

Department of Computer Science & Engineering

Final Year B. Tech. (CSE) – I : 2021-22

4CS462 : PE2 - Data Mining Lab

Assignment No. 4

Use / extend the data analysis tool (menu driven GUI) developed in Assignment No. 2 to perform the following classification task :

1. Implement the decision tree classifier using the following attribute selection measures and graphically show/visualize the tree:
 - a. Information Gain
 - b. Gain Ratio
 - c. Gini Index
2. Tabulate the results in confusion matrix and evaluate the performance of above classifier using following metrics :
 - a) Recognition rate
 - b) Misclassification rate
 - c) Sensitivity
 - d) Specificity
 - e) Precision & Recall
3. Use the following categorical data sets from UCI machine learning repository :
 - a. Balance Scale data set
 - b. Car evaluation data set
 - c. Breast-cancer data set

Deadline : 26/09/2021

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