**List of Experiments**

**MLA0204-Fundamentals of Machine Learning**

**Slot-C**

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**ALGORITHMS**

1. 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.
2. For a given set of training data examples stored in a .CSV file, implement and demonstrate the Candidate-Elimination algorithm in python to output a description of the set of all hypotheses consistent with the training examples

1. 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. Build an Artificial Neural Network by implementing the Backpropagation algorithm and test the same using appropriate data sets.
3. Write a program for Implementation of K-Nearest Neighbors (K-NN) in Python
4. Write a program to implement Naïve Bayes algorithm in python and to display the results using confusion matrix and accuracy. Java/Python ML library classes can be used for this problem.
5. Write a program to implement Logistic Regression (LR) algorithm in python
6. Write a program to implement Linear Regression (LR) algorithm in python
7. Implementation Of Linear And Polynomial Regression In Python
8. Python Program to Implement Estimation & MAximization Algorithm

**APPLICATIONS**

1. Write a program for the task of Credit Score Classification
2. Iris Flower Classification using KNN
3. Car Price Prediction Model using Python
4. House price Prediction
5. NAÏVE IRIS Classification
6. Comparison of Classification Algorithms
7. Mobile Price Classification using Python
8. Perceptron IRIS classification
9. Implementation of Naive Bayes in Python – Machine Learning
10. Future Sales Prediction using Python