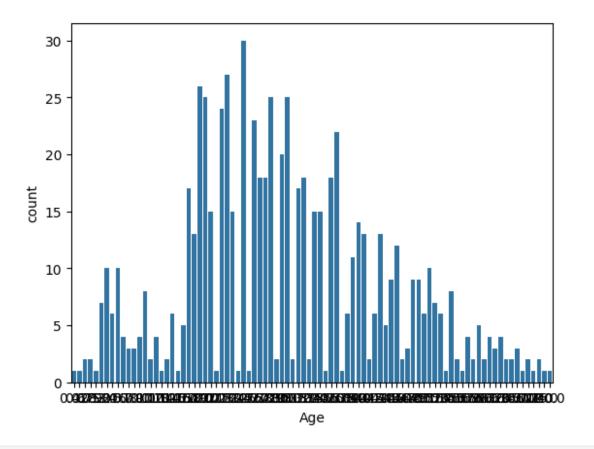
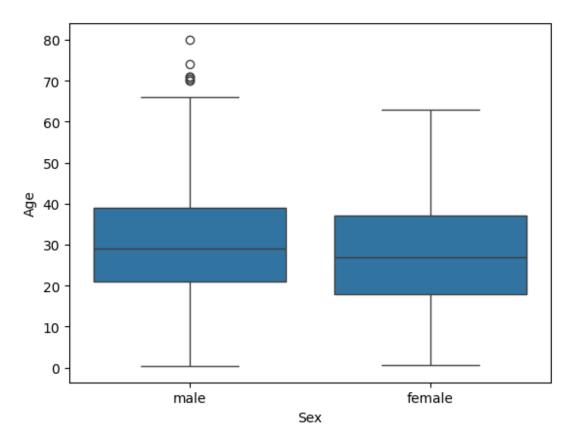
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
df=pd.read csv("titanic.csv")
df
{"summary":"{\n \"name\": \"df\",\n \"rows\": 891,\n \"fields\": [\
n {\n \"column\": \"PassengerId\",\n \"properties\": {\n
\"dtype\": \"number\",\n \"std\": 257,\n \"min\": 1,\n
\"max\": 891,\n \"num_unique_values\": 891,\n \"samples\": [\n 710,\n 440,\n 841\n ],\n \"semantic_type\": \"\",\n \"description\": \"\"\n
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\"num_unique_values\": 2,\n \"samples\": [\n
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                                                                  1, n
\"num_unique_values\": 3,\n \"samples\": [\n
1\n     ],\n    \"semantic type\": \"\",\n
\"num unique values\": 891,\n \"samples\": [\n
\"Moubarek, Master. Halim Gonios (\\\"William George\\\")\",\n
\"Kvillner, Mr. Johan Henrik Johannesson\"\n ],\n
\"semantic_type\": \"\",\n \"description\": \"\"\n }\
n },\n {\n \"column\": \"Sex\",\n \"properties\": {\n
\"dtype\": \"category\",\n \"num_unique_values\": 2,\n
\"samples\": [\n \"female\",\n \"male\"\n \"semantic_type\": \"\",\n \"description\": \"\"\n
      },\n {\n \"column\": \"Age\",\n \"properties\": {\
}\n
n \"dtype\": \"number\",\n \"std\": 14.526497332334042,\
n \"min\": 0.42,\n \"max\": 80.0,\n
\"num_unique_values\": 88,\n \"samples\": [\n 0.75,\n
\"num_unique_values\": 7,\n \"samples\": [\n 1,\n 0\n ],\n \"semantic_type\": \"\",\n \"description\": \"\"\n }\n {\n \"column\": \"Parch\",\n \"properties\": {\n \"dtype\": \"number\",\n \"std\": 0,\n \"min\": 0,\n \"max\": 6,\n
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1\n ],\n \"semantic_type\": \"\",\n
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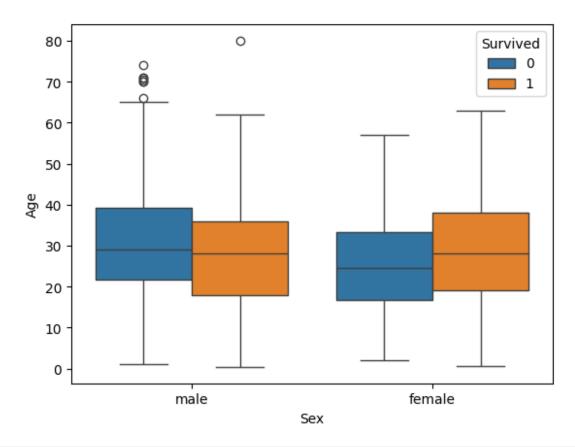
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\"num_unique_values\": 681,\n \"samples\": [\n
