**SAVEETHA SCHOOL OF ENGINEERING**

**SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES**

**COMPUTER SCIENCE AND ENGINEERING**

**CSA1654-DATAWAREHOUSING AND DATA MINING FOR MEDICAL APPLICATIONS**

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|  | **LIST OF EXPERIMENTS** |
|  | **ETL AND OLAP OPERATION USING KNIME DATA ANALYTICS PLATFORM.** |
|  | **PREDICTION ANALYSIS USING LINEAR REGRESSION THROUGH R TOOL.** |
|  | **PLOTTING GRAPHS USING R TOOL.** |
|  | **CENTRAL TENDENCY AND DATA DISPERSION MEASURES USING R-TOOL.** |
|  | **PERFORM CORRECTION ANALYSIS AND NORMALIZATION.** |
|  | **REGRESSION ANALYSIS USING R TOOL.** |
|  | **DATA PREPROCESSING AND PREPARATION FOR KNOWLEDGE ANALYSIS USING WEKA.** |
|  | **K-MEANS CLUSTER ANALYSIS USING WEKA.** |
|  | **DATA ANALYSIS BY EXPECTATION MAXIMISATION ALGORITHM USING WEKA.** |
|  | **DATA ANALYSIS BY COBWEB-HIERARCHAL CLUSTERING ALGORITHM USING WEKA.** |
|  | **KNOWLEDGE MINING USING ASSOCIATION RULE USING WEKA.** |
|  | **FP GROWTH ALGORITHM USING WEKA.** |
|  | **PREDICTION OF CATEGORICAL DATA USING DECISION TREE ALGORITHM USING WEKA.** |
|  | **PREDICTION OF CATEGORICAL DATA USING SMO ALGORITHM USING WEKA.** |
|  | **EVALUATING THE ACCURACY OF THE CLASSIFIERS USING WEKA** |
|  | **DATA VISUALIZATION TECHNIQUES USING KNIME DATA ANALYTICS PLATFORM.** |
|  | **PREDICTION OF CATEGORICAL DATA USING BAYESIAN ALGORITHM USING WEKA.** |
|  | **DATA ANALYSIS BY DENSITY BASED CLUSTERING ALGORITHM USING WEKA.** |
|  | **CREATE A BOXPLOT GRAPH FOR THE RELATION BETWEEN "MPG"(MILES PER GALLOON) AND "CYL"(NUMBER OF CYLINDERS) FOR THE DATASET "MTCARS" AVAILABLE IN R ENVIRONMENT** |
|  | **GIVING THE FOLLOWING DATABASE WITH 5 TRANSACTIONS AND A MINIMUM SUPPORT THRESHOLD OF 60% AND A MINIMUM CONFIDENCE THRESHOLD OF 80%, FIND ALL FREQUENT ITEMSETS USING (A) APRIORI AND (B) FP-GROWTH.** |
|  | **THE 'DATABASE' BELOW HAS NINE TRANSACTIONS. WHAT ASSOCIATION RULES CAN BE FOUND IN THIS SET, IF THE**  **MINIMUM SUPPORT (I.E COVERAGE) IS 60% AND THE MINIMUM CONFIDENCE (I.E. ACCURACY) IS 80% ?**  **TRANS\_ID ITEMLIST** |
|  | **USING R PROGRAM MAKE A HISTOGRAM FOR THE “AIRPASSENGERS “DATASET, START AT 100 ON THE X-AXIS, AND FROM VALUES 200 TO 700, MAKE THE BINS 150 WIDE** |
|  | **USING R PROGRAM CREATE A 3D PIE CHART FOR THE DATASET “POLITICAL KNOWLEDGE” WITH SUITABLE LABELS AND COLOURS.** |
|  | **OBTAIN MULTIPLE LINES IN LINE CHART USING A SINGLE PLOT FUNCTION IN R.USE ATTRIBUTES“MPG”AND“QSEC”OF THE DATASET “MTCARS”** |
|  | **USING R PROGRAM MAKE A HISTOGRAM FOR THE “TOOTHGROWTH”DATASET, START AT 100 ON THE X-AXIS, AND FROM VALUES 200 TO 700, MAKE THE BINS 150 WIDE** |