```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

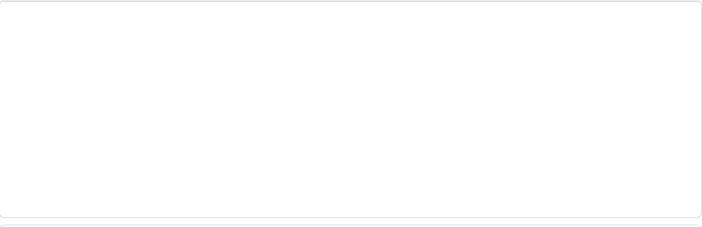
```
df = pd.read_csv("/content/sample_data/Titanic-Dataset.csv")
print(df.head())
                       # first 5 rows
print(df.info())
                       # data types + null values
print(df.describe()) # statistical summary
print(df.isnull().sum()) # missing values count
   Parch
                    Ticket
                               Fare Cabin Embarked
                 A/5 21171
                            7.2500 NaN
       0
                 PC 17599 71.2833
                                      C85
1
                                                 C
2
       0 STON/02. 3101282
                            7.9250
                                      NaN
                                                 S
3
       0
                   113803 53.1000 C123
       0
                    373450
                           8.0500
4
                                     NaN
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 891 entries, 0 to 890
Data columns (total 12 columns):
                 Non-Null Count Dtype
# Column
 0
     PassengerId 891 non-null
     Survived
                  891 non-null
                                  int64
 1
 2
     Pclass
                  891 non-null
                                  int64
 3
     Name
                  891 non-null
                                  object
                  891 non-null
     Sex
                                  object
                  714 non-null
 5
                                  float64
     Age
 6
     SibSp
                  891 non-null
                                  int64
                  891 non-null
     Parch
                                  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
       PassengerId
                      Survived
                                    Pclass
                                                   Age
                                                             SibSp
count
       891.000000 891.000000 891.000000 714.000000
                                                        891.000000
        446.000000
                      0.383838
                                  2.308642
                                             29.699118
                                                          0.523008
mean
std
        257.353842
                      0.486592
                                  0.836071
                                             14.526497
                                                          1.102743
                                                          0.000000
         1.000000
                      0.000000
                                  1.000000
                                              0.420000
min
                      0.000000
                                             20.125000
25%
        223.500000
                                  2.000000
                                                          0.000000
50%
        446.000000
                      0.000000
                                  3.000000
                                             28.000000
                                                          0.000000
75%
        668.500000
                      1.000000
                                  3.000000
                                             38.000000
                                                          1.000000
                                             80.000000
max
        891.000000
                      1.000000
                                  3.000000
                                                          8.000000
            Parch
                         Fare
count 891.000000 891.000000
         0.381594
                   32.204208
mean
std
         0.806057
                    49.693429
         0.000000
                    0.000000
min
25%
         0.000000
                    7.910400
50%
         0.000000
                    14.454200
75%
         0.000000
                   31.000000
         6.000000 512.329200
max
PassengerId
                 0
Survived
                 0
                 a
Pclass.
Name
                0
Sex
                 0
               177
Age
SibSp
                0
Parch
Ticket
                0
Fare
                0
Cabin
               687
Embarked
                 2
dtype: int64
```

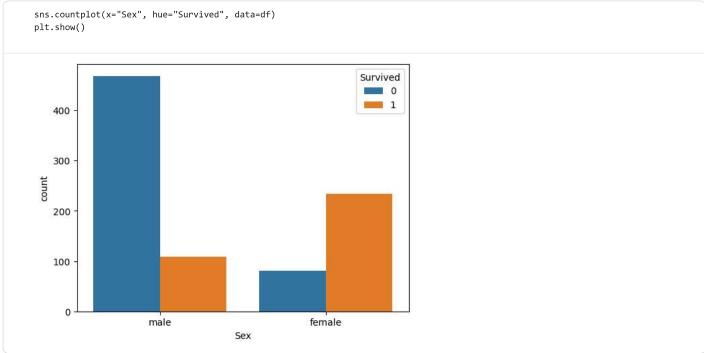
```
sns.countplot(x="Sex", data=df)
plt.show()

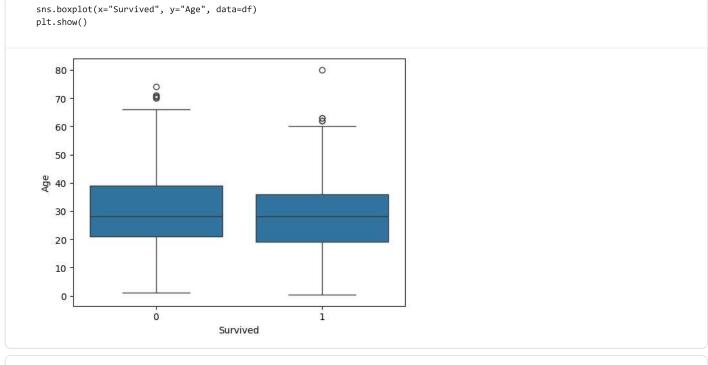
sns.countplot(x="Survived", data=df)
plt.show()
sns.histplot(df["Age"].dropna(), bins=20, kde=True)
plt.show()

sns.boxplot(x=df["Fare"])
```

Untitled2.ipynb - Colab plt.show()







Start coding or <u>generate</u> with AI.

