

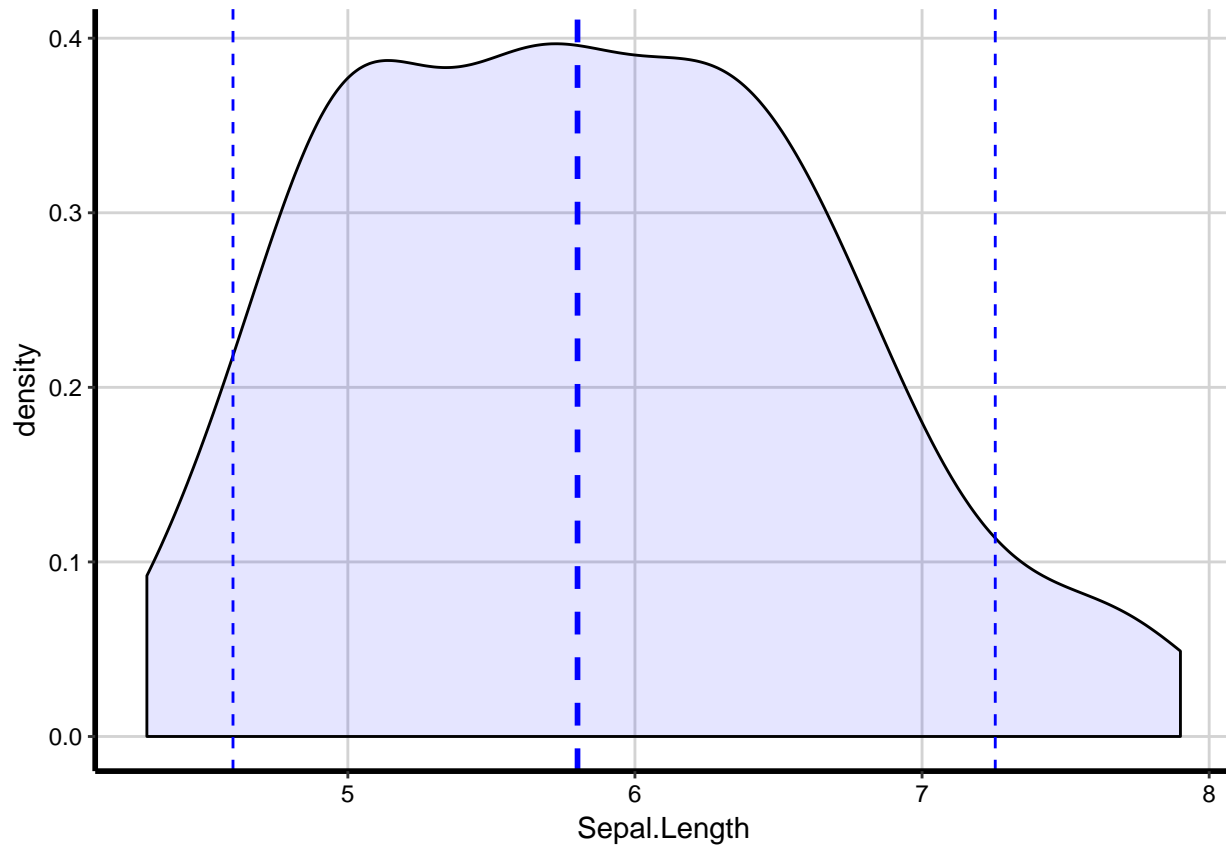
shinyMlr report

Your data analysis and machine learning experiment summary

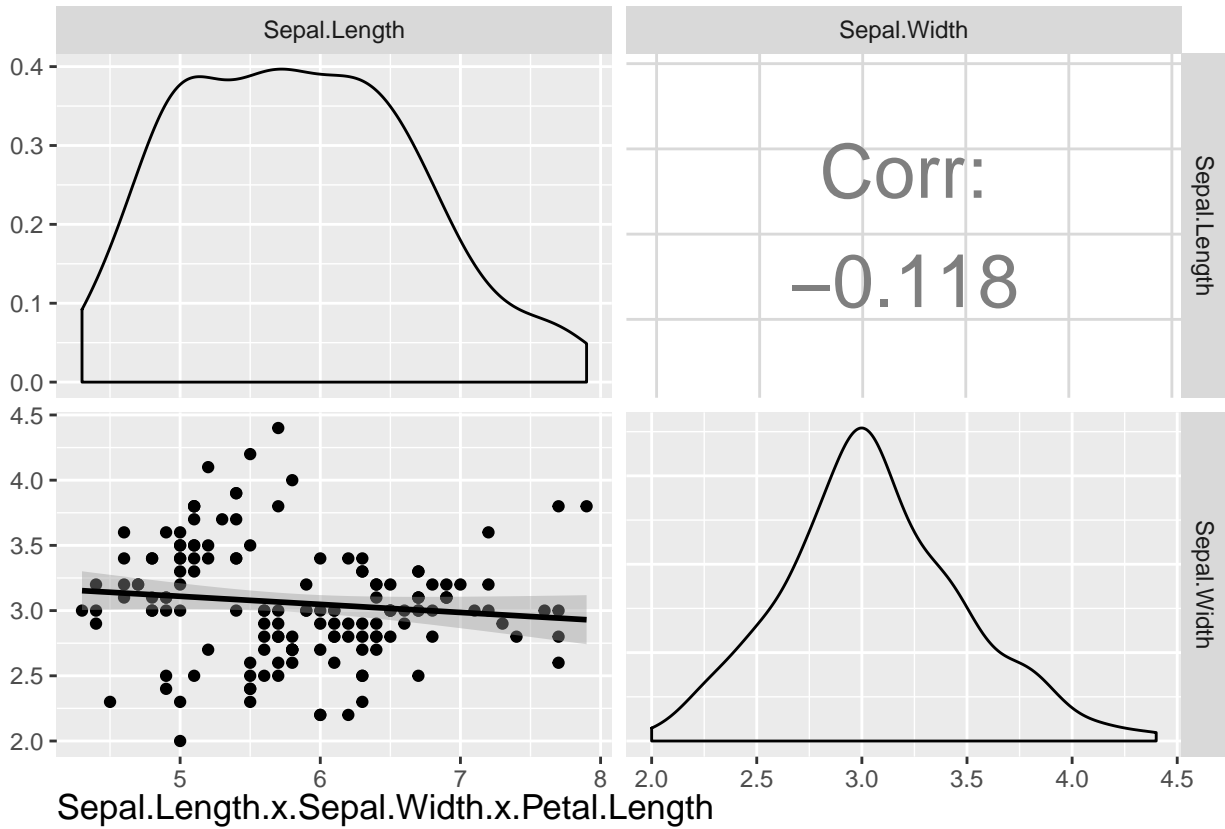
2019-03-01

Data summary

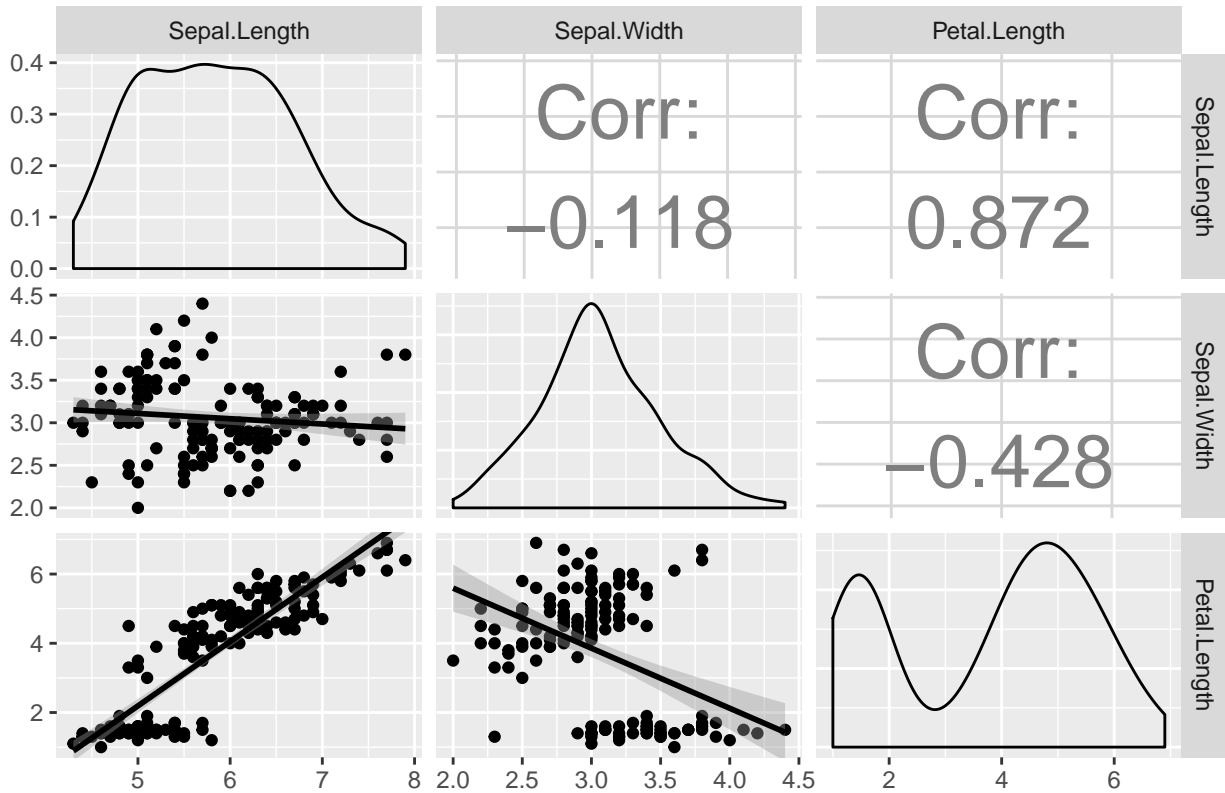
name	type	na	mean	disp	median	mad	min	max	nlevs
Sepal.Length	numeric	0	5.84	0.828	5.80	1.038	4.3	7.9	0
Sepal.Width	numeric	0	3.06	0.436	3.00	0.445	2.0	4.4	0
Petal.Length	numeric	0	3.76	1.765	4.35	1.853	1.0	6.9	0
Petal.Width	numeric	0	1.20	0.762	1.30	1.038	0.1	2.5	0
Species	factor	0	NA	0.667	NA	NA	50.0	50.0	3



