Experiment List

Data Mining Lab

Week-1: Demonstrate Apriori based Association Rule Mining
Week-2: Demonstrate FP –growth based Association Rule Mining
Week-3: Weather classification using WEKA Tool
Week-4: Demonstrate K-means based Clustering

Week-5: Demonstrate PAM based Clustering
Week-6: Credit Risk Assessment

Description: The business of banks is making loans. Assessing the credit worthiness of an applicant is of crucial importance. You have to develop a system to help a loan officer decide whether the credit of a customer is good, or bad. A bank's business rules regarding loans must consider two opposing factors. On the one hand, a bank wants to make as many loans as possible. Interest on these loans is the banks profit source. On the other hand, a bank cannot afford to make too many bad loans. Too many bad loans could lead to the collapse of the bank. The bank's loan policy must involve a compromise: not too strict, and not too lenient.

Experiment List

Case Tools Lab

Week 1: Installing UML Argo Software and identifying various components in UML.

Week 2: Design and Construct the Class Diagram of
         (i) ATM System.
         (ii) Unified Library Management System.
         (iii) Airport Management System.

Week 3: Design and Construct the Sequence Diagram
         (i) ATM System.
         (ii) Unified Library Management System.
         (iii) Airport Management System.
Week 4: Design and Construct the Collaboration Diagram
   (i) ATM System.
   (ii) Unified Library Management System.
   (iii) Airport Management System.

Week 5: Design and Construct the Use case Diagram
   (i) ATM System.
   (ii) Unified Library Management System.
   (iii) Airport Management System.
   (iv) 

Week 6: Design and Construct the Activity and State Chart Diagram
   (i) ATM System.
   (ii) Unified Library Management System.
   (iii) Airport Management System.

Week 7: Design and Construct the Component and Deployment Diagram
   (i) ATM System.
   (ii) Unified Library Management System.
   (iii) Airport Management System.

References - Data Mining Lab:
1. Data Mining- Concepts and Techniques by Jiawei Han, Micheline Kamber and Jian Pei – Morgan Kaufmann publishers ---2nd edition
2. Introduction to Data Mining – Pang-Ning Tan, Michael Steinbach and Vipin Kumar, Pearson education
3. The WEKA Workbench Eibe Frank, Mark A. Hall, and Ian H. Witten

References - Case Tools Mining Lab: