April 15, 2024

```python
[1]: import pandas as pd
     import seaborn as sns
     import matplotlib.pyplot as plt
```

```python
[2]: pip install seaborn==0.11.0
```

```
Requirement already satisfied: seaborn==0.11.0 in
c:\users\tej\anaconda3\lib\site-packages (0.11.0)
Requirement already satisfied: scipy>=1.0 in c:\users\tej\anaconda3\lib\site-
packages (from seaborn==0.11.0) (1.5.0)
Requirement already satisfied: pandas>=0.23 in c:\users\tej\anaconda3\lib\site-
packages (from seaborn==0.11.0) (1.0.5)
Requirement already satisfied: matplotlib>=2.2 in
c:\users\tej\anaconda3\lib\site-packages (from seaborn==0.11.0) (3.2.2)
Requirement already satisfied: numpy>=1.15 in c:\users\tej\anaconda3\lib\site-
packages (from seaborn==0.11.0) (1.18.5)
Requirement already satisfied: python-dateutil>=2.6.1 in
c:\users\tej\anaconda3\lib\site-packages (from pandas>=0.23->seaborn==0.11.0)
(2.8.1)
Requirement already satisfied: pytz>=2017.2 in c:\users\tej\anaconda3\lib\site-
packages (from pandas>=0.23->seaborn==0.11.0) (2020.1)
Requirement already satisfied: pyparsing!=2.0.4,!=2.1.2,!=2.1.6,>=2.0.1 in
c:\users\tej\anaconda3\lib\site-packages (from matplotlib>=2.2->seaborn==0.11.0)
(2.4.7)
Requirement already satisfied: kiwisolver>=1.0.1 in
c:\users\tej\anaconda3\lib\site-packages (from matplotlib>=2.2->seaborn==0.11.0)
(1.2.0)
Requirement already satisfied: cycler>=0.10 in c:\users\tej\anaconda3\lib\site-
packages (from matplotlib>=2.2->seaborn==0.11.0) (0.10.0)
Requirement already satisfied: six>=1.5 in c:\users\tej\anaconda3\lib\site-
packages (from python-dateutil>=2.6.1->pandas>=0.23->seaborn==0.11.0) (1.15.0)
Note: you may need to restart the kernel to use updated packages.
```

```python
[3]: pwd
```

```
[3]: 'C:\\Users\\Tej'
```

```python
[4]: cd E:\
```

E:\
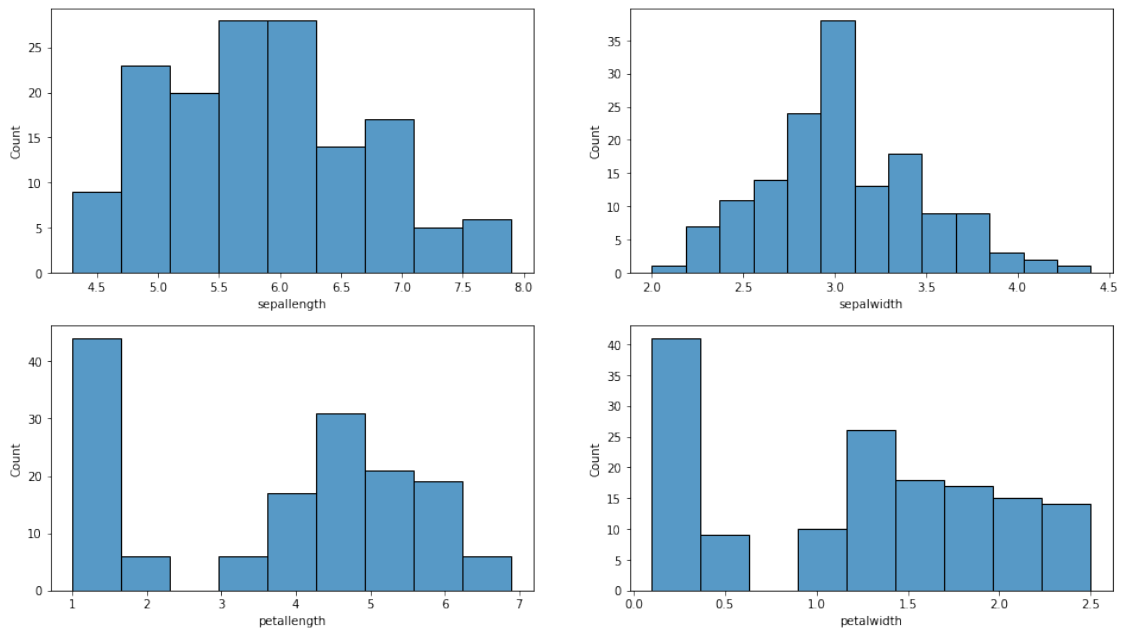
```
[14]: data = pd.read_csv('iris.csv')
```

```
[15]: data.head()
```

```
[15]:    sepallength  sepalwidth  petallength  petalwidth        class
       0          5.1         3.5          1.4         0.2  Iris-setosa
       1          4.9         3.0          1.4         0.2  Iris-setosa
       2          4.7         3.2          1.3         0.2  Iris-setosa
       3          4.6         3.1          1.5         0.2  Iris-setosa
       4          5.0         3.6          1.4         0.2  Iris-setosa
```

```
[7]: import matplotlib.pyplot as plt
     fig, axes = plt.subplots(2, 2, figsize = (16, 9))
     sns.histplot(data['sepallength'], ax = axes[0, 0])
     sns.histplot(data['sepalwidth'], ax = axes[0, 1])
     sns.histplot(data['petallength'], ax = axes[1, 0])
     sns.histplot(data['petalwidth'], ax = axes[1, 1])
```

```
[7]: <matplotlib.axes._subplots.AxesSubplot at 0x1e42c01e070>
```



```
[18]: import matplotlib.pyplot as plt
      fig, axes = plt.subplots(2, 2, figsize = (16, 9))
      sns.boxplot(y = 'petallength', x = 'class', data = data, ax = axes[0,0])
      sns.boxplot(y = 'petalwidth', x = 'class', data = data, ax = axes[0,1])
      sns.boxplot(y = 'sepallength', x = 'class', data = data, ax = axes[1,0])
```

```
sns.boxplot(y = 'sepalwidth', x = 'class', data = data, ax = axes[1,1])
```

[18]: <matplotlib.axes._subplots.AxesSubplot at 0x1e42d330130>