],\n
\"semantic_type\": \"\",\n \"description\": \"\"\n }\
n },\n {\n \"column\": \"Fare\",\n \"properties\": {\n
\"dtype\": \"number\",\n \"std\": 49.6934285971809,\n
\"min\": 0.0,\n \"max\": 512.3292,\n
\"num_unique_values\": 248,\n \"samples\": [\n 11.2417,\n 51.8625\n ],\n \"semantic_type\": \"\",\n \"description\": \"\"\n }\n {\n
\"column\": \"Cabin\",\n \"properties\": {\n
                                                     \"dtype\":
\"category\",\n \"num_unique_values\": 147,\n \"samples\": [\n \"D45\",\n \"B49\"
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\"semantic_type\": \"\",\n \"description\": \"\"\n }\
n },\n {\n \"column\": \"Embarked\",\n \"properties\":
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{\n
         \"samples\": [\n \"S\",\n \"C\"\n \"semantic_type\": \"\",\n \"description\": \"\"\n
3,\n
],\n
df.shape
(891, 12)
df.columns
Index(['PassengerId', 'Survived', 'Pclass', 'Name', 'Sex', 'Age',
'SibSp',
       Parch', 'Ticket', 'Fare', 'Cabin', 'Embarked'],
     dtype='object')
df.dtypes
PassengerId
                int64
Survived
                int64
Pclass
                int64
Name
               object
Sex
               object
Age
              float64
SibSp
                int64
Parch
                int64
Ticket
               object
Fare
              float64
Cabin
               object
Embarked
               object
dtype: object
sns.countplot(x=df['Age'])
<Axes: xlabel='Age', ylabel='count'>
```



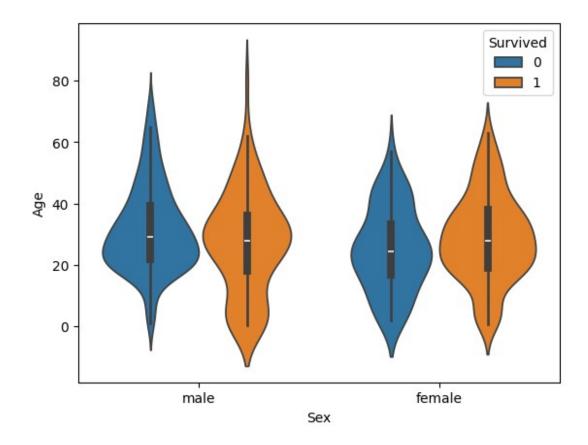
sns.boxplot(x=df['Sex'],y=df['Age'])
<Axes: xlabel='Sex', ylabel='Age'>



sns.boxplot(x=df['Sex'],y=df['Age'],hue=df['Survived'])
<Axes: xlabel='Sex', ylabel='Age'>



sns.violinplot(x=df['Sex'],y=df['Age'],hue=df['Survived'])
<Axes: xlabel='Sex', ylabel='Age'>



sns.barplot(x=df['Sex'],y=df['Age'],hue=df['Survived'])

<Axes: xlabel='Sex', ylabel='Age'>

