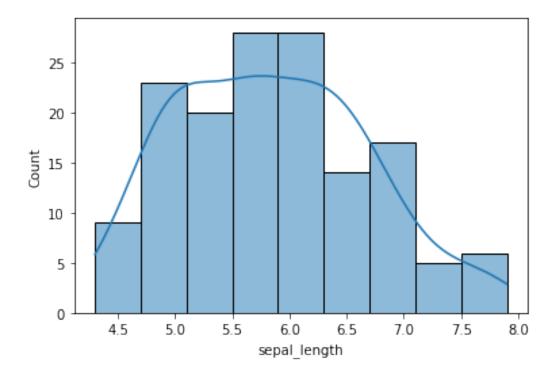
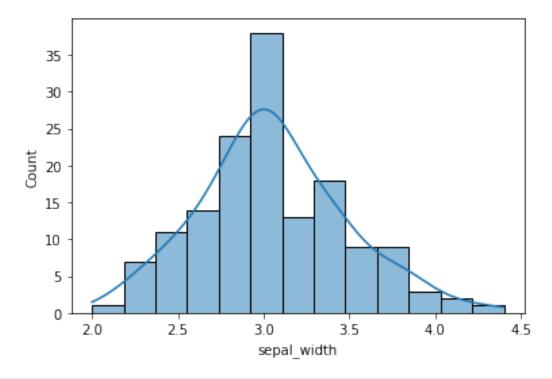
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
data =
pd.read csv('https://gist.githubusercontent.com/curran/a08a1080b88344b
0c8a7/raw/0e7a9b0a5d22642a06d3d5b9bcbad9890c8ee534/iris.csv')
data
     sepal length
                    sepal width
                                 petal length
                                                petal width
                                                                species
0
              5.1
                            3.5
                                           1.4
                                                         0.2
                                                                  setosa
1
              4.9
                            3.0
                                                         0.2
                                           1.4
                                                                  setosa
2
              4.7
                            3.2
                                           1.3
                                                         0.2
                                                                  setosa
3
                                                         0.2
               4.6
                            3.1
                                           1.5
                                                                  setosa
4
              5.0
                            3.6
                                           1.4
                                                         0.2
                                                                  setosa
               . . .
                            . . .
                                           . . .
                                                         . . .
                                           5.2
145
              6.7
                            3.0
                                                         2.3
                                                              virginica
                            2.5
                                           5.0
146
              6.3
                                                         1.9
                                                              virginica
                            3.0
                                           5.2
                                                         2.0
147
              6.5
                                                              virginica
148
              6.2
                            3.4
                                           5.4
                                                         2.3
                                                              virginica
149
                            3.0
                                                         1.8 virginica
              5.9
                                           5.1
[150 rows x 5 columns]
data.head()
   sepal length
                  sepal width
                               petal_length
                                              petal width species
0
            5.1
                          3.5
                                         1.4
                                                       0.2 setosa
1
            4.9
                          3.0
                                         1.4
                                                       0.2 setosa
2
                                                       0.2 setosa
            4.7
                          3.2
                                         1.3
3
            4.6
                          3.1
                                         1.5
                                                       0.2 setosa
4
            5.0
                          3.6
                                         1.4
                                                       0.2 setosa
data.describe()
                      sepal width
                                   petal length
