

# CLASSIFICATION ASSIGNMENT

## Random Forest Classifier Questions:

1) What is the percentage of correct classification of both(Purchased & Not Purchased) to the total input of the test set?

→ 0.90

2) What is the percentage of correct classification of(Purchased) to the total input of (Purchased) in the test set?

→ 0.88

3) What is the percentage of correct classification of(Not Purchased) to the total input of (Not Purchased) in the test set?

→ 0.91

4) What is the percentage of correct classification of (Purchased) to sum of correctly Classified as (Purchased) and wrongly classified as (Purchased) in the test set?

→ 0.84

5) What is the percentage of correct classification of (Not Purchased) to sum of correctly Classified as (Not Purchased) and wrongly classified as (Not Purchased) in the test set?

→ 0.94

6) What is the overall performance of Purchased?

→ 0.86

7) What is the overall performance of Not Purchased?

→ 0.92

8) What is the average performance of Precision (correctly and wrongly classified)?

→ 0.89

9) What is the average performance of Recall (correctly classified)?

→ 0.89

10) What is the average performance of F1-Measure(overall performance)?

→ 0.90

**11) What is the sum of product of proportion rate(Weight) of each class?**

→ 1.00

**12) What is the sum of product of proportion rate(Weight) of each class?**

→ 1.00

**13) What is the sum of product of proportion rate(Weight) of each class?**

→ 1.00

## **Decision Tree Classifier Questions:**

**1) What is the percentage of correct classification of both(Purchased & Not Purchased) to the total input of the test set?**

→ 1.00

**2) What is the percentage of correct classification of(Purchased) to the total input of (Purchased) in the test set?**

→ 1.00

**3) What is the percentage of correct classification of(Not Purchased) to the total input of (Not Purchased) in the test set?**

→ 1.00

**4) What is the percentage of correct classification of (Purchased) to sum of correctly Classified as (Purchased) and wrongly classified as (Purchased) in the test set?**

→ 1.00

**5) What is the percentage of correct classification of (Not Purchased) to sum of correctly Classified as (Not Purchased) and wrongly classified as (Not Purchased) in the test set?**

→ 1.00

**6) What is the overall performance of Purchased?**

→ 1.00

**7) What is the overall performance of Not Purchased?**

→ 1.00

**8) What is the average performance of Precision (correctly and wrongly classified)?**

→ 1.00

**9) What is the average performance of Recall (correctly classified)?**

**→ 1.00**

**10) What is the average performance of F1-Measure(overall performance)?**

**→ 1.00**

**11) What is the sum of product of proportion rate(Weight) of each class?**

**→ 1.00**

**12) What is the sum of product of proportion rate(Weight) of each class?**

**→ 1.00**

**13) What is the sum of product of proportion rate(Weight) of each class?**

**→ 1.00**