LA03_Ex3_DataUnderstanding

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0.0.1 Team

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1 Data Understanding

Iris dataset

1.1 Task 1: Summary of the Dataset

- Dimensions of the dataset.
- Peek at the data itself.
- Statistical summary of all attributes.
- Breakdown of the data by the class variable.

```
Out[3]:
             sepal-length sepal-width petal-length petal-width
                                                                            class
        0
                      5.1
                                   3.5
                                                 1.4
                                                              0.2
                                                                      Iris-setosa
        1
                      4.9
                                   3.0
                                                 1.4
                                                              0.2
                                                                      Iris-setosa
                      4.7
                                   3.2
                                                 1.3
                                                              0.2
                                                                      Iris-setosa
        3
                      4.6
                                   3.1
                                                 1.5
                                                              0.2
                                                                      Iris-setosa
                      5.0
                                   3.6
                                                 1.4
                                                              0.2
                                                                      Iris-setosa
```

5	5.4	3.9	1.7	0.4	Iris-setosa
6	4.6	3.4	1.4	0.3	Iris-setosa
7	5.0	3.4	1.5	0.2	Iris-setosa
8	4.4	2.9	1.4	0.2	Iris-setosa
9	4.9	3.1	1.5	0.1	Iris-setosa
10	5.4	3.7	1.5	0.2	Iris-setosa
11	4.8	3.4	1.6	0.2	Iris-setosa
12	4.8	3.0	1.4	0.1	Iris-setosa
13	4.3	3.0	1.1	0.1	Iris-setosa
14	5.8	4.0	1.2	0.2	Iris-setosa
15	5.7	4.4	1.5	0.4	Iris-setosa
16	5.4	3.9	1.3	0.4	Iris-setosa
17	5.1	3.5	1.4	0.4	Iris-setosa Iris-setosa
18					
	5.7	3.8	1.7	0.3	Iris-setosa
19	5.1	3.8	1.5	0.3	Iris-setosa
20	5.4	3.4	1.7	0.2	Iris-setosa
21	5.1	3.7	1.5	0.4	Iris-setosa
22	4.6	3.6	1.0	0.2	Iris-setosa
23	5.1	3.3	1.7	0.5	Iris-setosa
24	4.8	3.4	1.9	0.2	Iris-setosa
25	5.0	3.0	1.6	0.2	Iris-setosa
26	5.0	3.4	1.6	0.4	Iris-setosa
27	5.2	3.5	1.5	0.2	Iris-setosa
28	5.2	3.4	1.4	0.2	Iris-setosa
29	4.7	3.2	1.6	0.2	Iris-setosa
120	6.9	3.2	5.7	2.3	Iris-virginica
121	5.6	2.8	4.9	2.0	Iris-virginica
122	7.7	2.8	6.7	2.0	Iris-virginica
123	6.3	2.7	4.9	1.8	Iris-virginica
124	6.7	3.3	5.7	2.1	Iris-virginica
125	7.2	3.2	6.0	1.8	Iris-virginica
126	6.2	2.8	4.8	1.8	Iris-virginica
127	6.1	3.0	4.9	1.8	Iris-virginica
128	6.4	2.8	5.6	2.1	Iris-virginica
129	7.2	3.0	5.8	1.6	Iris-virginica
130	7.4	2.8			•
			6.1	1.9	Iris-virginica
131	7.9	3.8	6.4	2.0	Iris-virginica
132	6.4	2.8	5.6	2.2	Iris-virginica
133	6.3	2.8	5.1	1.5	Iris-virginica
134	6.1	2.6	5.6	1.4	Iris-virginica
135	7.7	3.0	6.1	2.3	Iris-virginica
136	6.3	3.4	5.6	2.4	Iris-virginica
137	6.4	3.1	5.5	1.8	Iris-virginica
138	6.0	3.0	4.8	1.8	Iris-virginica
139	6.9	3.1	5.4	2.1	Iris-virginica
140	6.7	3.1	5.6	2.4	Iris-virginica
141	6.9	3.1	5.1	2.3	Iris-virginica

```
142
              5.8
                            2.7
                                           5.1
                                                        1.9 Iris-virginica
143
              6.8
                            3.2
                                           5.9
                                                        2.3 Iris-virginica
144
                                           5.7
                                                        2.5 Iris-virginica
              6.7
                            3.3
145
              6.7
                            3.0
                                           5.2
                                                        2.3 Iris-virginica
                                                        1.9 Iris-virginica
146
              6.3
                            2.5
                                           5.0
147
              6.5
                            3.0
                                           5.2
                                                        2.0 Iris-virginica
                                                        2.3 Iris-virginica
148
              6.2
                            3.4
                                           5.4
                                                        1.8 Iris-virginica
149
              5.9
                            3.0
                                           5.1
```

[150 rows x 5 columns]

In [4]: dataset.head()

class	petal-width	petal-length	sepal-width	sepal-length	Out[4]:
Iris-setosa	0.2	1.4	3.5	5.1	0
Iris-setosa	0.2	1.4	3.0	4.9	1
Iris-setosa	0.2	1.3	3.2	4.7	2
Iris-setosa	0.2	1.5	3.1	4.6	3
Iris-setosa	0.2	1.4	3.6	5.0	4

In [5]: dataset.describe()

```
Out[5]:
               sepal-length
                              sepal-width
                                            petal-length petal-width
                  150.000000
                               150.000000
                                              150.000000
                                                            150.000000
        count
        mean
                    5.843333
                                  3.054000
                                                3.758667
                                                              1.198667
        std
                    0.828066
                                 0.433594
                                                1.764420
                                                              0.763161
                    4.300000
                                 2.000000
                                                1.000000
                                                              0.100000
        min
        25%
                    5.100000
                                 2.800000
                                                1.600000
                                                              0.300000
        50%
                    5.800000
                                 3.000000
                                                4.350000
                                                              1.300000
        75%
                    6.400000
                                 3.300000
                                                5.100000
                                                              1.800000
        max
                    7.900000
                                 4.400000
                                                6.900000
                                                              2.500000
```

In [8]: unique_class_variables = dataset['class'].unique()

```
data_tables = [dataset[dataset['class'] == value] for value in unique_class_variables]
```

```
print data_tables[0]
print data_tables[1]
print data_tables[2]
```

	sepal-length	sepal-width	petal-length	petal-width	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
5	5.4	3.9	1.7	0.4	Iris-setosa
6	4.6	3.4	1.4	0.3	Iris-setosa
7	5.0	3.4	1.5	0.2	Iris-setosa

