III Year II Semester

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Code: 17CS612

DATA WAREHOUSING AND MINING LAB

OBJECTIVES:

1. Practical exposure on implementation of well known data mining tasks.
2. Exposure to real life data sets for analysis and prediction.
3. Learning performance evaluation of data mining algorithms in a supervised and an unsupervised setting.
4. Handling a small data mining project for a given practical domain.

System/Software Requirements:
Intel based desktop PC
WEKA TOOL

1. Demonstration of preprocessing on dataset student.arff
2. Demonstration of preprocessing on dataset labor.arff
3. Demonstration of Association rule process on dataset contactlenses.arff using apriori algorithm
4. Demonstration of Association rule process on dataset test.arff using apriori algorithm
5. Demonstration of classification rule process on dataset student.arff using j48 algorithm
6. Demonstration of classification rule process on dataset employee.arff using j48 algorithm
7. Demonstration of classification rule process on dataset employee. arff using id3 algorithm
8. Demonstration of classification rule process on dataset employee. arff using naïve bayes algorithm
9. Demonstration of clustering rule process on dataset iris. arff using simple k-means
10. Demonstration of clustering rule process on dataset student. arff using simple k- means.

Project:

1. Data mining for weather prediction and climate change studies.
2. Knowledge /information extraction from decision trees using data mining.
3. Mining of government data for getting valuable information. Sensex data
4. Mining of excess sheet data
5. Mining of customer behaviour of any retail shop.

6. Crime/fraud detection using data mining.
7. Market basket analysis (Apriori algorithm) for mining association rule

OUTCOMES:

- The data mining process and important issues around data cleaning, pre-processing and integration.
- The principle algorithms and techniques used in data mining, such as clustering, Association mining, classification and prediction.