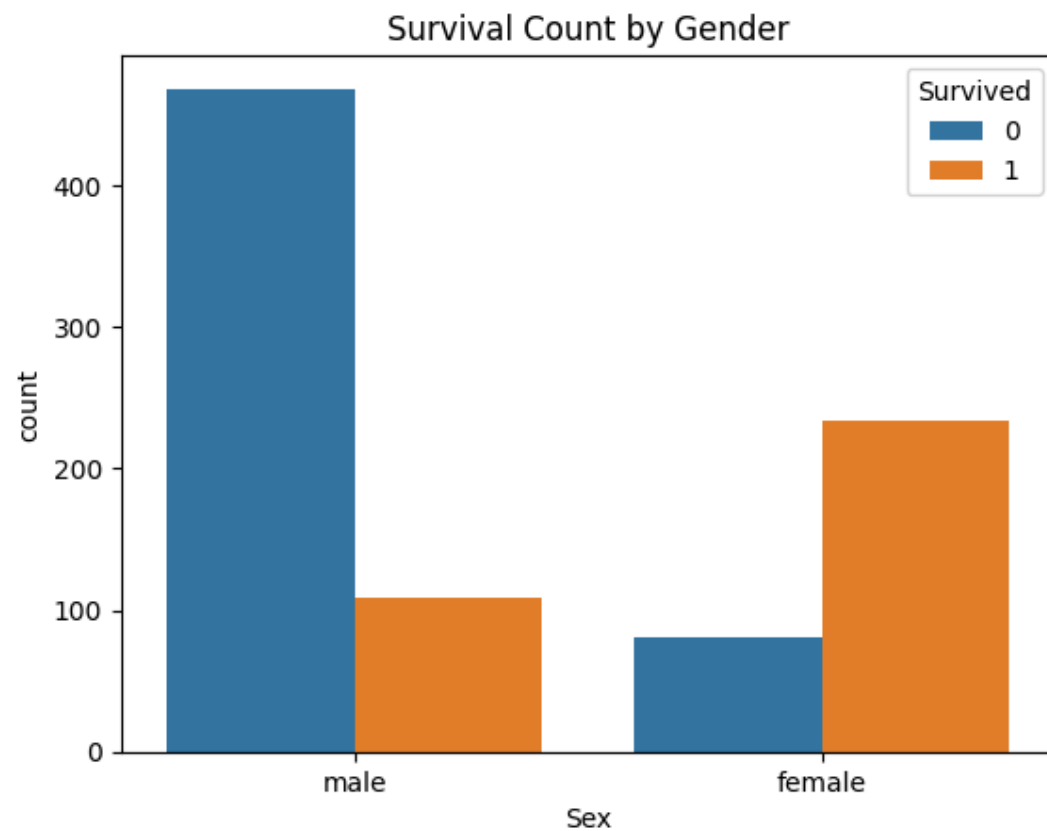
	PassengerId	Survived	Pclass	Age	SibSp	Parch	Fare
<b>count</b>	891.000000	891.000000	891.000000	714.000000	891.000000	891.000000	891.000000
<b>mean</b>	446.000000	0.383838	2.308642	29.699118	0.523008	0.381594	32.204208
<b>std</b>	257.353842	0.486592	0.836071	14.526497	1.102743	0.806057	49.693429
<b>min</b>	1.000000	0.000000	1.000000	0.420000	0.000000	0.000000	0.000000
<b>25%</b>	223.500000	0.000000	2.000000	20.125000	0.000000	0.000000	7.910400
<b>50%</b>	446.000000	0.000000	3.000000	28.000000	0.000000	0.000000	14.454200
<b>75%</b>	668.500000	1.000000	3.000000	38.000000	1.000000	0.000000	31.000000
<b>max</b>	891.000000	1.000000	3.000000	80.000000	8.000000	6.000000	512.329200

```

import seaborn as sns
import matplotlib.pyplot as plt

# Gender-wise survival count
sns.countplot(x="Sex", hue="Survived", data=df)
plt.title("Survival Count by Gender")
plt.show()

```



Most men survived compared to women.

```
import pandas as pd

# Load Titanic dataset from GitHub
df = pd.read_csv("https://raw.githubusercontent.com/datasciencedojo/datasets/master/titanic.csv")

# Show first 5 rows
df.head()
```



	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	NaN	S
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	0	PC 17599	71.2833	C85	C