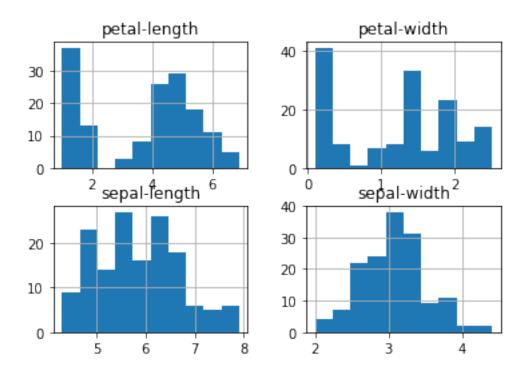
8 4.4 2.9 1.4 9 4.9 3.1 1.5 10 5.4 3.7 1.5 11 4.8 3.4 1.6 12 4.8 3.0 1.4 13 4.3 3.0 1.1 14 5.8 4.0 1.2 15 5.7 4.4 1.5 16 5.4 3.9 1.3 17 5.1 3.5 1.4 18 5.7 3.8 1.7 19 5.1 3.8 1.5 20 5.4 3.4 1.7 21 5.1 3.7 1.5 22 4.6 3.6 1.0 23 5.1 3.3 1.7 24 4.8 3.4 1.9 25 5.0 3.0 1.6 26 5.0 3.4 1.6 27 5.2 3.5 1.5 28 5.2 3.4 1.4 29 4.7 3.2 <th>0.1 Iris-setosa 0.2 Iris-setosa 0.2 Iris-setosa 0.1 Iris-setosa 0.1 Iris-setosa 0.2 Iris-setosa 0.4 Iris-setosa 0.4 Iris-setosa</th>	0.1 Iris-setosa 0.2 Iris-setosa 0.2 Iris-setosa 0.1 Iris-setosa 0.1 Iris-setosa 0.2 Iris-setosa 0.4 Iris-setosa 0.4 Iris-setosa
9 4.9 3.1 1.5 10 5.4 3.7 1.5 11 4.8 3.4 1.6 12 4.8 3.0 1.4 13 4.3 3.0 1.1 14 5.8 4.0 1.2 15 5.7 4.4 1.5 16 5.4 3.9 1.3 17 5.1 3.5 1.4 18 5.7 3.8 1.7 19 5.1 3.8 1.5 20 5.4 3.4 1.7 21 5.1 3.7 1.5 22 4.6 3.6 1.0 23 5.1 3.3 1.7 24 4.8 3.4 1.9 25 5.0 3.0 1.6 26 5.0 3.4 1.6 27 5.2 3.5 1.5 28 5.2 3.4 1.4 29 4.7 3.2 1.6 30 4.8 3.1 </td <td>0.1 Iris-setosa 0.2 Iris-setosa 0.2 Iris-setosa 0.1 Iris-setosa 0.1 Iris-setosa 0.2 Iris-setosa 0.4 Iris-setosa 0.4 Iris-setosa</td>	0.1 Iris-setosa 0.2 Iris-setosa 0.2 Iris-setosa 0.1 Iris-setosa 0.1 Iris-setosa 0.2 Iris-setosa 0.4 Iris-setosa 0.4 Iris-setosa
10 5.4 3.7 1.5 11 4.8 3.4 1.6 12 4.8 3.0 1.4 13 4.3 3.0 1.1 14 5.8 4.0 1.2 15 5.7 4.4 1.5 16 5.4 3.9 1.3 17 5.1 3.5 1.4 18 5.7 3.8 1.7 19 5.1 3.8 1.5 20 5.4 3.4 1.7 21 5.1 3.7 1.5 22 4.6 3.6 1.0 23 5.1 3.3 1.7 24 4.8 3.4 1.9 25 5.0 3.0 1.6 26 5.0 3.0 1.6 27 5.2 3.5 1.5 28 5.2 3.4 1.4 29 4.7 3.2 1.6 30 4.8 3.1 1.6 31 5.4 3.4<	0.2 Iris-setosa 0.2 Iris-setosa 0.1 Iris-setosa 0.1 Iris-setosa 0.2 Iris-setosa 0.4 Iris-setosa 0.4 Iris-setosa
11 4.8 3.4 1.6 12 4.8 3.0 1.4 13 4.3 3.0 1.1 14 5.8 4.0 1.2 15 5.7 4.4 1.5 16 5.4 3.9 1.3 17 5.1 3.5 1.4 18 5.7 3.8 1.7 19 5.1 3.8 1.5 20 5.4 3.4 1.7 21 5.1 3.7 1.5 22 4.6 3.6 1.0 23 5.1 3.3 1.7 24 4.8 3.4 1.9 25 5.0 3.0 1.6 26 5.0 3.4 1.6 27 5.2 3.5 1.5 28 5.2 3.4 1.4 29 4.7 3.2 1.6 30 4.8 3.1 1.6 31 5.4 3.4 1.5 32 5.2 4.1<	0.2 Iris-setosa 0.1 Iris-setosa 0.1 Iris-setosa 0.2 Iris-setosa 0.4 Iris-setosa 0.4 Iris-setosa
12 4.8 3.0 1.4 13 4.3 3.0 1.1 14 5.8 4.0 1.2 15 5.7 4.4 1.5 16 5.4 3.9 1.3 17 5.1 3.5 1.4 18 5.7 3.8 1.7 19 5.1 3.8 1.5 20 5.4 3.4 1.7 21 5.1 3.7 1.5 22 4.6 3.6 1.0 23 5.1 3.3 1.7 24 4.8 3.4 1.9 25 5.0 3.0 1.6 26 5.0 3.4 1.6 27 5.2 3.5 1.5 28 5.2 3.4 1.4 29 4.7 3.2 1.6 30 4.8 3.1 1.6 31 5.4 3.4 1.5 32 5.2 4.1 1.5 33 5.5 3.5<	0.1 Iris-setosa 0.1 Iris-setosa 0.2 Iris-setosa 0.4 Iris-setosa 0.4 Iris-setosa
13 4.3 3.0 1.1 14 5.8 4.0 1.2 15 5.7 4.4 1.5 16 5.4 3.9 1.3 17 5.1 3.5 1.4 18 5.7 3.8 1.7 19 5.1 3.8 1.5 20 5.4 3.4 1.7 21 5.1 3.7 1.5 22 4.6 3.6 1.0 23 5.1 3.3 1.7 24 4.8 3.4 1.9 25 5.0 3.0 1.6 26 5.0 3.4 1.9 25 5.0 3.4 1.6 27 5.2 3.5 1.5 28 5.2 3.4 1.4 29 4.7 3.2 1.6 30 4.8 3.1 1.6 31 5.4 3.4 1.5 32 5.2 4.1 1.5 33 5.5 4.2<	0.1 Iris-setosa 0.2 Iris-setosa 0.4 Iris-setosa 0.4 Iris-setosa
14 5.8 4.0 1.2 15 5.7 4.4 1.5 16 5.4 3.9 1.3 17 5.1 3.5 1.4 18 5.7 3.8 1.7 19 5.1 3.8 1.5 20 5.4 3.4 1.7 21 5.1 3.7 1.5 22 4.6 3.6 1.0 23 5.1 3.3 1.7 24 4.8 3.4 1.9 25 5.0 3.0 1.6 26 5.0 3.4 1.9 25 5.0 3.4 1.6 27 5.2 3.5 1.5 28 5.2 3.4 1.4 29 4.7 3.2 1.6 30 4.8 3.1 1.6 31 5.4 3.4 1.5 32 5.2 4.1 1.5 33 5.5 4.2 1.4 34 4.9 3.1<	0.2 Iris-setosa 0.4 Iris-setosa 0.4 Iris-setosa
15 5.7 4.4 1.5 16 5.4 3.9 1.3 17 5.1 3.5 1.4 18 5.7 3.8 1.7 19 5.1 3.8 1.5 20 5.4 3.4 1.7 21 5.1 3.7 1.5 22 4.6 3.6 1.0 23 5.1 3.3 1.7 24 4.8 3.4 1.9 25 5.0 3.0 1.6 26 5.0 3.4 1.6 27 5.2 3.5 1.5 28 5.2 3.4 1.4 29 4.7 3.2 1.6 30 4.8 3.1 1.6 31 5.4 3.4 1.5 32 5.2 4.1 1.5 33 5.5 4.2 1.4 34 4.9 3.1 1.5 35 5.0 3.2 1.2 36 5.5 3.5<	0.4 Iris-setosa 0.4 Iris-setosa
16 5.4 3.9 1.3 17 5.1 3.5 1.4 18 5.7 3.8 1.7 19 5.1 3.8 1.5 20 5.4 3.4 1.7 21 5.1 3.7 1.5 22 4.6 3.6 1.0 23 5.1 3.3 1.7 24 4.8 3.4 1.9 25 5.0 3.0 1.6 26 5.0 3.4 1.6 27 5.2 3.5 1.5 28 5.2 3.4 1.4 29 4.7 3.2 1.6 30 4.8 3.1 1.6 31 5.4 3.4 1.5 32 5.2 4.1 1.5 33 5.5 4.2 1.4 34 4.9 3.1 1.5 35 5.0 3.2 1.2 36 5.5 3.5 1.3 37 4.9 3.1<	0.4 Iris-setosa
17 5.1 3.5 1.4 18 5.7 3.8 1.7 19 5.1 3.8 1.5 20 5.4 3.4 1.7 21 5.1 3.7 1.5 22 4.6 3.6 1.0 23 5.1 3.3 1.7 24 4.8 3.4 1.9 25 5.0 3.0 1.6 26 5.0 3.4 1.6 27 5.2 3.5 1.5 28 5.2 3.4 1.4 29 4.7 3.2 1.6 30 4.8 3.1 1.6 31 5.4 3.4 1.5 32 5.2 4.1 1.5 33 5.5 4.2 1.4 34 4.9 3.1 1.5 35 5.0 3.2 1.2 36 5.5 3.5 1.3 37 4.9 3.1 1.5 38 4.4 3.0<	
18 5.7 3.8 1.7 19 5.1 3.8 1.5 20 5.4 3.4 1.7 21 5.1 3.7 1.5 22 4.6 3.6 1.0 23 5.1 3.3 1.7 24 4.8 3.4 1.9 25 5.0 3.0 1.6 26 5.0 3.4 1.6 27 5.2 3.5 1.5 28 5.2 3.4 1.4 29 4.7 3.2 1.6 30 4.8 3.1 1.6 31 5.4 3.4 1.5 32 5.2 4.1 1.5 33 5.5 4.2 1.4 34 4.9 3.1 1.5 35 5.0 3.2 1.2 36 5.5 3.5 1.3 37 4.9 3.1 1.5 38 4.4 3.0 1.3 40 5.0 3.5<	
19 5.1 3.8 1.5 20 5.4 3.4 1.7 21 5.1 3.7 1.5 22 4.6 3.6 1.0 23 5.1 3.3 1.7 24 4.8 3.4 1.9 25 5.0 3.0 1.6 26 5.0 3.4 1.6 27 5.2 3.5 1.5 28 5.2 3.4 1.4 29 4.7 3.2 1.6 30 4.8 3.1 1.6 31 5.4 3.4 1.5 32 5.2 4.1 1.5 33 5.5 4.2 1.4 34 4.9 3.1 1.5 35 5.0 3.2 1.2 36 5.5 3.5 1.3 37 4.9 3.1 1.5 38 4.4 3.0 1.3 40 5.0 3.5 1.3 41 4.5 2.3<	
20 5.4 3.4 1.7 21 5.1 3.7 1.5 22 4.6 3.6 1.0 23 5.1 3.3 1.7 24 4.8 3.4 1.9 25 5.0 3.0 1.6 26 5.0 3.4 1.6 27 5.2 3.5 1.5 28 5.2 3.4 1.4 29 4.7 3.2 1.6 30 4.8 3.1 1.6 31 5.4 3.4 1.5 32 5.2 4.1 1.5 33 5.5 4.2 1.4 34 4.9 3.1 1.5 35 5.0 3.2 1.2 36 5.5 3.5 1.3 37 4.9 3.1 1.5 38 4.4 3.0 1.3 39 5.1 3.4 1.5 40 5.0 3.5 1.3 41 4.5 2.3<	
