The List of Database for the assignment

1. House price database (https://www.kaggle.com/c/house-prices-advanced-regression-techniques/data)
2. Sports Article dataset --- class label as objective or subjective, https://archive.ics.uci.edu/ml/datasets/Sports+articles+for+objectivity+analysis
3. Iris dataset with three class labels -- -- Iris Setosa, -- Iris Versicolour, -- Iris Virginica https://archive.ics.uci.edu/ml/datasets/Iris
4. Car evaluation models, four classes – `1unacc, acc, good, vgood --- discrete attributes` https://archive.ics.uci.edu/ml/datasets/Car+Evaluation
5. Heat disease database -- https://archive.ics.uci.edu/ml/datasets/Heart+Disease
6. Breast cancer dataset, https://archive.ics.uci.edu/ml/machine-learning-databases/breast-cancer-wisconsin/
7. Bank marketing dataset -- Class label, yes or no, https://archive.ics.uci.edu/ml/datasets/Bank+Marketing
8. Abalone – predicting age of abalone -- https://archive.ics.uci.edu/ml/datasets/Abalone
9. Human activity detection –(6 class labels) -- https://archive.ics.uci.edu/ml/datasets/Abalone

List of questions for the assignment

1. Develop a multi-variate linear regression model for predicting the price of a house (Dataset No. 1).
2. Implement Bayesian classifier for Sports article dataset (2)
3. Implement K-nearest neighbour classification for iris dataset (3)
4. Implement ANN algorithm with single neuron for iris dataset. (3)
5. Implement Bayesian classifier for Iris dataset (3)
6. Implement Decision tree for car evaluation model (4)
7. Develop a prediction model for heart disease dataset using multi-variate linear regression (5).
8. Develop an ANN classification model for heart disease dataset (5).
9. Develop a classification model for breast cancer database using any classification algorithms (6).
10. Implement decision tree classifier for Bank marketing dataset (7).
11. Develop a multi-variate linear regression model for predicting the age of an abalone (8).
12. Implement a machine learning model for Human activity detection (9)
13. Develop a multi-variate linear regression model for predicting the price of a house (1).
14. Implement Bayesian classifier for Sports article dataset (2)
15. Implement K-nearest neighbour classification for iris dataset (3)
16. Implement ANN algorithm with single neuron for iris dataset. (3)
17. Implement Bayesian classifier for Iris dataset (3)
18. Implement Decision tree for car evaluation model (4)
19. Develop a prediction model for heart disease dataset using multi-variate linear regression (5).
20. Develop an ANN classification model for heart disease dataset (5).

21. Develop a classification model for breast cancer database using any classification algorithms (6).
22. Implement decision tree classifier for Bank marketing dataset (7).
23. Develop a multi-variate linear regression model for predicting the age of an abalone (8).
24. Implement a machine learning model for Human activity detection (9)
25. Develop a multi-variate linear regression model for predicting the price of a house (1).
26. Implement Bayesian classifier for Sports article dataset (2)
27. Implement K-nearest neighbour classification for iris dataset (3)
28. Implement ANN algorithm with single neuron for iris dataset. (3)
29. Implement Bayesian classifier for Iris dataset (3)
30. Implement Decision tree for car evaluation model (4)
31. Develop a prediction model for heart disease dataset using multi-variate linear regression (5).
32. Develop an ANN classification model for heart disease dataset (5).
33. Develop a classification model for breast cancer database using any classification algorithms (6).
34. Implement decision tree classifier for Bank marketing dataset (7).
35. Develop a multi-variate linear regression model for predicting the age of an abalone (8).
36. Implement a machine learning model for Human activity detection (9)

Note

1. The objective of this assignment is that students learn to,
    a. Download the dataset and understand how to use it for Machine learning projects.
    b. Understand the structure, the attributes, data types, format provided in the dataset.
    c. Develop Simple machine learning algorithm for the given dataset on their own in any of the familiar programming language
2. Student will submit a report (not exceeding 2-3 pages) containing, the problem definition, information about the dataset, the algorithm used, program for the algorithm and the results.
3. Student will also demonstrate the working of the program.
4. Learning is important, accuracy is not an issue.
5. First deadline is 11th October (to be Evaluated out of 5 marks)
6. Second deadline is 17th October (to be Evaluated out of 3 marks)
7. No more considerations after the 2nd deadline.