

IT542 Homework 2

Due: July 31st, 2019

Finding best Classification method for leaf dataset.

Find best classification method and best parameters for the given dataset (SUCourse → IT542 Course web page → Resources → datasets → leaf-dataset.zip).

Original link for the dataset:

<https://archive.ics.uci.edu/ml/machine-learning-databases/00288/>

- You should try at least 3 classification methods.
- For each classification method find the best parameters by using cross validation or train validation split.
- After finding best method and parameter values, please create a table that shows all of your results as shown below (given values are not correct! :)

Method	Parameters	Accuracy
Random Forest Classifier	Param1=0.1 Param2 = 5	0.0001
Gradient-Boosted Classifier	Param1=0.3 Param2 = 6	0.00000000000002
....