21 5.1 3.7 1.5 22 4.6 3.6 1.0 23 5.1 3.3 1.7 24 4.8 3.4 1.9 25 5.0 3.0 1.6 26 5.0 3.4 1.6 27 5.2 3.5 1.5 28 5.2 3.4 1.4 29 4.7 3.2 1.6 30 4.8 3.1 1.6 31 5.4 3.4 1.5 32 5.2 4.1 1.5 33 5.5 4.2 1.4 34 4.9 3.1 1.5 35 5.0 3.2 1.2 36 5.5 3.5 1.3 37 4.9 3.1 1.5 38 4.4 3.0 1.3 39 5.1 3.4 1.5 40 5.0 3.5 1.3 41 4.5 2.3 1.3 42 4.4 3.2<	0.3 Iris-setosa
22 4.6 3.6 1.0 23 5.1 3.3 1.7 24 4.8 3.4 1.9 25 5.0 3.0 1.6 26 5.0 3.4 1.6 27 5.2 3.5 1.5 28 5.2 3.4 1.4 29 4.7 3.2 1.6 30 4.8 3.1 1.6 31 5.4 3.4 1.5 32 5.2 4.1 1.5 33 5.5 4.2 1.4 34 4.9 3.1 1.5 35 5.0 3.2 1.2 36 5.5 3.5 1.3 37 4.9 3.1 1.5 38 4.4 3.0 1.3 39 5.1 3.4 1.5 40 5.0 3.5 1.3 41 4.5 2.3 1.3 42 4.4 3.2 1.3 43 5.0 3.5<	0.2 Iris-setosa
23 5.1 3.3 1.7 24 4.8 3.4 1.9 25 5.0 3.0 1.6 26 5.0 3.4 1.6 27 5.2 3.5 1.5 28 5.2 3.4 1.4 29 4.7 3.2 1.6 30 4.8 3.1 1.6 31 5.4 3.4 1.5 32 5.2 4.1 1.5 33 5.5 4.2 1.4 34 4.9 3.1 1.5 35 5.0 3.2 1.2 36 5.5 3.5 1.3 37 4.9 3.1 1.5 38 4.4 3.0 1.3 39 5.1 3.4 1.5 40 5.0 3.5 1.3 41 4.5 2.3 1.3 42 4.4 3.2 1.3 43 5.0 3.5 1.6 44 5.1 3.8<	0.4 Iris-setosa
24 4.8 3.4 1.9 25 5.0 3.0 1.6 26 5.0 3.4 1.6 27 5.2 3.5 1.5 28 5.2 3.4 1.4 29 4.7 3.2 1.6 30 4.8 3.1 1.6 31 5.4 3.4 1.5 32 5.2 4.1 1.5 33 5.5 4.2 1.4 34 4.9 3.1 1.5 35 5.0 3.2 1.2 36 5.5 3.5 1.3 37 4.9 3.1 1.5 38 4.4 3.0 1.3 39 5.1 3.4 1.5 40 5.0 3.5 1.3 41 4.5 2.3 1.3 42 4.4 3.2 1.3 42 4.4 3.2 1.3 43 5.0 3.5 1.6 44 5.1 3.8<	0.2 Iris-setosa
24 4.8 3.4 1.9 25 5.0 3.0 1.6 26 5.0 3.4 1.6 27 5.2 3.5 1.5 28 5.2 3.4 1.4 29 4.7 3.2 1.6 30 4.8 3.1 1.6 31 5.4 3.4 1.5 32 5.2 4.1 1.5 33 5.5 4.2 1.4 34 4.9 3.1 1.5 35 5.0 3.2 1.2 36 5.5 3.5 1.3 37 4.9 3.1 1.5 38 4.4 3.0 1.3 39 5.1 3.4 1.5 40 5.0 3.5 1.3 41 4.5 2.3 1.3 42 4.4 3.2 1.3 42 4.4 3.2 1.3 43 5.0 3.5 1.6 44 5.1 3.8<	0.5 Iris-setosa
25 5.0 3.4 1.6 26 5.0 3.4 1.6 27 5.2 3.5 1.5 28 5.2 3.4 1.4 29 4.7 3.2 1.6 30 4.8 3.1 1.6 31 5.4 3.4 1.5 32 5.2 4.1 1.5 33 5.5 4.2 1.4 34 4.9 3.1 1.5 35 5.0 3.2 1.2 36 5.5 3.5 1.3 37 4.9 3.1 1.5 38 4.4 3.0 1.3 39 5.1 3.4 1.5 40 5.0 3.5 1.3 41 4.5 2.3 1.3 42 4.4 3.2 1.3 42 4.4 3.2 1.3 42 4.4 3.2 1.3 42 4.4 3.2 1.3 45 4.8 3.0<	0.2 Iris-setosa
26 5.0 3.4 1.6 27 5.2 3.5 1.5 28 5.2 3.4 1.4 29 4.7 3.2 1.6 30 4.8 3.1 1.6 31 5.4 3.4 1.5 32 5.2 4.1 1.5 33 5.5 4.2 1.4 34 4.9 3.1 1.5 35 5.0 3.2 1.2 36 5.5 3.5 1.3 37 4.9 3.1 1.5 38 4.4 3.0 1.3 39 5.1 3.4 1.5 40 5.0 3.5 1.3 41 4.5 2.3 1.3 42 4.4 3.2 1.3 43 5.0 3.5 1.6 44 5.1 3.8 1.9 45 4.8 3.0 1.4 46 5.1 3.8 1.6 47 4.6 3.2<	0.2 Iris-setosa
27 5.2 3.5 1.5 28 5.2 3.4 1.4 29 4.7 3.2 1.6 30 4.8 3.1 1.6 31 5.4 3.4 1.5 32 5.2 4.1 1.5 33 5.5 4.2 1.4 34 4.9 3.1 1.5 35 5.0 3.2 1.2 36 5.5 3.5 1.3 37 4.9 3.1 1.5 38 4.4 3.0 1.3 39 5.1 3.4 1.5 40 5.0 3.5 1.3 41 4.5 2.3 1.3 42 4.4 3.2 1.3 43 5.0 3.5 1.6 44 5.1 3.8 1.9 45 4.8 3.0 1.4 46 5.1 3.8 1.6 47 4.6 3.2 1.4 48 5.3 3.7<	0.4 Iris-setosa
28 5.2 3.4 1.4 29 4.7 3.2 1.6 30 4.8 3.1 1.6 31 5.4 3.4 1.5 32 5.2 4.1 1.5 33 5.5 4.2 1.4 34 4.9 3.1 1.5 35 5.0 3.2 1.2 36 5.5 3.5 1.3 37 4.9 3.1 1.5 38 4.4 3.0 1.3 39 5.1 3.4 1.5 40 5.0 3.5 1.3 41 4.5 2.3 1.3 42 4.4 3.2 1.3 42 4.4 3.2 1.3 43 5.0 3.5 1.6 44 5.1 3.8 1.9 45 4.8 3.0 1.4 46 5.1 3.8 1.6 47 4.6 3.2 1.4 48 5.3 3.7<	0.2 Iris-setosa
29 4.7 3.2 1.6 30 4.8 3.1 1.6 31 5.4 3.4 1.5 32 5.2 4.1 1.5 33 5.5 4.2 1.4 34 4.9 3.1 1.5 35 5.0 3.2 1.2 36 5.5 3.5 1.3 37 4.9 3.1 1.5 38 4.4 3.0 1.3 39 5.1 3.4 1.5 40 5.0 3.5 1.3 41 4.5 2.3 1.3 42 4.4 3.2 1.3 43 5.0 3.5 1.6 44 5.1 3.8 1.9 45 4.8 3.0 1.4 46 5.1 3.8 1.6 47 4.6 3.2 1.4 48 5.3 3.7 1.5	0.2 Iris-setosa
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32 5.2 4.1 1.5 33 5.5 4.2 1.4 34 4.9 3.1 1.5 35 5.0 3.2 1.2 36 5.5 3.5 1.3 37 4.9 3.1 1.5 38 4.4 3.0 1.3 39 5.1 3.4 1.5 40 5.0 3.5 1.3 41 4.5 2.3 1.3 42 4.4 3.2 1.3 43 5.0 3.5 1.6 44 5.1 3.8 1.9 45 4.8 3.0 1.4 46 5.1 3.8 1.6 47 4.6 3.2 1.4 48 5.3 3.7 1.5	0.2 Iris-setosa
33 5.5 4.2 1.4 34 4.9 3.1 1.5 35 5.0 3.2 1.2 36 5.5 3.5 1.3 37 4.9 3.1 1.5 38 4.4 3.0 1.3 39 5.1 3.4 1.5 40 5.0 3.5 1.3 41 4.5 2.3 1.3 42 4.4 3.2 1.3 43 5.0 3.5 1.6 44 5.1 3.8 1.9 45 4.8 3.0 1.4 46 5.1 3.8 1.6 47 4.6 3.2 1.4 48 5.3 3.7 1.5	0.4 Iris-setosa
34 4.9 3.1 1.5 35 5.0 3.2 1.2 36 5.5 3.5 1.3 37 4.9 3.1 1.5 38 4.4 3.0 1.3 39 5.1 3.4 1.5 40 5.0 3.5 1.3 41 4.5 2.3 1.3 42 4.4 3.2 1.3 43 5.0 3.5 1.6 44 5.1 3.8 1.9 45 4.8 3.0 1.4 46 5.1 3.8 1.6 47 4.6 3.2 1.4 48 5.3 3.7 1.5	0.1 Iris-setosa
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36 5.5 3.5 1.3 37 4.9 3.1 1.5 38 4.4 3.0 1.3 39 5.1 3.4 1.5 40 5.0 3.5 1.3 41 4.5 2.3 1.3 42 4.4 3.2 1.3 43 5.0 3.5 1.6 44 5.1 3.8 1.9 45 4.8 3.0 1.4 46 5.1 3.8 1.6 47 4.6 3.2 1.4 48 5.3 3.7 1.5	0.1 Iris-setosa
37 4.9 3.1 1.5 38 4.4 3.0 1.3 39 5.1 3.4 1.5 40 5.0 3.5 1.3 41 4.5 2.3 1.3 42 4.4 3.2 1.3 43 5.0 3.5 1.6 44 5.1 3.8 1.9 45 4.8 3.0 1.4 46 5.1 3.8 1.6 47 4.6 3.2 1.4 48 5.3 3.7 1.5	0.2 Iris-setosa
38 4.4 3.0 1.3 39 5.1 3.4 1.5 40 5.0 3.5 1.3 41 4.5 2.3 1.3 42 4.4 3.2 1.3 43 5.0 3.5 1.6 44 5.1 3.8 1.9 45 4.8 3.0 1.4 46 5.1 3.8 1.6 47 4.6 3.2 1.4 48 5.3 3.7 1.5	0.2 Iris-setosa
39 5.1 3.4 1.5 40 5.0 3.5 1.3 41 4.5 2.3 1.3 42 4.4 3.2 1.3 43 5.0 3.5 1.6 44 5.1 3.8 1.9 45 4.8 3.0 1.4 46 5.1 3.8 1.6 47 4.6 3.2 1.4 48 5.3 3.7 1.5	0.1 Iris-setosa
