DWDM LAB INTERNAL IMPORTANT QUESTIONS

Set-1

1. a) Demonstrate plotting multiple ROC curves in the same plot window by using j48 and Random forest tree
   b) Visualize the datasets as Histogram using matplotlib in python

2. a) Design multi-dimensional data models namely Star, Snowflake and Fact Constellation schemas for any one enterprise
   b) Set up the knowledge flow to load an ARFF (batch mode) and perform a cross validation using J48 algorithm

3. a) Demonstrate ZeroR technique on Iris dataset and share your observations
   b) Visualize the datasets as Bar chart using matplotlib in python

Set-2

4. a) Explore various options available in Weka for preprocessing data and apply Unsupervised filters like Discretization, Resample filter, etc. on each dataset
   b) Write a java program to prepare a simulated data set with unique instances.

5. a) Load each dataset into Weka and perform k-Nearest Neighbour classification.
   b) Visualize the datasets as Box plot using matplotlib in python

6. a) Load weather. nominal into Weka and run Apriori Algorithm
   b) Write a program to calculate chi-square value using Python.

Set-3

7. a) Load each dataset into Weka and run J48 classification algorithm
   b) Write a program to compute dissimilarity matrix using Python

8. a) Load each dataset into Weka and perform Naïve-bayes classification
   b) Write a program of cluster analysis using simple k-means algorithm Python programming language

9. a) Develop a knowledge flow layout for finding strong association rules by using Apriori, FP Growth algorithms
   b) Visualize the datasets as linear graph using matplotlib in python

Set-4

10. a) Load each dataset into Weka and run simple k-means clustering algorithm
    b) Write a program of Naive Bayesian classification using Python programming language

11. a) Load each dataset into Weka and run 1d3 classification algorithm.
    b) Visualize the datasets as Pie chart using matplotlib in python

12. a) Explain Downloading and installation of WEKA data mining toolkit. Understand the features of WEKA toolkit such as Explorer, Knowledge Flow interface, Experimenter, command-line interface.
    b) Extract if-then rules from the decision tree generated by the classifier, Observe the confusion matrix.

ALL THE STUDENTS ARE INSTRUCTED TO PREPARE THE ASSIGNED SET QUESTIONS FOR LAB INTERNAL EXAM

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