

CLASSIFICATION ASSIGNMENT

1. RANDOM FOREST

1.What is the percentage of correct classification of both inputs to the total input of test set ?

Answer : 0.91

2.What is the percentage of correct classification of 0 to the total input in the test set ?

Answer :0.93

3.What is the percentage of correct classification of 1 to the total input in the test set ?

Answer :0.88

4.What is the percentage of correct classification of 0 to sum of correctly classified as 0 and wrongly classified as 0 in the test set ?

Answer :0.93

5.What is the percentage of correct classification of 1 to sum of correctly classified as 1 and wrongly classified as 1 in the test set ?

Answer :0.88

6.What is the overall performance of 0 ?

Answer:0.93

7.What is the overall performance of 1 ?

Answer:0.88

8.What is the average performance of precision ?

Answer :0.90

9.What is the average performance of Recall ?

Answer:0.90

10.What is the average performance of F1-measure ?

Answer:0.90

11.What is the sum of product of proportion rate (weight)of each class(Precision) ?

Answer:0.91

12.What is the sum of product of proportion rate (weight)of each class(Recall) ?

Answer:0.91

13.What is the sum of product of proportion rate (weight)of each class(F1-measure) ?

Answer:0.91

2.DECISION TREE

1.What is the percentage of correct classification of both inputs to the total input of test set ?

Answer : 0.87

2.What is the percentage of correct classification of 0 to the total input in the test set ?

Answer :0.89

3.What is the percentage of correct classification of 1 to the total input in the test set ?

Answer :0.84

4.What is the percentage of correct classification of 0 to sum of correctly classified as 0 and wrongly classified as 0 in the test set ?

Answer :0.90

5.What is the percentage of correct classification of 1 to sum of correctly classified as 1 and wrongly classified as 1 in the test set ?

Answer :0.82

6.What is the overall performance of 0 ?

Answer:0.90

7.What is the overall performance of 1 ?

Answer:0.83

8.What is the average performance of precision ?

Answer :0.86

9.What is the average performance of Recall ?

Answer:0.87

10.What is the average performance of F1-measure ?

Answer:0.86

11.What is the sum of product of proportion rate (weight)of each class(Precision) ?

Answer:0.87

12.What is the sum of product of proportion rate (weight)of each class(Recall) ?

Answer:0.87

13.What is the sum of product of proportion rate (weight)of each class(F1-measure) ?

Answer:0.87

3.SUPPORT VECTOR MACHINE :

1.What is the percentage of correct classification of both inputs to the total input of test set ?

Answer : 0.68

2.What is the percentage of correct classification of 0 to the total input in the test set ?

Answer :0.99

3.What is the percentage of correct classification of 1 to the total input in the test set ?

Answer :0.14

4.What is the percentage of correct classification of 0 to sum of correctly classified as 0 and wrongly classified as 0 in the test set ?

Answer :0.67

5.What is the percentage of correct classification of 1 to sum of correctly classified as 1 and wrongly classified as 1 in the test set ?

Answer :0.88

6.What is the overall performance of 0 ?

Answer:0.80

7.What is the overall performance of 1 ?

Answer:0.25

8.What is the average performance of precision ?

Answer :0.77

9.What is the average performance of Recall ?

Answer:0.57

10.What is the average performance of F1-measure ?

Answer:0.52

11.What is the sum of product of proportion rate (weight)of each class(Precision) ?

Answer:0.74

12.What is the sum of product of proportion rate (weight)of each class(Recall) ?

Answer:0.68

13. What is the sum of product of proportion rate (weight) of each class (F1-measure)?

Answer: 0.51

Random Forest Classification gives best Accuracy : 0.91