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41 4.5 2.3 1.3 42 4.4 3.2 1.3 43 5.0 3.5 1.6 44 5.1 3.8 1.9 45 4.8 3.0 1.4 46 5.1 3.8 1.6 47 4.6 3.2 1.4 48 5.3 3.7 1.5	0.2 Iris-setosa
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42 4.4 3.2 1.3 43 5.0 3.5 1.6 44 5.1 3.8 1.9 45 4.8 3.0 1.4 46 5.1 3.8 1.6 47 4.6 3.2 1.4 48 5.3 3.7 1.5	0.3 Iris-setosa
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sepal-length sepal-width petal-length	-
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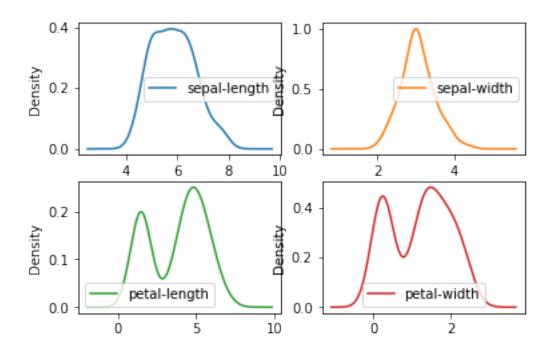
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58 6.6 2.9 4.6 1.3 Tris-versicolor 59 5.2 2.7 3.9 1.4 Tris-versicolor 60 5.0 2.0 3.5 1.0 Tris-versicolor 61 5.9 3.0 4.2 1.5 Tris-versicolor 62 6.0 2.2 4.0 1.0 Tris-versicolor 64 5.6 2.9 3.6 1.3 Tris-versicolor 65 6.7 3.1 4.4 1.4 Tris-versicolor 66 5.6 3.0 4.5 1.5 Tris-versicolor 67 5.8 2.7 4.1 1.0 Tris-versicolor 68 6.2 2.2 4.5 1.5 Tris-versicolor 70 5.9 3.2 4.8 1.8 Tris-versicolor 71 6.1 2.8 4.7 1.2 Iris-versicolor 72 6.3 2.5 4.9 1.5 Iris-versicolor						
59 5.2 2.7 3.9 1.4 Tris-versicolor 60 5.0 2.0 3.5 1.0 Tris-versicolor 61 5.9 3.0 4.2 1.5 Iris-versicolor 62 6.0 2.2 4.0 1.0 Iris-versicolor 63 6.1 2.9 3.6 1.3 Iris-versicolor 65 6.7 3.1 4.4 1.4 Iris-versicolor 66 5.6 3.0 4.5 1.5 Iris-versicolor 67 5.8 2.7 4.1 1.0 Iris-versicolor 68 6.2 2.2.2 4.5 1.5 Iris-versicolor 70 5.9 3.2 4.8 1.8 Iris-versicolor 71 6.1 2.8 4.0 1.3 Iris-versicolor 72 6.3 2.9 4.3 1.3 Iris-versicolor 74 6.4 2.9 4.3 1.3 Iris-versicolor						
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62 6.0 2.2 4.0 1.0 Iris-versicolor 63 6.1 2.9 4.7 1.4 Iris-versicolor 64 5.6 2.9 3.6 1.3 Iris-versicolor 65 6.7 3.1 4.4 1.4 Iris-versicolor 66 5.6 3.0 4.5 1.5 Iris-versicolor 68 6.2 2.2 4.5 1.5 Iris-versicolor 70 5.9 3.2 4.8 1.8 Iris-versicolor 71 6.1 2.8 4.0 1.3 Iris-versicolor 72 6.3 2.5 4.9 1.5 Iris-versicolor 72 6.3 2.5 4.9 1.3 Iris-versicolor 74 6.4 2.9 4.3 1.3 Iris-versicolor 75 6.6 3.0 4.4 1.4 Iris-versicolor 76 6.8 2.8 4.8 1.4 Iris-versicolor		5.0		3.5	1.0	Iris-versicolor
63 6.1 2.9 4.7 1.4 Tris-versicolor 65 6.7 3.1 4.4 1.4 Iris-versicolor 66 5.6 3.0 4.5 1.5 Iris-versicolor 67 5.8 2.7 4.1 1.0 Iris-versicolor 68 6.2 2.2 4.5 1.5 Iris-versicolor 69 5.6 2.5 3.9 1.1 Iris-versicolor 70 5.9 3.2 4.8 1.8 Iris-versicolor 71 6.1 2.8 4.0 1.3 Iris-versicolor 72 6.3 2.5 4.9 1.5 Iris-versicolor 73 6.1 2.8 4.7 1.2 Iris-versicolor 74 6.4 2.9 4.3 1.5 Iris-versicolor 75 6.6 3.0 4.4 1.4 Iris-versicolor 77 6.7 3.0 5.0 1.7 Iris-versicolor	61	5.9	3.0	4.2	1.5	Iris-versicolor
64 5.6 2.9 3.6 1.3 Iris-versicolor 65 6.7 3.1 4.4 1.4 Iris-versicolor 66 5.6 3.0 4.5 1.5 Iris-versicolor 68 6.2 2.2 4.5 1.5 Iris-versicolor 69 5.6 2.5 3.9 1.1 Iris-versicolor 70 5.9 3.2 4.8 1.8 Iris-versicolor 71 6.1 2.8 4.0 1.3 Iris-versicolor 72 6.3 2.5 4.9 1.5 Iris-versicolor 74 6.4 2.9 4.3 1.3 Iris-versicolor 75 6.6 3.0 4.4 1.4 Iris-versicolor 76 6.8 2.8 4.8 1.4 Iris-versicolor 77 6.7 3.0 5.0 1.7 Iris-versicolor 78 6.0 2.9 4.5 1.5 Iris-versicolor	62	6.0	2.2	4.0	1.0	Iris-versicolor
65 6.7 3.1 4.4 1.4 Iris-versicolor 66 5.6 3.0 4.5 1.5 Iris-versicolor 67 5.8 2.7 4.1 1.0 Iris-versicolor 68 6.2 2.2 4.5 1.5 Iris-versicolor 70 5.9 3.2 4.8 1.8 Iris-versicolor 71 6.1 2.8 4.0 1.3 Iris-versicolor 72 6.3 2.5 4.9 1.5 Iris-versicolor 72 6.3 2.5 4.9 1.5 Iris-versicolor 74 6.4 2.9 4.3 1.3 Iris-versicolor 75 6.6 3.0 4.4 1.4 Iris-versicolor 76 6.8 2.8 4.8 1.4 Iris-versicolor 77 6.7 3.0 5.0 1.7 Iris-versicolor 78 6.0 2.9 4.5 1.5 Iris-versicolor	63	6.1	2.9		1.4	Iris-versicolor
66 5.6 3.0 4.5 1.5 Iris-versicolor 67 5.8 2.7 4.1 1.0 Iris-versicolor 68 6.2 2.2 4.5 1.5 Iris-versicolor 70 5.9 3.2 4.8 1.3 Iris-versicolor 71 6.1 2.8 4.0 1.3 Iris-versicolor 72 6.3 2.5 4.9 1.5 Iris-versicolor 73 6.1 2.8 4.7 1.2 Iris-versicolor 74 6.4 2.9 4.3 1.3 Iris-versicolor 75 6.6 3.0 4.4 1.4 Iris-versicolor 76 6.8 2.8 4.8 1.4 Iris-versicolor 77 6.7 3.0 5.0 1.7 Iris-versicolor 78 6.0 2.9 4.5 1.5 Iris-versicolor 80 5.5 2.4 3.7 1.0 Iris-versicolor	64	5.6	2.9	3.6	1.3	Iris-versicolor
67 5.8 2.7 4.1 1.0 Iris-versicolor 68 6.2 2.2 4.5 1.5 Iris-versicolor 70 5.9 3.2 4.8 1.8 Iris-versicolor 71 6.1 2.8 4.0 1.3 Iris-versicolor 72 6.3 2.5 4.9 1.5 Iris-versicolor 74 6.4 2.9 4.3 1.3 Iris-versicolor 75 6.6 3.0 4.4 1.4 Iris-versicolor 75 6.6 3.0 4.4 1.4 Iris-versicolor 76 6.8 2.8 4.8 1.4 Iris-versicolor 77 6.7 3.0 5.0 1.7 Iris-versicolor 79 5.7 2.6 3.5 1.0 Iris-versicolor 80 5.5 2.4 3.7 1.0 Iris-versicolor 81 5.5 2.4 3.7 1.0 Iris-versicolor	65	6.7	3.1	4.4	1.4	Iris-versicolor
68 6.2 2.2 4.5 1.5 Iris-versicolor 70 5.9 3.2 4.8 1.8 Iris-versicolor 71 6.1 2.8 4.0 1.3 Iris-versicolor 72 6.3 2.5 4.9 1.5 Iris-versicolor 74 6.4 2.9 4.3 1.3 Iris-versicolor 75 6.6 3.0 4.4 1.4 Iris-versicolor 76 6.8 2.8 4.8 1.4 Iris-versicolor 77 6.7 3.0 5.0 1.7 Iris-versicolor 78 6.0 2.9 4.5 1.5 Iris-versicolor 79 5.7 2.6 3.5 1.0 Iris-versicolor 80 5.5 2.4 3.8 1.1 Iris-versicolor 81 5.5 2.4 3.7 1.0 Iris-versicolor 81 5.5 2.4 3.7 1.0 Iris-versicolor	66	5.6	3.0	4.5	1.5	Iris-versicolor
