CAP447:DATA WAREHOUSING AND DATA MINING-LABORATORY

L:0 T:0 P:2   Credits:1

Course Outcomes: Through this course students should be able to

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

CO2 :: Practice different data mining methodologies with existing data sets

CO3 :: Collect Data Set and apply data mining methodologies

CO4 :: Predict the classification model and summarize the results

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