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| **Sr.No** | **Topic** | **Date** | **Sign** |
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| 1 | a. Design a simple machine learning model to train the training instances and test the same.  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 |  |  |
| 2 | a. Perform Data Loading, Feature selection (Principal Component analysis) and Feature Scoring and Ranking.  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. |  |  |
| 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.  b. Write a program to implement **Decision Tree** and Random forest with Prediction, Test Score and Confusion Matrix. |  |  |
| 4 | a. For a given set of training data examples stored in a .CSV file implement **Line Regression algorithm (locally weighted regression)**.  b. For a given set of training data examples stored in a .CSV file implement **Logistic Regression algorithm**. |  |  |
| 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.  b. Write a program to implement **k-Nearest Neighbour algorithm** to classify the iris data set. |  |  |
| 6 | a. Implement the different Distance methods (Euclidean) with Prediction, Test Score and Confusion Matrix.  b. Implement the classification model using clustering for the following techniques with **K means clustering** with Prediction, Test Score and Confusion Matrix. |  |  |
| 7 | a. Implement the classification model using clustering for the following techniques with hierarchical clustering with Prediction, Test Score and Confusion Matrix |  |  |
| 8 | a. Exploratory Data Analysis (EDA)  b. Time Series Analysis |  |  |
| 9 | a. **naïve Bayesian Classifier (calculate accuracy,precision recall)** |  |  |
| 10 | Perform Text pre-processing, Text clustering, classification with Prediction, Test Score and Confusion Matrix |  |  |