69 5.6 2.5 3.9 1.1 Iris-versicolor 70 5.9 3.2 4.8 1.8 Iris-versicolor 71 6.1 2.8 4.0 1.3 Iris-versicolor 72 6.3 2.5 4.9 1.5 Iris-versicolor 73 6.1 2.8 4.7 1.2 Iris-versicolor 74 6.4 2.9 4.3 1.3 Iris-versicolor 75 6.6 3.0 4.4 1.4 Iris-versicolor 76 6.8 2.8 4.8 1.4 Iris-versicolor 77 6.7 3.0 5.0 1.7 Iris-versicolor 78 6.0 2.9 4.5 1.5 Iris-versicolor 79 5.7 2.6 3.5 1.0 Iris-versicolor 81 5.5 2.4 3.8 1.1 Iris-versicolor 82 5.8 2.7 3.9 1.2 Iris-versicolor	67	5.8	2.7	4.1	1.0	Iris-versicolor
70 5.9 3.2 4.8 1.8 Iris-versicolor 71 6.1 2.8 4.0 1.3 Iris-versicolor 72 6.3 2.5 4.9 1.5 Iris-versicolor 73 6.1 2.8 4.7 1.2 Iris-versicolor 74 6.4 2.9 4.3 1.3 Iris-versicolor 75 6.6 3.0 4.4 1.4 Iris-versicolor 76 6.8 2.8 4.8 1.4 Iris-versicolor 78 6.0 2.9 4.5 1.5 Iris-versicolor 79 5.7 2.6 3.5 1.0 Iris-versicolor 80 5.5 2.4 3.7 1.0 Iris-versicolor 81 5.5 2.4 3.7 1.0 Iris-versicolor 82 5.8 2.7 3.9 1.2 Iris-versicolor 83 6.0 2.7 5.1 1.6 Iris-versicolor	68	6.2	2.2	4.5	1.5	Iris-versicolor
71 6.1 2.8 4.0 1.3 Iris-versicolor 72 6.3 2.5 4.9 1.5 Iris-versicolor 74 6.1 2.8 4.7 1.2 Iris-versicolor 75 6.6 3.0 4.4 1.4 Iris-versicolor 76 6.8 2.8 4.8 1.4 Iris-versicolor 77 6.7 3.0 5.0 1.7 Iris-versicolor 78 6.0 2.9 4.5 1.5 Iris-versicolor 80 5.5 2.4 3.8 1.1 Iris-versicolor 81 5.5 2.4 3.8 1.1 Iris-versicolor 81 5.5 2.4 3.7 1.0 Iris-versicolor 82 5.8 2.7 3.9 1.2 Iris-versicolor 83 6.0 2.7 5.1 1.6 Iris-versicolor 84 5.4 3.0 4.5 1.5 Iris-versicolor	69	5.6	2.5	3.9	1.1	Iris-versicolor
72 6.3 2.5 4.9 1.5 Iris-versicolor 73 6.1 2.8 4.7 1.2 Iris-versicolor 74 6.4 2.9 4.3 1.3 Iris-versicolor 75 6.6 3.0 4.4 1.4 Iris-versicolor 76 6.8 2.8 4.8 1.4 Iris-versicolor 77 6.7 3.0 5.0 1.7 Iris-versicolor 78 6.0 2.9 4.5 1.5 Iris-versicolor 79 5.7 2.6 3.5 1.0 Iris-versicolor 80 5.5 2.4 3.8 1.1 Iris-versicolor 81 5.5 2.4 3.7 1.0 Iris-versicolor 81 5.5 2.4 3.7 1.0 Iris-versicolor 82 5.8 2.7 3.9 1.2 Iris-versicolor 84 5.4 3.0 4.5 1.5 Iris-versicolor	70	5.9	3.2	4.8	1.8	Iris-versicolor
73 6.1 2.8 4.7 1.2 Iris-versicolor 74 6.4 2.9 4.3 1.3 Iris-versicolor 75 6.6 3.0 4.4 1.4 Iris-versicolor 76 6.8 2.8 4.8 1.4 Iris-versicolor 77 6.7 3.0 5.0 1.7 Iris-versicolor 78 6.0 2.9 4.5 1.5 Iris-versicolor 80 5.5 2.4 3.8 1.1 Iris-versicolor 81 5.5 2.4 3.8 1.1 Iris-versicolor 81 5.5 2.4 3.8 1.1 Iris-versicolor 82 5.8 2.7 3.9 1.2 Iris-versicolor 83 6.0 2.7 5.1 1.6 Iris-versicolor 84 5.4 3.0 4.5 1.5 Iris-versicolor 85 6.0 3.4 4.5 1.6 Iris-versicolor	71	6.1	2.8	4.0	1.3	Iris-versicolor
74 6.4 2.9 4.3 1.3 Iris-versicolor 75 6.6 3.0 4.4 1.4 Iris-versicolor 76 6.8 2.8 4.8 1.4 Iris-versicolor 77 6.7 3.0 5.0 1.7 Iris-versicolor 78 6.0 2.9 4.5 1.5 Iris-versicolor 79 5.7 2.6 3.5 1.0 Iris-versicolor 80 5.5 2.4 3.8 1.1 Iris-versicolor 81 5.5 2.4 3.7 1.0 Iris-versicolor 81 5.5 2.4 3.7 1.0 Iris-versicolor 82 5.8 2.7 3.9 1.2 Iris-versicolor 83 6.0 2.7 5.1 1.6 Iris-versicolor 84 5.4 3.0 4.5 1.5 Iris-versicolor 85 6.0 3.4 4.5 1.6 Iris-versicolor	72	6.3	2.5	4.9	1.5	Iris-versicolor
75 6.6 3.0 4.4 1.4 Iris-versicolor 76 6.8 2.8 4.8 1.4 Iris-versicolor 77 6.7 3.0 5.0 1.7 Iris-versicolor 78 6.0 2.9 4.5 1.5 Iris-versicolor 79 5.7 2.6 3.5 1.0 Iris-versicolor 80 5.5 2.4 3.8 1.1 Iris-versicolor 81 5.5 2.4 3.7 1.0 Iris-versicolor 82 5.8 2.7 3.9 1.2 Iris-versicolor 83 6.0 2.7 5.1 1.6 Iris-versicolor 84 5.4 3.0 4.5 1.5 Iris-versicolor 85 6.0 3.4 4.5 1.6 Iris-versicolor 87 6.3 2.3 4.4 1.3 Iris-versicolor 88 5.6 3.0 4.1 1.3 Iris-versicolor	73	6.1	2.8	4.7	1.2	Iris-versicolor
76 6.8 2.8 4.8 1.4 Iris-versicolor 77 6.7 3.0 5.0 1.7 Iris-versicolor 78 6.0 2.9 4.5 1.5 Iris-versicolor 79 5.7 2.6 3.5 1.0 Iris-versicolor 80 5.5 2.4 3.8 1.1 Iris-versicolor 81 5.5 2.4 3.7 1.0 Iris-versicolor 82 5.8 2.7 3.9 1.2 Iris-versicolor 83 6.0 2.7 5.1 1.6 Iris-versicolor 84 5.4 3.0 4.5 1.5 Iris-versicolor 85 6.0 3.4 4.5 1.6 Iris-versicolor 86 6.7 3.1 4.7 1.5 Iris-versicolor 89 5.5 2.5 4.0 1.3 Iris-versicolor 90 5.5 2.6 4.4 1.2 Iris-versicolor	74	6.4	2.9	4.3	1.3	Iris-versicolor
76 6.8 2.8 4.8 1.4 Iris-versicolor 77 6.7 3.0 5.0 1.7 Iris-versicolor 78 6.0 2.9 4.5 1.5 Iris-versicolor 79 5.7 2.6 3.5 1.0 Iris-versicolor 80 5.5 2.4 3.8 1.1 Iris-versicolor 81 5.5 2.4 3.7 1.0 Iris-versicolor 82 5.8 2.7 3.9 1.2 Iris-versicolor 83 6.0 2.7 5.1 1.6 Iris-versicolor 84 5.4 3.0 4.5 1.5 Iris-versicolor 85 6.0 3.4 4.5 1.6 Iris-versicolor 86 6.7 3.1 4.7 1.5 Iris-versicolor 89 5.5 2.5 4.0 1.3 Iris-versicolor 90 5.5 2.6 4.4 1.2 Iris-versicolor			3.0	4.4	1.4	Iris-versicolor
77 6.7 3.0 5.0 1.7 Iris-versicolor 78 6.0 2.9 4.5 1.5 Iris-versicolor 79 5.7 2.6 3.5 1.0 Iris-versicolor 80 5.5 2.4 3.8 1.1 Iris-versicolor 81 5.5 2.4 3.7 1.0 Iris-versicolor 82 5.8 2.7 3.9 1.2 Iris-versicolor 83 6.0 2.7 5.1 1.6 Iris-versicolor 84 5.4 3.0 4.5 1.5 Iris-versicolor 85 6.0 3.4 4.5 1.6 Iris-versicolor 86 6.7 3.1 4.7 1.5 Iris-versicolor 87 6.3 2.3 4.4 1.3 Iris-versicolor 89 5.5 2.5 4.0 1.3 Iris-versicolor 90 5.5 2.6 4.4 1.2 Iris-versicolor 91 6.1 3.0 4.6 1.4 Iris-versicolor <td< td=""><td></td><td></td><td></td><td></td><td>1.4</td><td>Iris-versicolor</td></td<>					1.4	Iris-versicolor
