

Decision Tree Classification

1. What is the percentage of correct classification of both purchased and non-purchased? Accuracy: 91%
2. What is the percentage of non- purchased was identified correctly from the total input of non – purchased? Recall – 90%
3. What is the percentage of purchased was identified correctly from the total input on purchased? Recall – 93%
4. What proportion of actual purchased was identified correctly from the sum of correctly classified purchased and wrongly classified purchased? Precision – 83%
5. What proportion of actual not purchased was identified correctly from the sum of correctly classified non- purchased and wrongly classified non- purchased? Precision :96%
6. What is the overall performance of Purchased? F1 Measure – 81%
7. What is the overall performance of non-purchased? F1 Measure -93%

Random Forest Classification

1. What is the overall performance of the model? Accuracy – 89%
2. What proportion of non-purchased was identified correctly from the total input of non-purchased? Recall – 91%
3. What proportion of purchased was identified correctly from the total input of purchased? Recall – 85%
4. What percentage of purchased was identified correctly from the sum of correctly classified purchased and wrongly classified purchased? Precision –83%
5. What percentage of non-purchased was identified correctly from the sum of correctly classified non-purchased and wrongly classified non-purchased? Precision – 92%
6. What is the overall proportion on Purchased? F1 Measure – 84%
7. What is the overall proportion on Non-Purchased? F1 Measure – 92%

SVM Classification

1. What is the percentage of correct classification of both purchased and non-purchased? Accuracy: 78%
2. What is the percentage of non- purchased was identified correctly from the total input of non – purchased? Recall – 96%
3. What is the percentage of purchased was identified correctly from the total input on purchased? Recall – 47%
4. What proportion of actual purchased was identified correctly from the sum of correctly classified purchased and wrongly classified purchased? Precision – 88%
5. What proportion of actual not purchased was identified correctly from the sum of correctly classified non- purchased and wrongly classified non- purchased? Precision :76%
6. What is the overall performance of Purchased? F1 Measure – 61%
7. What is the overall performance of non-purchased? F1 Measure -85%