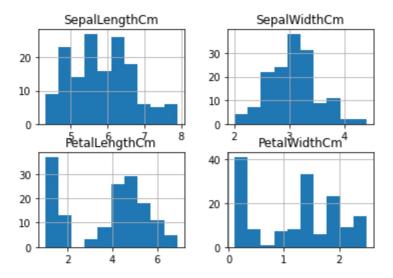
```
In [1]: import pandas as pd
data = pd.read_csv("Iris.csv")
data.head()
```

Out[1]:		SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm	Species
	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

Visualisation



Train Test Splitting

```
Out[5]: 114 Iris-virginica
62 Iris-versicolor
33 Iris-setosa
107 Iris-virginica
7 Iris-setosa
Name: Species, dtype: object
```

Classification

Prediction

```
In [7]: test_set_y.head(30)
```

```
Iris-virginica
        114
Out[7]:
        62
               Iris-versicolor
        33
                   Iris-setosa
        107
                Iris-virginica
        7
                   Iris-setosa
                Iris-virginica
        100
        40
                   Iris-setosa
        86
               Iris-versicolor
        76
               Iris-versicolor
               Iris-versicolor
        71
        134
                Iris-virginica
        51
               Iris-versicolor
        73
               Iris-versicolor
        54
               Iris-versicolor
        63
               Iris-versicolor
        37
                   Iris-setosa
        78
               Iris-versicolor
        90
               Iris-versicolor
        45
                   Iris-setosa
        16
                   Iris-setosa
        121
                Iris-virginica
        66
               Iris-versicolor
        24
                   Iris-setosa
        8
                   Iris-setosa
                Iris-virginica
        126
        22
                   Iris-setosa
        44
                   Iris-setosa
        97
               Iris-versicolor
        93
               Iris-versicolor
        26
                   Iris-setosa
        Name: Species, dtype: object
In [8]: y_pred = model.predict(test_set_x)
        y_pred
```

```
Out[8]: array(['Iris-virginica', 'Iris-versicolor', 'Iris-setosa', 'Iris-virginica', 'Iris-setosa', 'Iris-virginica', 'Iris-setosa', 'Iris-versicolor', 'Iris-versicolor', 'Iris-versicolor', 'Iris-versicolor', 'Iris-versicolor', 'Iris-versicolor', 'Iris-versicolor', 'Iris-setosa', 'Iris-versicolor', 'Iris-versicolor', 'Iris-setosa', 'Iris-setosa', 'Iris-virginica', 'Iris-versicolor', 'Iris-setosa', 'Iris-versicolor', 'Iris-setosa', 'Iris-versicolor', 'Iris-setosa', 'Iris-versicolor', 'Iris-setosa', 'Iris-versicolor', 'Iris-setosa'], dtype=object)
```

Accuracy

```
In [9]: from sklearn import metrics
    accu = metrics.accuracy_score(test_set_y, y_pred)
    accu

Out[9]: 0.96666666666667
In []:
```