## CAP447: DATA WAREHOUSING AND DATA MINING-LABORATORY

**Course Outcomes:** Through this course students should be able to

CO1:: Observe the various methods to extract knowledge using data mining techniques

CO2:: Evaluate current trends in data mining such as web mining, spatial-temporal mining.

CO3:: Apply different data mining methodologies with information systems.

# **List of Practicals / Experiments:**

## **Introduction to RapidMiner**

- · Importing data into Rapid mine
- · Graphical representation of data
- Storing and retrieving data

#### **Data Preprocessing**

- Identify and remove the missing values in the data set
- Apply operations for handling meta data like rename or attribute role definition

## **Prediction and Classification**

- Applying model for prediction
- Implementation of Bayesian model and decision tree on imported data

#### **Validation of Models**

- Cross validation of various data mining models
- · Creation of generic optimization preprocessor

# **Applications of Data Warehousing and Data Mining**

- Case studies of Data Warehousing in financial data analysis and retail industries
- Case studies of Data Warehousing in Indian Railway reservation system and other industrial use

Text Books: 1. EXPLORING DATA WITH RAPIDMINER by ANDREW CHISHOLM, PACKT PUBLISHING

References:

1. INTRODUCTION TO DATA MINING by PANG-NING TAN , MICHAEL STEINBACH , VIPIN KUMAR, PEARSON

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