pip install seaborn

Requirement already satisfied: seaborn in /usr/local/lib/python3.11/dist-packages (0.13.2) Requirement already satisfied: numpy!=1.24.0,>=1.20 in /usr/local/lib/python3.11/dist-packages (from seaborn) (1.26.4) Requirement already satisfied: pandas>=1.2 in /usr/local/lib/python3.11/dist-packages (from seaborn) (2.2.2) Requirement already satisfied: matplotlib!=3.6.1,>=3.4 in /usr/local/lib/python3.11/dist-packages (from seaborn) (3.10.0 Requirement already satisfied: contourpy>=1.0.1 in /usr/local/lib/python3.11/dist-packages (from matplotlib!=3.6.1,>=3.4 Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.11/dist-packages (from matplotlib!=3.6.1,>=3.4->se Requirement already satisfied: fonttools>=4.22.0 in /usr/local/lib/python3.11/dist-packages (from matplotlib!=3.6.1,>=3. Requirement already satisfied: kiwisolver>=1.3.1 in /usr/local/lib/python3.11/dist-packages (from matplotlib!=3.6.1,>=3.  $Requirement already \ satisfied: \ packaging >= 20.0 \ in \ /usr/local/lib/python 3.11/dist-packages \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-packages) \ (from \ matplotlib! = 3.6.1, >= 3.4-local/lib/python 3.11/dist-pac$ Requirement already satisfied: pillow>=8 in /usr/local/lib/python3.11/dist-packages (from matplotlib!=3.6.1,>=3.4->seabo Requirement already satisfied: pyparsing>=2.3.1 in /usr/local/lib/python3.11/dist-packages (from matplotlib!=3.6.1,>=3.4 Requirement already satisfied: python-dateutil>=2.7 in /usr/local/lib/python3.11/dist-packages (from matplotlib!=3.6.1,> Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.11/dist-packages (from pandas>=1.2->seaborn) (2025 Requirement already satisfied: tzdata>=2022.7 in /usr/local/lib/python3.11/dist-packages (from pandas>=1.2->seaborn) (20 Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.11/dist-packages (from python-dateutil>=2.7->matplotli

import pandas as pd import numpy as np import matplotlib.pyplot as plt import seaborn as sns

dataset = sns.load dataset('titanic') dataset.head()

₹		survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male	deck	embark_town	alive	alone
	0	0	3	male	22.0	1	0	7.2500	S	Third	man	True	NaN	Southampton	no	False
	1	1	1	female	38.0	1	0	71.2833	С	First	woman	False	С	Cherbourg	yes	False
	2	1	3	female	26.0	0	0	7.9250	S	Third	woman	False	NaN	Southampton	yes	True
	3	1	1	female	35.0	1	0	53.1000	S	First	woman	False	С	Southampton	yes	False
	4	0	3	male	35.0	0	0	8.0500	S	Third	man	True	NaN	Southampton	no	True

New interactive sheet

Generate code with dataset sns.distplot(x = dataset['age'], bins = 10)

Next steps:

<ipython-input-4-0edf267bf961>:1: UserWarning:

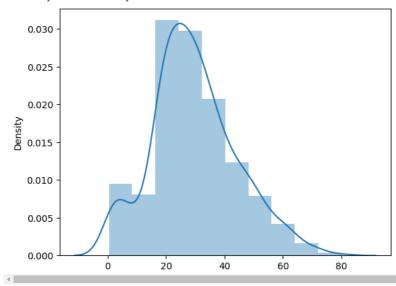
`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

View recommended plots

Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

sns.distplot(x = dataset['age'], bins = 10) <Axes: ylabel='Density'>



sns.distplot(dataset['age'], bins = 10,kde=False)

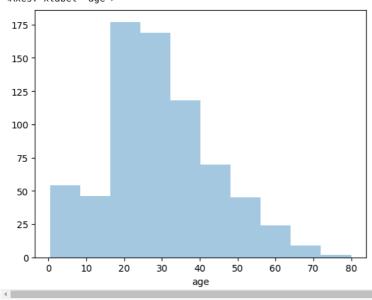
<ipython-input-5-f2dca48d8cal>:1: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

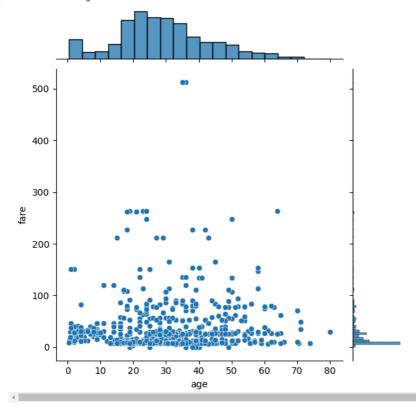
Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see  $\underline{\text{https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751}}$ 

