

Implement the k Nearest Neighbors (kNN) algorithm and use it to create models for 3 datasets. You will also perform a 10-FCV for your models for each of the datasets.

Datasets to use:

Ecoli (excluding the first attribute, Sequence Name), <http://archive.ics.uci.edu/ml/datasets/Ecoli>

Glass, <http://archive.ics.uci.edu/ml/datasets/Glass+Identification>

Yeast (excluding the first attribute, Sequence Name), <http://archive.ics.uci.edu/ml/datasets/Yeast>

Your k-NN implementation (NO KNN LIBRARY USE ALLOWED) should receive the following input parameters:

The value of k, or number of neighbors to use for classification

The distance measure to use which can be: a) Euclidean, b) Polynomial kernel, c) Radial basis kernel

The dataset to use