KNN Classification Assignment 7: Steps:

(1) Load the required library.

(11) Import the data set

(iii) separating features and target values as x & y

(iv) Take Input the ratio of test trans split and value of K (Neighborn)

(v) Spit the dataset into testing and training dataset using the given ratio.

(vi) For each iteration (length of testing dataset), i (a) Generate Neighborn for X-test [i] wing training

dataset as follows: * too each Iteration (length of toning dataset),

(A) Colculate Enchdeon distance blue X-test (i) and X-terin [j]

(B) Append (X-tominED, y-tominEi), distance) is

+ Sost the list and select top k datapoints. (b) comt the tragemy of target (categom) in the

(c) Assign the touget with maximum frequency as the class of all datapoints in the list or the datapoint in the test datased

(Vii) Componto the Confunion Matrix, Classification Report and Accurry.