

# **ASSIGNMENT OF CLASSIFICATION**

## **DECISION TREE CLASSIFIER**

The f1\_macro value for best parameter(): {'criterion': 'entropy', 'max\_features': 'log2', 'max\_leaf\_nodes': 8, 'splitter': 'best'} 0.975609756097561

## **KNN CLASSIFIER**

The R2 value for best parameter(): {'algorithm': 'auto', 'n\_neighbors': 4, 'weights': 'distance'} 0.9813664596273292

## **LOGISTIC REGRESSION**

The f1\_macro value for best parameter(): {'multi\_class': 'multinomial', 'penalty': 'l2', 'solver': 'lbfgs'} 0.9938650306748467

## **NAÏVE BAYES CLASSIFIER**

The f1\_macro value for best parameter(): 0.9813664596273292

## **SUPPORT VECTOR**

The f1\_macro value best parameter(): {'C': 10, 'degree': 5, 'gamma': 'scale', 'kernel': 'sigmoid'} 0.9924677677874477