

Question1 KNN and Normalization/Standardization

Attached file Q1_train.csv Q1_test.csv are the training and testing dataset for a binary classification. The last columns of both files contain the labels.

Write a basic K-nearest neighbor classifier program to test the performance on the test dataset using the Euclidean distance. Try different K values and record the performances (accuracy) below.

Submit the code along with the tables below

[illegible]

Now, add a normalization step to scale all attributes into the range of [0,1] and try your improved KNN algorithm on the test dataset and record the performance over K=1 to 9. Do the same for standardization.

Performance with scaled attributes via normalization

[illegible]