DATA MINING AND DATA WAREHOUSING LAB

Course Code:13CS1105

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Course Educational Objectives:

❖ To introduce Weka software.

❖ To make students implement data mining algorithms in Java.

❖ To introduce text mining techniques to students.

❖ To build data cube either by using open source tools or using SQL.

❖ To design, develop and implement data warehouse for simple applications.

❖ To understand and study data warehouse administration support concepts by considering any one commercial data warehouse.

❖ Learn Weka Software.

❖ Mplementations of various data mining algorithms.

❖ OLAP Operations and Data warehouse design and development case study.

LIST OF EXPERIMENTS:

1. Introduction to Weka : All the features of Weka software will be explored in this assignment.(2 weeks)

2. Implementation of Apriori algorithm (2 weeks)

3. Implementation of FP tree algorithm (2 weeks)

4. Implementation of Naïve Bayesian classification algorithm(1 week)

5. Implementation of K-means clustering algorithm (1 week)

6. Introduction to text mining : Text mining preprocessing tasks such as stop word removal, POS tagging, Introduction to Wordnet, Indexing,Classification of text using Naïve bayes etc.(3weeks)

7. OLAP operators, building of data cube, simulation of data cube using powerful functions of SQL (1 week).

8. Data warehouse design and development-case study (1week).

9. Data warehouse administration support-partitioning in SQL, parllel execution, materialized views, and demonstration using a data base (1 week).