

# Random Forest

## Random Forest Classification

1. What is the overall performance of the model in Random forest  
**Accuracy** : 0.90
2. What is the correct(actual) classification of not purchased?  
**Recall** : 0.92
3. What is the correct classification of truly not purchased?  
**Precision** : 0.93
4. What is the overall performance of not purchased?  
**F1-Measure** : 0.92
5. What is the correct(actual) classification of purchased?  
**Recall** : 0.88
6. What is the correct classification of truly purchased?  
**Precision** : 0.86
7. What is the overall performance of purchased?  
**F1-Measure** : 0.87
8. What is the weighted average for Precision? – 0.90
9. What is the weighted average for Recall? – 0.90
10. What is the weighted average for F1-Measure? – 0.90

# Decision Tree

## Decision Tree Classification

1. What is the overall performance of the model in Decision Tree  
**Accuracy** : 0.87
2. What is the correct(actual) classification of not purchased?  
**Recall** : 0.89
3. What is the correct classification of truly not purchased?  
**Precision** : 0.90
4. What is the overall performance of not purchased?  
**F1-Measure** : 0.90
5. What is the correct(actual) classification of purchased?  
**Recall** : 0.84
6. What is the correct classification of truly purchased?  
**Precision** : 0.82
7. What is the overall performance of purchased?  
**F1-Measure** : 0.83
8. What is the weighted average for Precision? – 0.87
9. What is the weighted average for Recall? – 0.87
10. What is the weighted average for F1-Measure? – 0.87

# Support Vector Machine

## Support Vector Machine Classification

1. What is the overall performance of the model in Decision Tree  
**Accuracy : 0.78**
2. What is the correct(actual) classification of not purchased?  
**Recall : 0.96**
3. What is the correct classification of truly not purchased?  
**Precision : 0.76**
4. What is the overall performance of not purchased?  
**F1-Measure : 0.85**
5. What is the correct(actual) classification of purchased?  
**Recall : 0.47**
6. What is the correct classification of truly purchased?  
**Precision : 0.88**
7. What is the overall performance of purchased?  
**F1-Measure : 0.61**
8. What is the weighted average for Precision? – **0.81**
9. What is the weighted average for Recall? – **0.78**
10. What is the weighted average for F1-Measure? – **0.76**

Of all the three **Random Forest** has Good Performance with **Accuracy – 0.90**