



Machine Learning Lab

Assignment 7

Group A – Python Program

1. Python Program for How to check if a given number is Fibonacci number?
2. Python Program to find sum of the elements of an array
3. Python Program to find largest element in an array
4. Python Program for array rotation
5. Python Program for Reversal algorithm for array rotation
6. Python Program to Split the array and add the first part to the end
7. Python Program for Find remainder of array multiplication divided by n
8. Python program to find Cumulative sum of a list
9. Python – Remove empty List from List

Group B – Program on Classification Algorithm

10 Use the `heart.csv` dataset

Perform following operation on given dataset.

- a) Find Shape of Data b) Find Missing Values c) Find data type of each column
- d) Finding out Zero's e) Find Mean age of patients
- f) Now extract only Age, Sex, ChestPain, RestBP, Chol. Randomly divide dataset in training (75%) and testing (25%).
- g) Apply Linear Regression
- h) Create confusion matrix based on above data and find
 - I. Accuracy II. Precision III. Recall IV. F-1 score
- i) Generate Classification report

11) Modify QS 10

- a) Now perform 80:20 and 65:35 division on the dataset and compare the different parameters of confusion matrix using barchart with proper labels and legends