

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

III Yr II SEM

DATA WAREHOUSING AND DATA MINING LAB

Week- 1 & Week - 2:

1. Introduction to data mining using Weka/Python/R-Tool.
2. Experiment the following in Weka Tool.
3. Demonstrate how to create .Arff file and perform Data Preprocessing Techniques

Week - 3:

1. Demonstrate the following data preprocessing tasks using python libraries
 - Loading the dataset
 - Dealing with missing data

Week- 4:

1. Demonstrate the following data preprocessing tasks using python libraries
 - Dealing with categorical data
 - Scaling the features.
 - Splitting dataset into Training and Testing Sets

Week -5:

1. Generate frequent item sets using Apriori Algorithm in python and also generate association rules for any market basket data.

Week6:

1. Generate frequent item sets using FP-Growth Algorithm in python and also generate association rules for any market basket data.

Week - 7 & Week -8:

1. Build the following classification Algorithms in Python :
 - Decision Tree
 - Naïve Bayes
 - K-NN

Week -9:

1. Build a model using linear regression algorithm on any dataset using python

Week -10:

1. Demonstrate the following Similarity and Dissimilarity Measures using python
 - Euclidean Distance
 - Manhattan Distance
 - Minkowski Distance

Week - 11:

1. Apply the following clustering algorithms in python:
 - K-Means
 - Hierarchical
 - DBSCAN

Week -12:

1. Analyze German Credit Data Assessment using various Data mining Techniques.