                                                   petal width
       sepal length
         150.000000
                       150.000000
                                      150.000000
                                                    150.000000
count
mean
           5.843333
                         3.054000
                                        3.758667
                                                      1.198667
                                                      0.763161
           0.828066
                         0.433594
                                        1.764420
std
min
           4.300000
                         2.000000
                                        1.000000
                                                      0.100000
25%
           5.100000
                         2.800000
                                        1.600000
                                                      0.300000
50%
           5.800000
                         3.000000
                                        4.350000
                                                      1.300000
           6.400000
                         3.300000
                                        5.100000
75%
                                                      1.800000
           7.900000
                         4.400000
                                        6.900000
                                                      2.500000
max
data.describe(include = 'object')
       species
count
           150
unique
             3
```

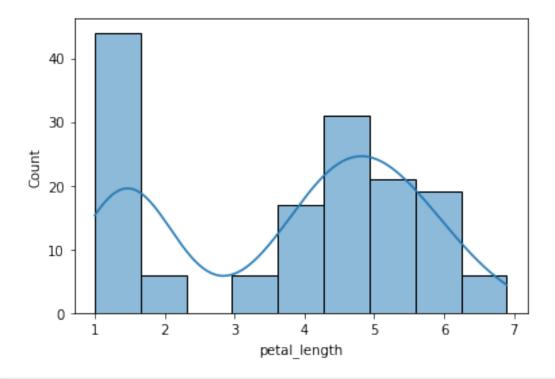
```
top
          setosa
               50
freq
data.isnull().sum()
sepal_length
sepal width
                    0
petal_length
                    0
petal width
                    0
                    0
species
dtype: int64
print("\n\nThe features in the dataset are as follows : ")
print("1. Sepal length : ", data['sepal_length'].dtype)
print("2. Sepal width : ", data['sepal_width'].dtype)
print("3. Petal length : ", data['petal_length'].dtype)
print("4. Petal width : ", data['petal_width'].dtype)
print("5. Species : ", data['species'].dtype)
The features in the dataset are as follows :
1. Sepal length: float64
2. Sepal width: float64
3. Petal length : float64
4. Petal width : float64
5. Species : object
sns.histplot(x = data['sepal length'], kde=True)
<matplotlib.axes. subplots.AxesSubplot at 0x7fe839f4d9d0>
```



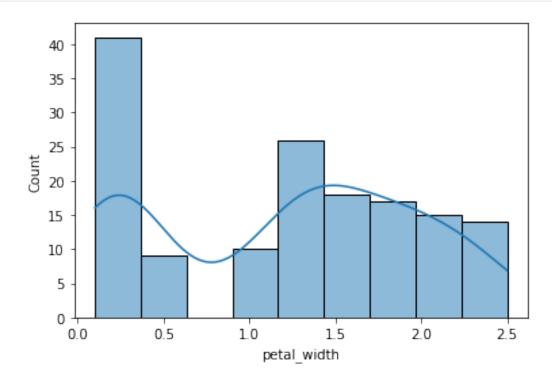
sns.histplot(x = data['sepal_width'], kde=True)
<matplotlib.axes._subplots.AxesSubplot at 0x7fe839343e90>



sns.histplot(x = data['petal_length'], kde=True)



sns.histplot(x = data['petal_width'], kde=True)
<matplotlib.axes._subplots.AxesSubplot at 0x7fe836c64f50>

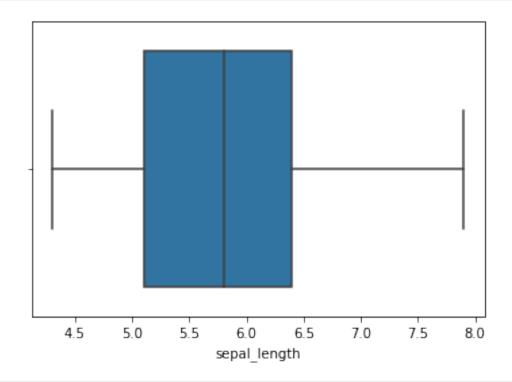


sns.boxplot(data['sepal length'])

/usr/local/lib/python3.7/dist-packages/seaborn/_decorators.py:43: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.

FutureWarning

<matplotlib.axes._subplots.AxesSubplot at 0x7fe836b8a8d0>

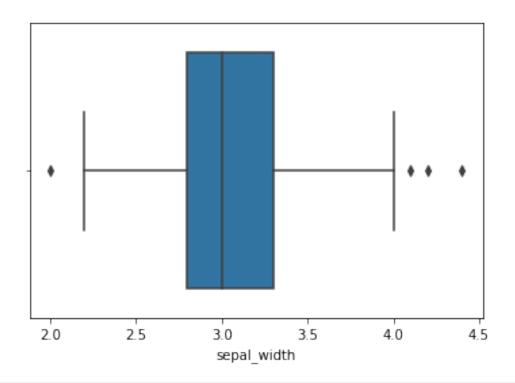


sns.boxplot(data['sepal width'])

/usr/local/lib/python3.7/dist-packages/seaborn/_decorators.py:43: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.

FutureWarning

<matplotlib.axes. subplots.AxesSubplot at 0x7fe836c79ed0>

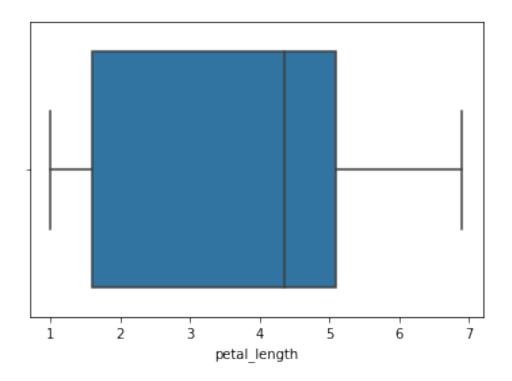


sns.boxplot(data['petal length'])

/usr/local/lib/python3.7/dist-packages/seaborn/_decorators.py:43: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.

FutureWarning

<matplotlib.axes._subplots.AxesSubplot at 0x7fe836bf8290>

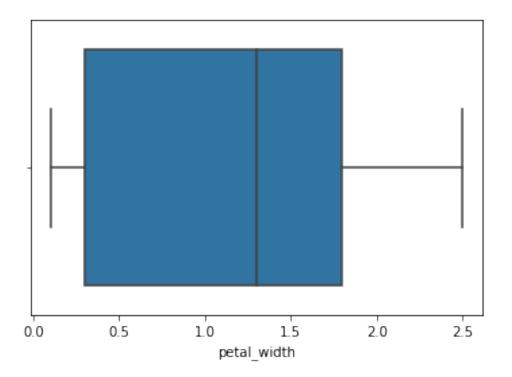


sns.boxplot(data['petal width'])

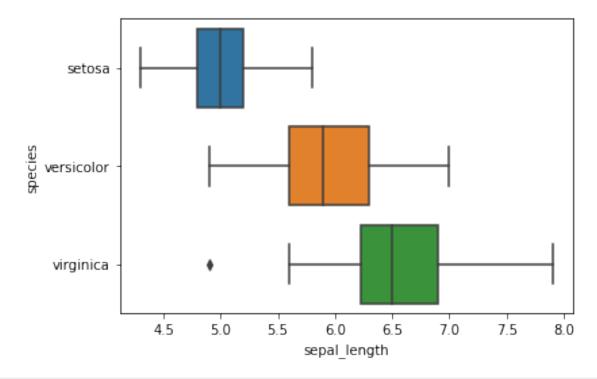
/usr/local/lib/python3.7/dist-packages/seaborn/_decorators.py:43: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.

FutureWarning

<matplotlib.axes._subplots.AxesSubplot at 0x7fe836a5f850>



sns.boxplot(x='sepal_length',y='species',data=data)
<matplotlib.axes._subplots.AxesSubplot at 0x7fe836a3ca90>



sns.boxplot(x='petal_length',y='species',data=data)

<matplotlib.axes._subplots.AxesSubplot at 0x7fe83696b950>