78 6.0 2.9 4.5 1.5 Iris-versicolor 79 5.7 2.6 3.5 1.0 Iris-versicolor 80 5.5 2.4 3.8 1.1 Iris-versicolor 81 5.5 2.4 3.7 1.0 Iris-versicolor 82 5.8 2.7 3.9 1.2 Iris-versicolor 83 6.0 2.7 5.1 1.6 Iris-versicolor 84 5.4 3.0 4.5 1.5 Iris-versicolor 85 6.0 3.4 4.5 1.6 Iris-versicolor 86 6.7 3.1 4.7 1.5 Iris-versicolor 87 6.3 2.3 4.4 1.3 Iris-versicolor 88 5.6 3.0 4.1 1.3 Iris-versicolor 89 5.5 2.5 4.0 1.3 Iris-versicolor 91 6.1 3.0 4.6 1.4 Iris-versicolor				5.0	1.7	Iris-versicolor
79 5.7 2.6 3.5 1.0 Iris-versicolor 80 5.5 2.4 3.8 1.1 Iris-versicolor 81 5.5 2.4 3.7 1.0 Iris-versicolor 82 5.8 2.7 3.9 1.2 Iris-versicolor 84 5.4 3.0 4.5 1.6 Iris-versicolor 85 6.0 3.4 4.5 1.6 Iris-versicolor 86 6.7 3.1 4.7 1.5 Iris-versicolor 87 6.3 2.3 4.4 1.3 Iris-versicolor 88 5.6 3.0 4.1 1.3 Iris-versicolor 89 5.5 2.5 4.0 1.3 Iris-versicolor 91 6.1 3.0 4.6 1.4 Iris-versicolor 92 5.8 2.6 4.0 1.2 Iris-versicolor 93 5.0 2.3 3.3 1.0 Iris-versicolor 94 5.6 2.7 4.2 1.3 Iris-versicolor <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
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82 5.8 2.7 3.9 1.2 Tris-versicolor 83 6.0 2.7 5.1 1.6 Tris-versicolor 84 5.4 3.0 4.5 1.5 Tris-versicolor 85 6.0 3.4 4.5 1.6 Tris-versicolor 86 6.7 3.1 4.7 1.5 Tris-versicolor 87 6.3 2.3 4.4 1.3 Tris-versicolor 88 5.6 3.0 4.1 1.3 Tris-versicolor 89 5.5 2.5 4.0 1.3 Tris-versicolor 90 5.5 2.6 4.4 1.2 Tris-versicolor 91 6.1 3.0 4.6 1.4 Tris-versicolor 92 5.8 2.6 4.0 1.2 Tris-versicolor 93 5.0 2.3 3.3 1.0 Tris-versicolor 94 5.6 2.7 4.2 1.3 Tris-versicolor 95 5.7 3.0 4.2 1.3 Tris-versicolor <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
83 6.0 2.7 5.1 1.6 Iris-versicolor 84 5.4 3.0 4.5 1.5 Iris-versicolor 85 6.0 3.4 4.5 1.6 Iris-versicolor 86 6.7 3.1 4.7 1.5 Iris-versicolor 87 6.3 2.3 4.4 1.3 Iris-versicolor 88 5.6 3.0 4.1 1.3 Iris-versicolor 89 5.5 2.5 4.0 1.3 Iris-versicolor 90 5.5 2.6 4.4 1.2 Iris-versicolor 91 6.1 3.0 4.6 1.4 Iris-versicolor 92 5.8 2.6 4.0 1.2 Iris-versicolor 93 5.0 2.3 3.3 1.0 Iris-versicolor 94 5.6 2.7 4.2 1.3 Iris-versicolor 95 5.7 3.0 4.2 1.3 Iris-versicolor 96 5.7 2.9 4.3 1.3 Iris-versicolor <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
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87 6.3 2.3 4.4 1.3 Iris-versicolor 88 5.6 3.0 4.1 1.3 Iris-versicolor 89 5.5 2.5 4.0 1.3 Iris-versicolor 90 5.5 2.6 4.4 1.2 Iris-versicolor 91 6.1 3.0 4.6 1.4 Iris-versicolor 92 5.8 2.6 4.0 1.2 Iris-versicolor 93 5.0 2.3 3.3 1.0 Iris-versicolor 94 5.6 2.7 4.2 1.3 Iris-versicolor 95 5.7 3.0 4.2 1.2 Iris-versicolor 96 5.7 2.9 4.2 1.3 Iris-versicolor 98 5.1 2.5 3.0 1.1 Iris-versicolor 98 5.1 2.5 3.0 1.1 Iris-versicolor 99 5.7 2.8 4.1 1.3 Iris-versicolor 99 5.7 2.8 4.1 1.3 Iris-versicolor <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
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89 5.5 2.5 4.0 1.3 Iris-versicolor 90 5.5 2.6 4.4 1.2 Iris-versicolor 91 6.1 3.0 4.6 1.4 Iris-versicolor 92 5.8 2.6 4.0 1.2 Iris-versicolor 93 5.0 2.3 3.3 1.0 Iris-versicolor 94 5.6 2.7 4.2 1.3 Iris-versicolor 95 5.7 3.0 4.2 1.2 Iris-versicolor 96 5.7 2.9 4.2 1.3 Iris-versicolor 97 6.2 2.9 4.3 1.3 Iris-versicolor 98 5.1 2.5 3.0 1.1 Iris-versicolor 99 5.7 2.8 4.1 1.3 Iris-versicolor 99 5.7 2.8 4.1 1.3 Iris-versicolor 98 5.1 2.5 3.0 1.1 Iris-versicolor 99 5.7 2.8 4.1 1.3 Iris-versicolor <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
90 5.5 2.6 4.4 1.2 Iris-versicolor 91 6.1 3.0 4.6 1.4 Iris-versicolor 92 5.8 2.6 4.0 1.2 Iris-versicolor 93 5.0 2.3 3.3 1.0 Iris-versicolor 94 5.6 2.7 4.2 1.3 Iris-versicolor 95 5.7 3.0 4.2 1.3 Iris-versicolor 96 5.7 2.9 4.2 1.3 Iris-versicolor 98 5.1 2.5 3.0 1.1 Iris-versicolor 99 5.7 2.8 4.1 1.3 Iris-versicolor 99 5.7 2.8 4.1 1.3 Iris-versicolor 99 5.7 2.8 4.1 1.3 Iris-versicolor 90 5.7 2.8 4.1 1.3 Iris-versicolor 90 5.7 2.8 4.1 1.3 Iris-versicolor 90 5.7 2.8 4.1 1.3 Iris-versicolor <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
91 6.1 3.0 4.6 1.4 Iris-versicolor 92 5.8 2.6 4.0 1.2 Iris-versicolor 93 5.0 2.3 3.3 1.0 Iris-versicolor 94 5.6 2.7 4.2 1.3 Iris-versicolor 95 5.7 3.0 4.2 1.3 Iris-versicolor 96 5.7 2.9 4.2 1.3 Iris-versicolor 97 6.2 2.9 4.3 1.3 Iris-versicolor 98 5.1 2.5 3.0 1.1 Iris-versicolor 99 5.7 2.8 4.1 1.3 Iris-versicolor sepal-length sepal-width petal-width petal-width class 100 6.3 3.3 6.0 2.5 Iris-virginica						
92 5.8 2.6 4.0 1.2 Iris-versicolor 93 5.0 2.3 3.3 1.0 Iris-versicolor 94 5.6 2.7 4.2 1.3 Iris-versicolor 95 5.7 3.0 4.2 1.2 Iris-versicolor 96 5.7 2.9 4.2 1.3 Iris-versicolor 97 6.2 2.9 4.3 1.3 Iris-versicolor 98 5.1 2.5 3.0 1.1 Iris-versicolor 99 5.7 2.8 4.1 1.3 Iris-versicolor sepal-length sepal-width petal-width petal-width class 100 6.3 3.3 6.0 2.5 Iris-virginica						
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94 5.6 2.7 4.2 1.3 Iris-versicolor 95 5.7 3.0 4.2 1.2 Iris-versicolor 96 5.7 2.9 4.2 1.3 Iris-versicolor 97 6.2 2.9 4.3 1.3 Iris-versicolor 98 5.1 2.5 3.0 1.1 Iris-versicolor 99 5.7 2.8 4.1 1.3 Iris-versicolor sepal-length sepal-width petal-width petal-width class 100 6.3 3.3 6.0 2.5 Iris-virginica						
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100 6.3 3.3 6.0 2.5 Iris-virginica	99					
9	40-		=		-	
101 5.8 2.7 5.1 1.9 Iris-virginica						_
	101	5.8	2.7	5.1	1.9	Iris-virginica

