

Assignment 2

The goal of this assignment is to understand the effectiveness of condensed KNN for classification over the standard KNN. You need to use the dataset given in the link below for your experiments.

First, split the dataset into two groups: 80% (train) and 20% (test). Implement KNN and measure its accuracy for the test set. The accuracy is simply the percentage of correct classification for the test samples.

Implement condensed KNN on the same training set (80% data) to find the reduced set. Compute the accuracy of KNN for the test set using the condensed set as the training data.

You need to submit your code and a text file containing the accuracy of each KNN and the percentage of training data reduction in condensed KNN.

Link to the dataset: <https://archive.ics.uci.edu/ml/datasets/Wine>