ASSIGNMENT-5

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Given iris dataset (https://archive.ics.uci.edu/ml/datasets/iris) with 3 classes and 4 features such as sepals/petals, Length, width etc. for each flower in the dataset. There are 50 instances per class in the dataset. Use Bayes Classifier as your base classifier model. Use 60% samples for training and 40% samples for testing.

- 1. Perform feature selection on this dataset using forward search.
- 2. As you select features, until 2 features, plot your right and incorrect classification instances for all classes.

All instances of each class from selected 2 features : PetalLength & SepalWidth Iris-setosa Iris-versicolor Iris-virginica

All instances of each class from selected 2 features : PetalLength & SepalWidth Iris-setosa Iris-versicolor Iris-virginica

SepalWidth Iris-versicolor Iris-virginica

PetalLength PetalLength PetalLength

PetalLength

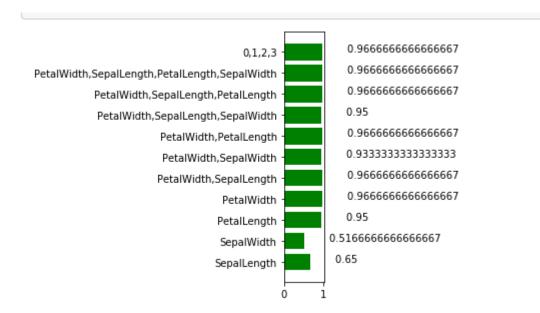
5.0

PetalLength

PetalLength

3. For all the sets of features selected, plot the accuracies to show the best subset of selected features.

2.5



Inference:

The code can be found in the following link.

https://github.com/aasthajain12/ITIT-4103-2021

PetalLength