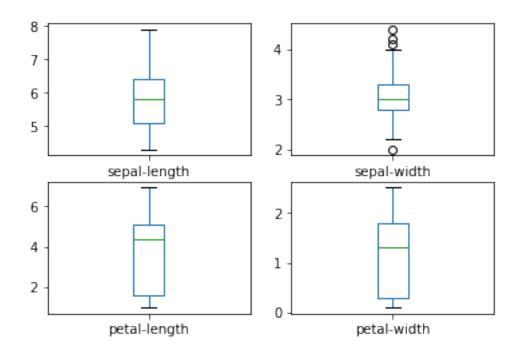
102	7.1	3.0	5.9	2.1	Iris-virginica
103	6.3	2.9	5.6	1.8	Iris-virginica
104	6.5	3.0	5.8	2.2	Iris-virginica
105	7.6	3.0	6.6	2.1	Iris-virginica
106	4.9	2.5	4.5	1.7	Iris-virginica
107	7.3	2.9	6.3	1.8	Iris-virginica
108	6.7	2.5	5.8	1.8	Iris-virginica
109	7.2	3.6	6.1	2.5	Iris-virginica
110	6.5	3.2	5.1	2.0	Iris-virginica
111	6.4	2.7	5.3	1.9	Iris-virginica
112					•
	6.8	3.0	5.5	2.1	Iris-virginica
113	5.7	2.5	5.0	2.0	Iris-virginica
114	5.8	2.8	5.1	2.4	Iris-virginica
115	6.4	3.2	5.3	2.3	Iris-virginica
116	6.5	3.0	5.5	1.8	Iris-virginica
117	7.7	3.8	6.7	2.2	Iris-virginica
118	7.7	2.6	6.9	2.3	Iris-virginica
119	6.0	2.2	5.0	1.5	Iris-virginica
120	6.9	3.2	5.7	2.3	Iris-virginica
121	5.6	2.8	4.9	2.0	Iris-virginica
122	7.7	2.8	6.7	2.0	Iris-virginica
123	6.3	2.7	4.9	1.8	Iris-virginica
124	6.7	3.3	5.7	2.1	Iris-virginica
125	7.2	3.2	6.0	1.8	Iris-virginica
126	6.2	2.8	4.8	1.8	Iris-virginica
127	6.1	3.0	4.9	1.8	Iris-virginica
128	6.4	2.8	5.6	2.1	Iris-virginica
129	7.2	3.0	5.8	1.6	Iris-virginica
130	7.4	2.8	6.1	1.9	Iris-virginica
131	7.9	3.8	6.4	2.0	Iris-virginica
132	6.4	2.8	5.6	2.2	Iris-virginica
133	6.3	2.8	5.1	1.5	Iris-virginica
134	6.1	2.6	5.6	1.4	_
					Iris-virginica
135	7.7	3.0	6.1	2.3	Iris-virginica
136	6.3	3.4	5.6	2.4	Iris-virginica
137	6.4	3.1	5.5	1.8	Iris-virginica
138	6.0	3.0	4.8	1.8	Iris-virginica
139	6.9	3.1	5.4	2.1	Iris-virginica
140	6.7	3.1	5.6	2.4	Iris-virginica
141	6.9	3.1	5.1	2.3	Iris-virginica
142	5.8	2.7	5.1	1.9	Iris-virginica
143	6.8	3.2	5.9	2.3	Iris-virginica
144	6.7	3.3	5.7	2.5	Iris-virginica
145	6.7	3.0	5.2	2.3	Iris-virginica
146	6.3	2.5	5.0	1.9	Iris-virginica
147	6.5	3.0	5.2	2.0	Iris-virginica
148	6.2	3.4	5.4	2.3	Iris-virginica
149	5.9	3.0	5.1	1.8	Iris-virginica
					O

