

INDEX

Practical No.	Practical Name	Date	Signature
1	A. Design a simple machine learning model to train the training instances and test the same.	7/10/23	<i>Z. Praveen 26/10/23</i>
	B. Implement and demonstrate the FIND-S algorithm for finding the most specific hypothesis based on a given set of training data samples. Read the training data from a .CSV file	7/10/23	
2	A. Perform Data Loading, Feature selection (Principal Component analysis) and Feature Scoring and Ranking.	14/10/23	
	B. For a given set of training data examples stored in a .CSV file, implement and demonstrate the Candidate-Elimination algorithm to output a description of the set of all hypotheses consistent with the training examples.	14/10/23	
3	A. Write a program to implement the naïve Bayesian classifier for a sample training data set stored as a .CSV file. Compute the accuracy of the classifier, considering few test data sets.	14/10/23	
	B. Write a program to implement Decision Tree and Random Forest with Prediction, Test Score and Confusion Matrix.	14/10/23	
4	A. For a given set of training data examples stored in a .CSV file implement Line Regression algorithm.	2/11/23	
	B. For a given set of training data examples stored in a .CSV file implement Logistic Regression algorithm.	2/11/23	

5	A. Write a program to demonstrate the working of the decision tree based ID3 algorithm. Use an appropriate data set for building the decision tree and apply this knowledge to classify a new sample.	2/11/23	
	B. Write a program to demonstrate the working of the decision tree based ID3 algorithm. Use an appropriate data set for building the decision tree and apply this knowledge to classify a new sample.	2/11/23	7 Breneli 2/11/23
6	A. Implement the different Distance methods (Euclidean) with Prediction, Test Score and Confusion Matrix.	11/11/23	
	B. Implement the classification model using clustering for the following techniques with K means clustering with Prediction, Test Score and Confusion Matrix.	11/11/23	
7	A. Implement the classification model using clustering for the following techniques with hierarchical clustering with Prediction, Test Score and Confusion Matrix	25/11/23	
8	A. Write a program to construct a Bayesian network considering medical data. Use this model to demonstrate the diagnosis of heart patients using standard Heart Disease Data Set. (Time Series Analysis.)	2/12/23	
	B. Implement the non-parametric Locally Weighted Regression algorithm in order to fit data points. Select appropriate data set for your experiment and draw graphs. (Exploratory Data Analysis (EDA).)	2/12/23	
9	A. Assuming a set of documents that need to be classified, use the naïve Bayesian Classifier model to perform this task.	14/12/23	

M.Sc. (Information Technology) Part II-Sem III
Machine Learning

Roll No: 16

10	A. Perform Text pre-processing, Text clustering, classification with Prediction, Test Score and Confusion Matrix	4/1/24	Promoted 2012/24
----	--	--------	---------------------