# **Evaluation Metrics of the Confusion Matrix for the Following Algorithms**

# **Random Forest -Classification Report**

	precision	Recall	F1-score	Support
0	0.93	0.92	0.92	85
1	0.86	0.88	0.87	49
accuracy			0.90	134
Macro Avg	0.89	0.90	0.90	134
Weighted	0.90	0.90	0.90	134
Avg				

## **Questions:**

- 1. What is the **overall performance** of the model?
- 2. What is the percentage of correct classification of each respective class?
- 3. What is the percentage of **correctly and wrongly classified individuals** of each class?
- 4. How will you **validate your model** if the recall value is low and the precision value is high?
- 5. What is the Average precision performance?
- 6. What is the Average recall performance?
- 7. What is the Average F1 measure performance?
- 8. What is the weight or proportion of each participating class?

## **Decision Tree – Classification Report**

	precision	Recall	F1-score	Support
0	0.90	0.89	0.90	85
1	0.82	0.84	0.83	49
accuracy			0.87	134
Macro Avg	0.86	0.87	0.86	134
Weighted	0.87	0.87	0.87	134
Avg				

#### **Questions:**

- 1. What is the **overall performance** of the model?
- 2. What is the percentage of correct classification of each respective class?
- 3. What is the percentage of **correctly and wrongly classified individuals** of each class?
- 4. How will you **validate your model** if the recall value is low and the precision value is high?
- 5. What is the Average precision performance?
- 6. What is the **Average recall performance?**
- 7. What is the Average F1 measure performance?
- 8. What is the **weight or proportion** of each participating class?

## **Support Vector Machine – Classification Report**

	precision	Recall	F1-score	Support
0	0.76	0.96	0.85	85
1	0.88	0.47	0.61	49
accuracy			0.78	134
Macro Avg	0.82	0.72	0.73	134
Weighted	0.81	0.78	0.76	134
Avg				

#### **Questions:**

- 1. What is the **overall performance** of the model?
- 2. What is the percentage of correct classification of each respective class?
- 3. What is the percentage of **correctly and wrongly classified individuals** of each class?
- 4. How will you **validate your model** if the recall value is low and the precision value is high?
- 5. What is the Average precision performance?
- 6. What is the Average recall performance?
- 7. What is the Average F1 measure performance?
- 8. What is the weight or proportion of each participating class?