

Deadline: March 29, 2018

K-nearest-neighbours

Implement k-nearest-neighbours algorithm. Use data from iris folder. File 'train.txt' contains cases from training set. File 'test.txt' contains cases from test set. Algorithm should use the data from training set to classify each case from the test set.

Use euclidean distance metric. K number should be provided by user.

For each example from test set print: label of a class predicted by the algorithm and class label provided in test set. Compute accuracy (percentage of correctly classified examples). Example:

```
Predicted Test
Iris-setosa Iris-setosa
Iris-setosa Iris-setosa
Iris-setosa Iris-versicolor
...
Accuracy:78,5%
```

Except from test set, provide functionality to manually input(i.e. from keyboard) test example for classification.

Optional: Plot percentage of correctly classified test examples versus K.