

Lab Assignment 7

Machine Learning (UML501)

Note: Required datasets are on LMS

| | |
|-----|---|
| Q 1 | Use the weather dataset to implement the decision tree. Try different available parameters of the inbuilt method. |
| Q 2 | Implement SVM by taking Boston dataset by dropping (using correlation) the least significant feature and tune the values of C and gamma parameters. Write your own function to find the correlation between an input feature and out feature. |
| Q3 | Implement K means clustering by using Mall Customers dataset, by making different clusters. Save the model evaluation parameters in CSV file, for each of the cluster. |
| Q4 | Implement Hierarchical clustering means clustering by using Mall Customers dataset, by making different clusters. Save the model evaluation parameters in CSV file, for each of the cluster. |
| Q5 | Implement ANN on Diabetes dataset by taking different hidden layers, Relu as activation function in the hidden layer and sigmoid as output. Store the weights in a CSV file. |
| Q6 | Implement ANN on Breast Cancer dataset by taking different hidden layers, Relu as activation function in the hidden layer and sigmoid as output. Store the weights in a CSV file. |