sns.distplot(dataset['age'], bins = 10,kde=False)
<Axes: xlabel='age'>

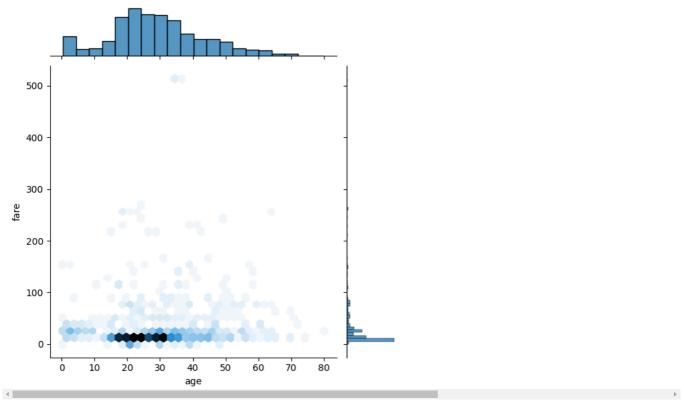


# For Plot 1
sns.jointplot(x = dataset['age'], y = dataset['fare'], kind =
'scatter')

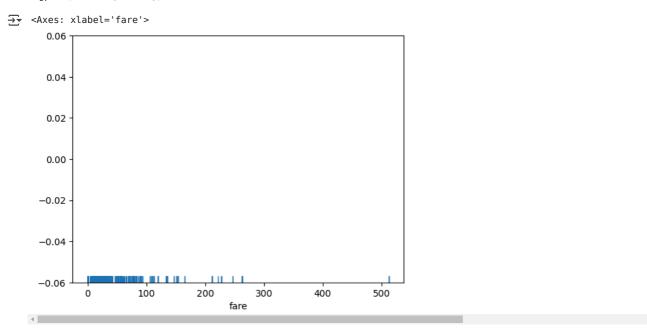


# For Plot 2
sns.jointplot(x = dataset['age'], y = dataset['fare'], kind = 'hex')

<seaborn.axisgrid.JointGrid at 0x7f2007f3c1d0>

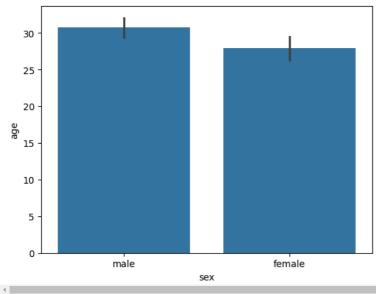


#The Rug Plot
sns.rugplot(dataset['fare'])

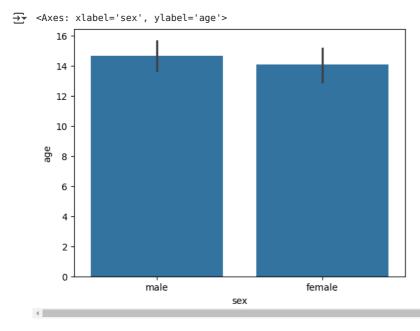


#The Bar Plot
sns.barplot(x='sex', y='age', data=dataset)

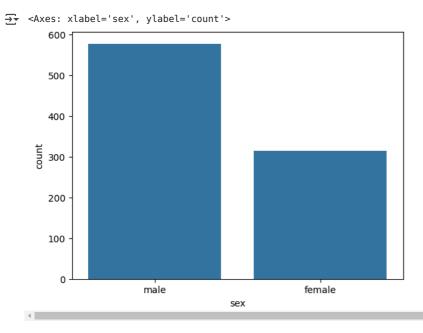
<Axes: xlabel='sex', ylabel='age'>



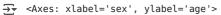
 $\verb|sns.barplot(x='sex', y='age', data=dataset, estimator=np.std)|\\$ 

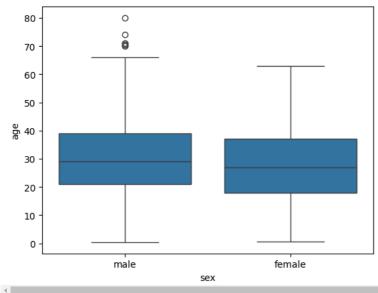


#The Count Plot
sns.countplot(x='sex', data=dataset)

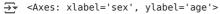


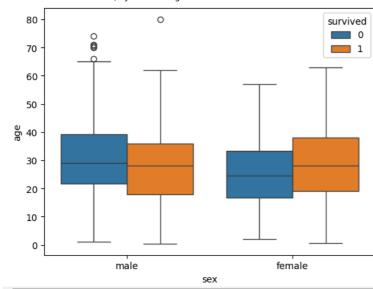
#The Box Plot
sns.boxplot(x='sex', y='age', data=dataset)





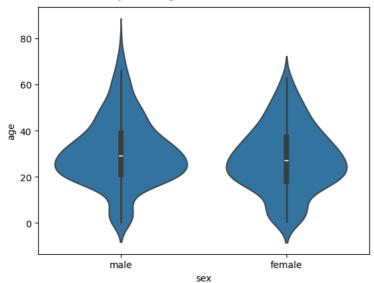
sns.boxplot(x='sex', y='age', data=dataset, hue="survived")



