



Vidya Jyothi Institute of Technology

(An Autonomous Institution)

(Accredited by NAAC & NBA, Approved by AICTE New Delhi, Permanently Affiliated to JNTUH)

Department of Information Technology

DATA MINING & CASE TOOLS LAB

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 bank's 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.



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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:

1. Grady Booch, James Rumbaugh, Ivar Jacobson : The Unified Modeling Language User Guide, Pearson Education 2nd Edition
2. Analysis and Design and Unified Process, Craig Larman, Pearson Education.
3. Object Oriented Analysis, Design and implementation, B. Dathan. S. Ramnath, Universities Press.
4. <https://argouml.en.softonic.com/>



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