Detailed Machine Learning Workflow Report

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Mon Apr 22 21:28:51 2019

ML Plan

Type: classification

Target Variable: Species

Meta of Data

Number of classes: 3

Size of majority class: 50 Size of minority class: 50 Number of features: 5

Number of numeric features: 4 Number of symbolic features: 0

Number of records: 150

Number of records with missing values: 150

Number of total missing values: 0

Data Highlight:

A tibble: 150 x 1

##		`dataStore\$mlPlan\$data~	\$Sepal.Width	\$Petal.Length	\$Petal.Width	\$Species
##		<dbl></dbl>	<dbl></dbl>	<dbl></dbl>	<dbl></dbl>	<chr></chr>
##	1	5.1	3.5	1.4	0.2	setosa
##	2	4.9	3	1.4	0.2	setosa
##	3	4.7	3.2	1.3	0.2	setosa
##	4	4.6	3.1	1.5	0.2	setosa
##	5	5	3.6	1.4	0.2	setosa
##	6	5.4	3.9	1.7	0.4	setosa
##	7	4.6	3.4	1.4	0.3	setosa
##	8	5	3.4	1.5	0.2	setosa
##	9	4.4	2.9	1.4	0.2	setosa
##	10	4.9	3.1	1.5	0.1	setosa

... with 140 more rows

ML Pipes

Machine Learning Pipeline Object

ID: nnet

Learning Algorithm: [1] "classif.nnet"

Preprocessing List: character(0)

Train, Test, Cross Validation Split: [[1]]

Resample description: holdout with 0.60 split rate.

Predict: test

Stratification: FALSE

MLR Task: ##### [[1]]

Supervised task: nnet

Type: classif Target: Species Observations: 150

Features:

numerics factors ordered functionals
4 0 0 0

Missings: FALSE Has weights: FALSE Has blocking: FALSE Has coordinates: FALSE

Classes: 3

setosa versicolor virginica 50 50 50

Positive class: NA

MLR Learner: ##### [[1]]

Learner classif.nnet from package nnet

Type: classif

Name: Neural Network; Short name: nnet

Class: classif.nnet

Properties: twoclass, multiclass, numerics, factors, prob, weights

Predict-Type: response Hyperparameters: size=3

MLR Model: ##### [[1]]

Resample Result Task: nnet

Learner: classif.nnet

Runtime: 0.017961

Machine Learning Pipeline Object

ID: ksvm

Learning Algorithm: [1] "classif.ksvm"

Preprocessing List: character(0)

Train, Test, Cross Validation Split: [[1]]

Resample description: holdout with 0.60 split rate.

Predict: test

Stratification: FALSE

MLR Task: ##### [[1]]

Supervised task: ksvm

Type: classif Target: Species Observations: 150

Features:

numerics factors ordered functionals 4 0 0 0

Missings: FALSE Has weights: FALSE Has blocking: FALSE Has coordinates: FALSE

Classes: 3

setosa versicolor virginica 50 50 50

Positive class: NA

MLR Learner: ##### [[1]]

Learner classif.ksvm from package kernlab

Type: classif

Name: Support Vector Machines; Short name: ksvm

Class: classif.ksvm

Properties: twoclass, multiclass, numerics, factors, prob, class.weights

Predict-Type: response
Hyperparameters: fit=FALSE

MLR Model: ##### [[1]]

Resample Result Task: ksvm

lask: ksvm

Learner: classif.ksvm

Aggr perf: mmce.test.mean=0.0666667,acc.test.mean=0.9333333,timetrain.test.mean=0.0000000

Runtime: 0.015955

References

Thiloshon Nagarajah and Guhanathan Poravi (2019). automlr: Automated Machine Learning in R. R package version 0.0.009.

R Core Team (2012). R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. ISBN 3-900051-07-0, URL http://www.R-project.org/