

Pune Vidyarthi Griha's
College of Engineering & Technology
 44, Vidyanagari, Parvati, Pune – 09.

Class: BE Computer Engineering

Subject: Lab Practice – II

Group D	410244(D): Data Mining and Warehousing	Date of Submission
01.	For an organization of your choice, choose a set of business processes. Design star / snow flake schemas for analyzing these processes. Create a fact constellation schema by combining them. Extract data from different data sources, apply suitable transformations and load into destination tables using an ETL tool. For Example: Business Origination: Sales, Order, Marketing Process.	25/06/2018
02.	Consider a suitable dataset. For clustering of data instances in different groups, apply different clustering techniques (minimum 2). Visualize the clusters using suitable tool.	09/07/2018
03.	Apply a-priori algorithm to find frequently occurring items from given data and generate strong association rules using support and confidence thresholds. For Example: Market Basket Analysis	23/07/2018
04.	Consider a suitable text dataset. Remove stop words, apply stemming and feature selection techniques to represent documents as vectors. Classify documents and evaluate precision, recall.	13/08/2018
05.	Mini Project.	27/08/2018

Group A	410245(A): Distributed Systems	Date of Submission
01.	Design and develop a basic prototype distributed system (e.g. a DFS).	27/06/2018
02.	Design and implement client server application using RPC/ RMI mechanism.	04/07/2018
03.	Design and implement a clock synchronization algorithm for prototype DS.	11/07/2018
04.	Implement Ring or Bully election algorithm for prototype DS.	18/07/2018
05.	Implement Ricart Agrawala's distributed algorithm for mutual exclusion.	25/07/2018
06.	Simulate Wait for Graph based Centralized or Hierarchical or Distributed algorithm for deadlock detection.	01/08/2018
06.	Mini Project – 01: Design, implement, and thoroughly test a distributed system, implementing - An airline reservation system. Each airline would maintain its own collection of servers, with enough state replication to enable automatic fail-over. It would be possible to book travel that involves multiple airlines.	29/08/2018
07.	Mini Project – 02: Design, implement, and thoroughly test a distributed system, implementing - Implement a distributed file system that does something interesting. Maybe you want one for storing your MP3s or movies. Or perhaps for something entirely different.	19/09/2018

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Group B	410245(B): Software Testing and Quality Assurance	Date of Submission
01.	Mini-Project 1: Create a small application by selecting relevant system environment / platform and programming languages. Narrate concise Test Plan consisting features to be tested and bug taxonomy. Prepare Test Cases inclusive of Test Procedures for identified Test Scenarios. Perform selective Black-box and White-box testing covering Unit and Integration test by using suitable Testing tools. Prepare Test Reports based on Test Pass/Fail Criteria and judge the acceptance of application developed.	27/07/2018
02.	Mini-Project 2: Create a small web-based application by selecting relevant system environment / platform and programming languages. Narrate concise Test Plan consisting features to be tested and bug taxonomy. Narrate scripts in order to perform regression tests. Identify the bugs using Selenium WebDriver and IDE and generate test reports encompassing exploratory testing.	24/08/2018

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