

MEDICAPS UNIVERSITY

SOFTWARE WORKSHOP II (MACHINE LEARNING)

LIST OF EXPERIMENT

Subject: Software Workshop II
Year: 3rd Semester: V

Sub code: CS3ES13

1. Install Weka on your system and get familiarized with:
 - a. Step by Step explanation of installation.
 - b. Weka Introduction.
 - c. Advantages and Disadvantages of using Weka.
 - d. Minimum hardware requirement.
2. Get familiarized with “arff” file format and create an arff file on your system and save in your Weka installed drive.
3. Implement the Linear Regression Model on Weka with the help of Suitable data set (House Price Prediction). Study and analyze the results.
While selecting your data set, try to use the following split ratios:
 - a. Training: 80%, Testing: 20%
 - b. Training: 60%, Testing: 40%
4. Implement the Logistic Regression model after properly identifying the data set. Analyze the result and identify how well the model performs on the test set. Brief the steps that you have followed for data set analysis.
5. Implement the Naive Bayes Classifier with a suitable data set and properly analyse the results.
6. Identify a dataset for Decision Tree Algorithm to implement and analyse the same with cross validation and percentage split.
7. Identify a dataset for Support Vector Machine Algorithm to implement and analyse the same with cross validation and percentage split.
8. Identify a dataset for applying filters such as removing missing values and normalizing data value. Analyse the results.
9. Identify/Prepare a dataset for implementing K-Means Clustering Algorithm and do the proper analysis of the result with visualizing the clusters and by modifying the values of K.

10. Identify a dataset for applying Component Analysis and understand the result. Do the proper analysis of the result with the help of Standard Deviation.