**RANDOM FOREST RESULTS**

**CONFIGURATION 1 :**

**TRAIN** : **70%**

**TEST** **30%**

**CONFUSION MATRIX :**

**[2942, 0]**

**[6, 2739]**

**RR\_model.best\_params:**

**{'max\_features': 'auto', 'min\_samples\_leaf': 10, 'n\_estimators': 70}**

**AUC\_ROC**

**precision** **recall** **f1-score** **support**

**0** 1.00 1.00 1.00 2942

**1** 1.00 1.00 1.00 2745

**avg / total** 1.00 1.00 1.00 5687



**CONFIGURATION 2 :**

**TRAIN** : **60%**

**TEST** **40%**

**CONFUSION MATRIX :**

**[2514, 0]**

**[21, 2340]**

**RR\_model.best\_params**

**{'max\_features': 'sqrt', 'min\_samples\_leaf': 10, 'n\_estimators': 10}**

**AUC\_ROC**

**precision recall f1-score support**

**0** 0.99 1.00 1.00 2514

**1** 1.00 0.99 1.00 2361

**avg / total** 1.00 1.00 1.00 4875



**CONFIGURATION 3 :**

**TRAIN** : **50%**

**TEST :**  **50%**

**CONFUSION MATRIX :**

**[2084, 0]**

**[ 5, 1973]**

**RR\_model.best\_params**

**{'max\_features': 'sqrt', 'min\_samples\_leaf': 10, 'n\_estimators': 90}**

**AUC\_ROC**

**precision recall f1-score support**

**0** 1.00 1.00 1.00 2084

**1** 1.00 1.00 1.00 1978

**avg / total** 1.00 1.00 1.00 4062

