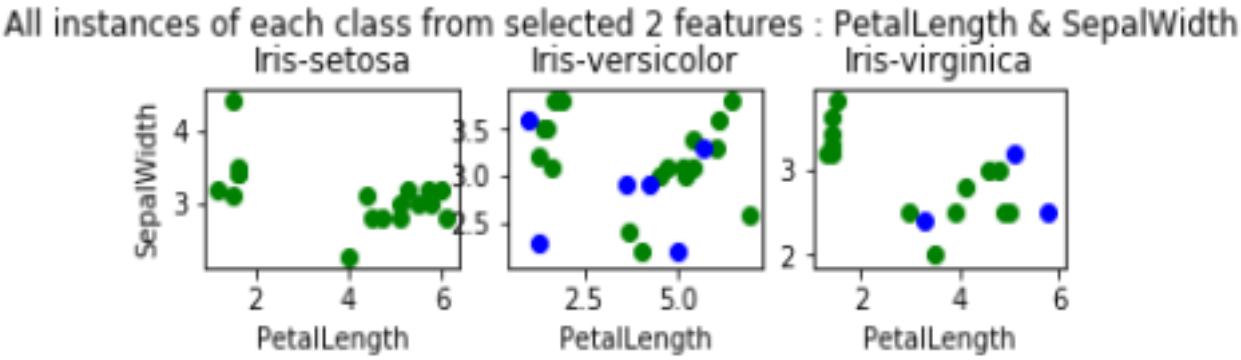
ASSIGNMENT-5

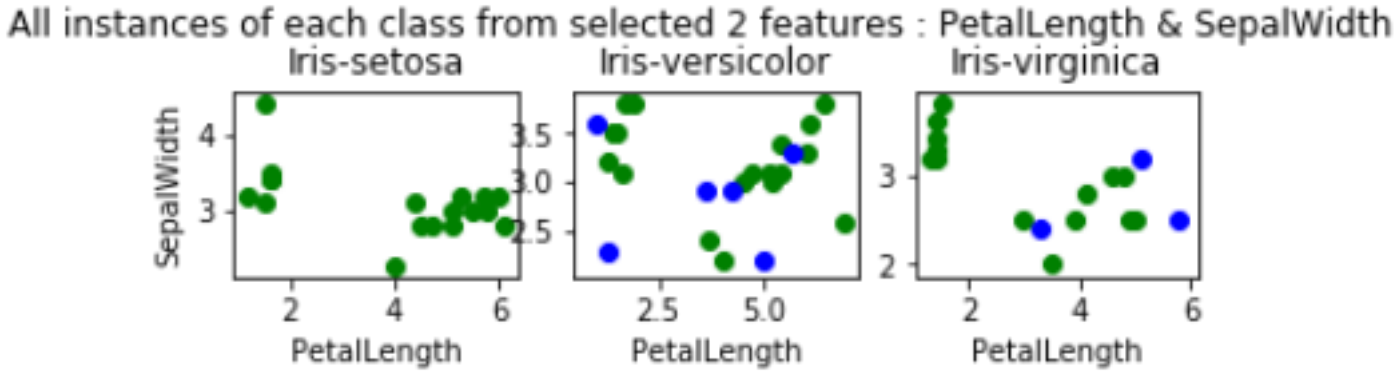
Aastha jain

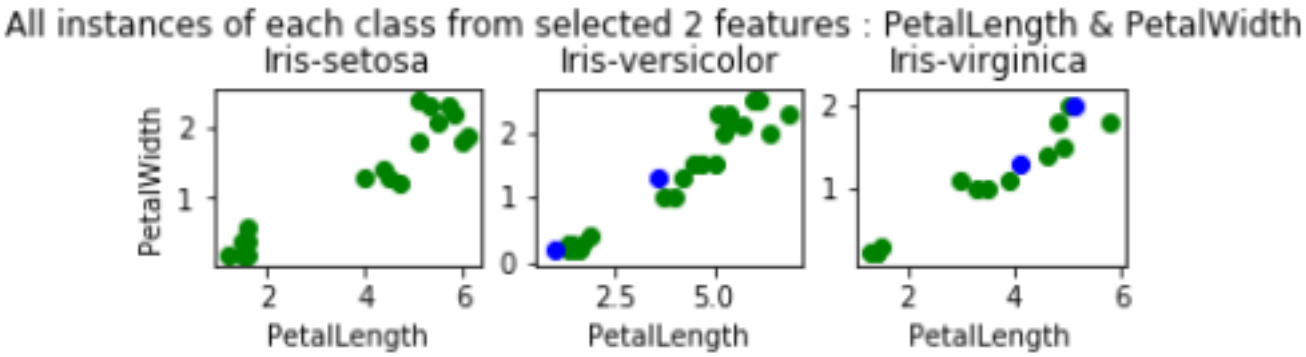
2018IMT-004

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.

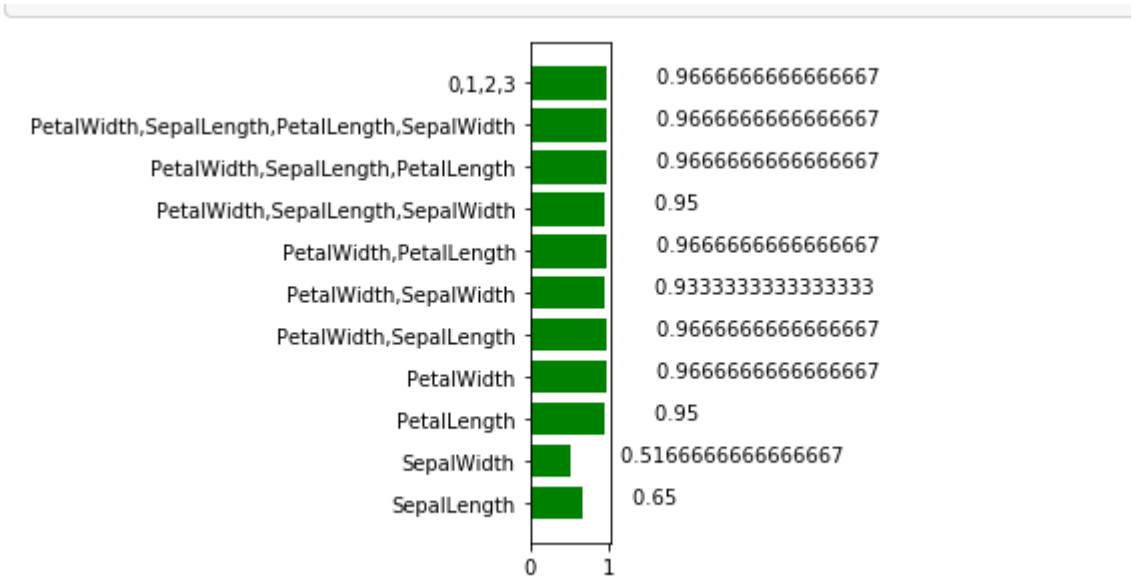
1. **Perform feature selection on this dataset using forward search.**
2. **As you select features, until 2 features, plot your right and incorrect classification instances for all classes.**







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



Inference:

The code can be found in the following link.

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