Programming Assignment 3 -Abhay Pratap Singh

Dataset selected: Iris Plants Database

Number of Classes: 3

Number of Instances : 50 per class

Attribute Information: 1. sepal length in cm

sepal width in cm
 petal length in cm
 petal width in cm

5. class:

-- Iris Setosa

-- Iris Versicolour

-- Iris Virginica

Class Distribution: 33.3% for each of 3 classes

The data is divided into 5 groups
 Group of 4 is taken as training data and remaining group is for testing
 Confusion Matrix and Accuracy is computed for all the 5 cases
 Average Confusion Matrix and Accuracy is given below

Confusion Matrix	Predicted as class	Predicted as class 2	Predicted as class
Belongs to class 1	10	0	0
Belongs to class 2	0	9.6	0.4
Belongs to class 3	0	0.2	9.8

Accuracy = 98.0 %

b) Class Distribution is equal for all the classes hence classification with posterior also yields the same result as likelihood (shown in part a)