MIDS

Assignment 1: Access an open source dataset “Titanic”. Apply pre-processing techniques on the raw dataset.

Assignment 2: Text classification for Sentimental analysis using KNN. (Refer any dataset like Titanic, Twitter, etc.)

Assignment 3: Write a program to recognize a document is positive or negative based on polarity words using suitable classification method.

Assignment 4: Download Abalone dataset. (URL: http://archive.ics.uci.edu/ml/datasets/Abalone) a) Predict the number of rings either as a continuous value or as a classification problem. b) Predict the age of abalone from physical measurements using linear regression

Assignment 5: We have given a collection of 8 points. P1=[0.1,0.6] P2=[0.15,0.71] P3=[0.08,0.9] P4=[0.16, 0.85] P5=[0.2,0.3] P6=[0.25,0.5] P7=[0.24,0.1] P8=[0.3,0.2] Perform the k-mean clustering with initial centroids as m1=P1 =Cluster#1=C1 and m2=P8=cluster#2=C2. Answer the following 1] Which cluster does P6 belong to?

ANN

Assignment 1: Write a program to scheme a few activation functions that are used in neural networks

Assignment 2: Write a program to show back propagation network for XOR function with binary input and output

Assignment 3: Write a program for producing back propagation feed forward network

Assignment 4: Write a program to demonstrate ART

Assignment 5:Write a program to demonstrate the perceptron learning law with its decision region using python. Give the output in graphical form