Decision tree based classifier model building using ID3 algorithm

Reference: Student Alcohol Consumption

- a) Built a classifier model based on ID3 algorithm. You should divide the data set randomly in 2:1 ratio using Bootstrap sampling method and then learn the model using the training data set.
- b) Verify the classifier's performance on the test set. Use *k*-fold cross validation with different values of k. Decide the best k-value.
- c) Show the performance measure in terms of Accuracy, F1-score, Precision, Recall and Confusion matrix.