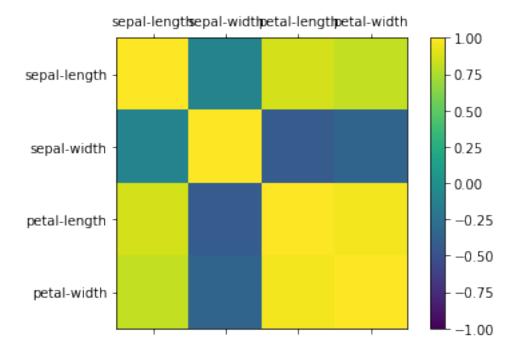
1.2 Task 2: Data Visualization

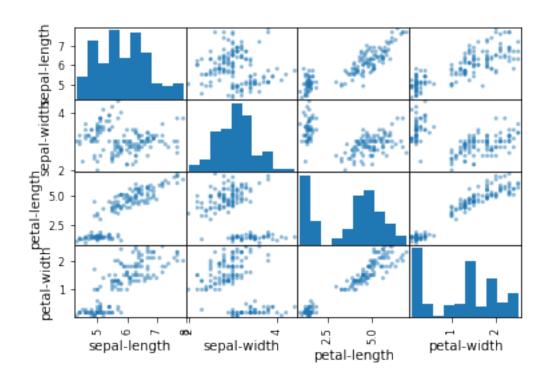
- Univariate plots, visualisation of each individual feature for better understand.
- Multivariate plots, visualisation relationships between attributes.











1.3 Task 3: Validation set

We will split the loaded dataset into two, 80% of which we will use to train our models and 20% that we will hold back as a validation dataset.

Out [111] :	sepal-length	sepal-width	petal-length	petal-width	class
ouctiii.	pehar-rengun	sebar-widin	becar-rengen	pecar-width	Class
126	6.2	2.8	4.8	1.8	Iris-virginica
30	4.8	3.1	1.6	0.2	Iris-setosa
105	7.6	3.0	6.6	2.1	Iris-virginica
134	6.1	2.6	5.6	1.4	Iris-virginica
16	5.4	3.9	1.3	0.4	Iris-setosa
129	7.2	3.0	5.8	1.6	Iris-virginica
133	6.3	2.8	5.1	1.5	Iris-virginica
115	6.4	3.2	5.3	2.3	Iris-virginica
110	6.5	3.2	5.1	2.0	Iris-virginica
85	6.0	3.4	4.5	1.6	Iris-versicolor
128	6.4	2.8	5.6	2.1	Iris-virginica

Iris-virginica	2.3	5.9	3.2	6.8	143
Iris-setosa	0.2	1.5	3.4	5.0	7
Iris-virginica	1.9	5.0	2.5	6.3	146
Iris-virginica	2.4	5.1	2.8	5.8	114
Iris-versicolor	1.4	4.7	3.2	7.0	50
Iris-versicolor	1.1	3.0	2.5	5.1	98
Iris-virginica	2.1	5.5	3.0	6.8	112
Iris-versicolor	1.1	3.9	2.5	5.6	69
Iris-setosa	0.2	1.4	4.2	5.5	33
Iris-setosa	0.3	1.7	3.8	5.7	18
Iris-versicolor	1.3	4.0	2.5	5.5	89
Iris-setosa	0.3	1.3	3.5	5.0	40
Iris-virginica	2.1	5.7	3.3	6.7	124
Iris-virginica	2.5	5.7	3.3	6.7	144
Iris-setosa	0.2	1.3	3.2	4.7	2
Iris-setosa	0.2	1.0	3.6	4.6	22
Iris-setosa	0.3	1.4	3.5	5.1	17
Iris-virginica	2.0	5.2	3.0	6.5	147
Iris-setosa	0.1	1.5	3.1	4.9	37