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