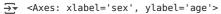


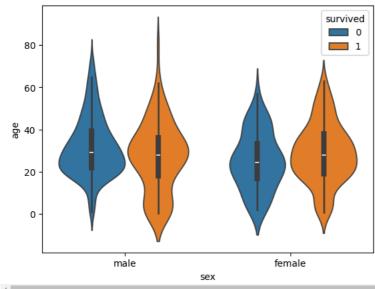
#The Violin Plot
sns.violinplot(x='sex', y='age', data=dataset)

## <Axes: xlabel='sex', ylabel='age'>

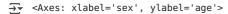


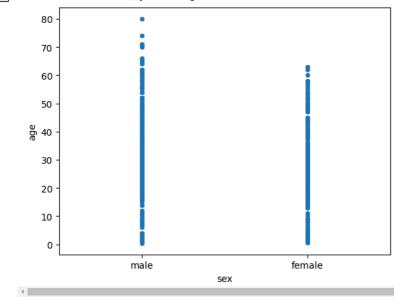
sns.violinplot(x='sex', y='age', data=dataset, hue='survived')





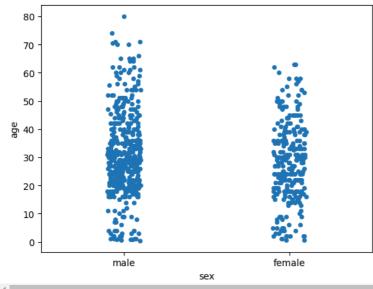
#The Strip Plot
sns.stripplot(x='sex', y='age', data=dataset, jitter=False)



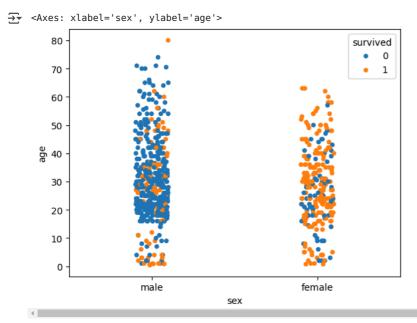


sns.stripplot(x='sex', y='age', data=dataset, jitter=True)

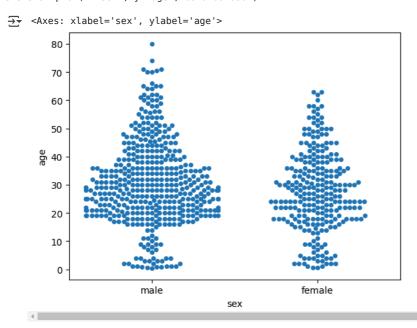
<Axes: xlabel='sex', ylabel='age'>



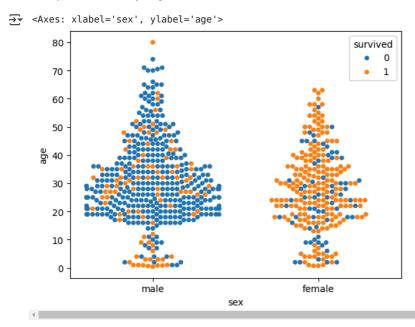
 $\verb|sns.stripplot(x='sex', y='age', data=dataset, jitter=True, hue='survived')|\\$ 



 $\label{the Swarm Plot} \mbox{ "The Swarm Plot} \\ \mbox{sns.swarmplot}(\mbox{x='sex'}, \mbox{ y='age'}, \mbox{ data=dataset}) \\$ 



sns.swarmplot(x='sex', y='age', data=dataset, hue='survived')



#Heat Maps
dataset = sns.load\_dataset('titanic')
dataset.head()

Next steps: Generate code with dataset

<b>→</b>		survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male	deck	embark_town	alive	alone
	0	0	3	male	22.0	1	0	7.2500	S	Third	man	True	NaN	Southampton	no	False
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	4	0	3	male	35.0	0	0	8.0500	S	Third	man	True	NaN	Southampton	no	True
	4															<b>•</b>

New interactive sheet

numerical\_features = dataset.select\_dtypes(include=[np.number])
numerical\_features.corr()

₹		survived	pclass	age	sibsp	parch	fare	
	survived	1.000000	-0.338481	-0.077221	-0.035322	0.081629	0.257307	11.
	pclass	-0.338481	1.000000	-0.369226	0.083081	0.018443	-0.549500	
	age	-0.077221	-0.369226	1.000000	-0.308247	-0.189119	0.096067	
	sibsp	-0.035322	0.083081	-0.308247	1.000000	0.414838	0.159651	
	parch	0.081629	0.018443	-0.189119	0.414838	1.000000	0.216225	
	fare	0.257307	-0.549500	0.096067	0.159651	0.216225	1.000000	
	4							

View recommended plots

sns.heatmap(numerical\_features.corr(), annot=True)

→ <Axes: >