Sepal.Length.x.Sepal.Width



Sepal.Length.x.Sepal.Width.x.Petal.Length



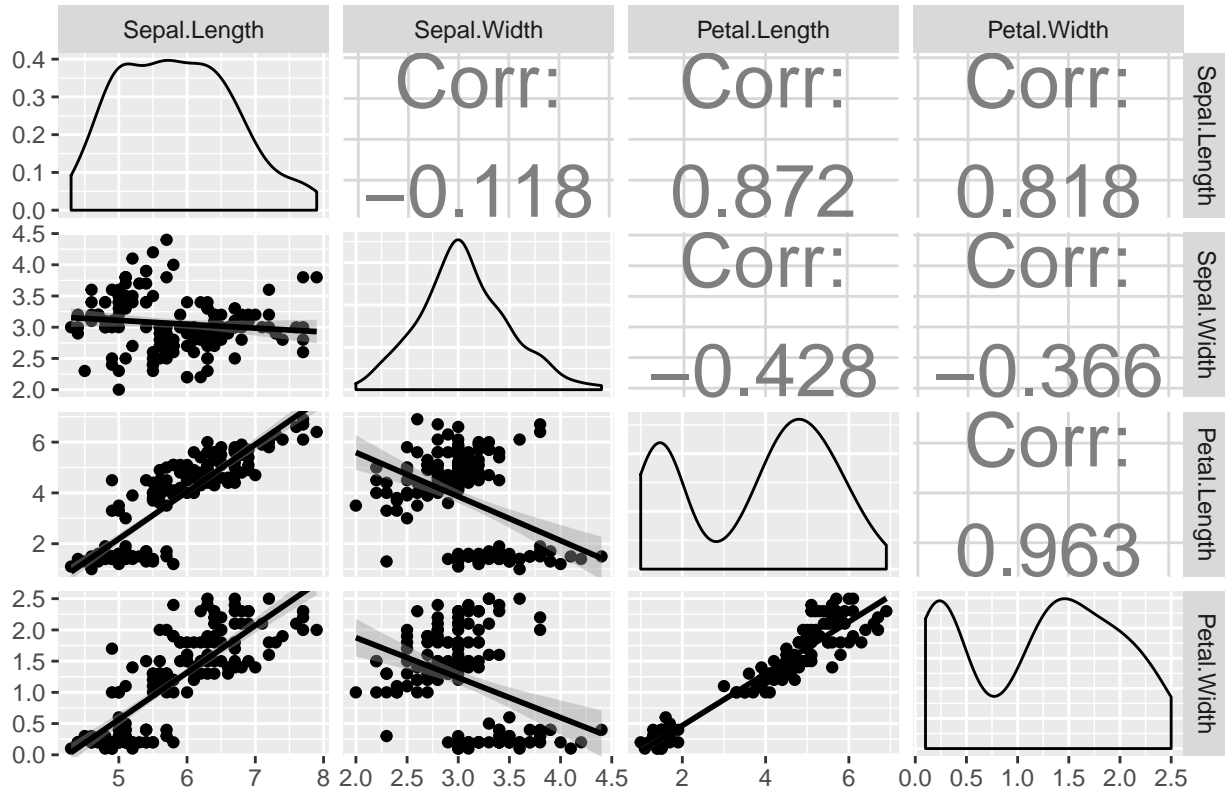
plot: [1,1] [==>-----] 6% est: 0s

```

## plot: [1,2] [=====>-----] 12% est: 1s
## plot: [1,3] [=====>-----] 19% est: 1s
## plot: [1,4] [=====>-----] 25% est: 1s
## plot: [2,1] [=====>-----] 31% est: 1s
## plot: [2,2] [=====>-----] 38% est: 1s
## plot: [2,3] [=====>-----] 44% est: 1s
## plot: [2,4] [=====>-----] 50% est: 1s
## plot: [3,1] [=====>-----] 56% est: 1s
## plot: [3,2] [=====>-----] 62% est: 1s
## plot: [3,3] [=====>-----] 69% est: 0s
## plot: [3,4] [=====>-----] 75% est: 0s
## plot: [4,1] [=====>-----] 81% est: 0s
## plot: [4,2] [=====>-----] 88% est: 0s
## plot: [4,3] [=====>-----] 94% est: 0s
## plot: [4,4] [=====>-----] 100% est: 0s

```

Sepal.Length.x.Sepal.Width.x.Petal.Length.x.Petal.Width



```

##
plot: [1,1] [=>-----] 4% est: 0s
plot: [1,2] [=====>-----] 8% est: 1s
plot: [1,3] [=====>-----] 12% est: 2s
plot: [1,4] [=====>-----] 16% est: 2s
plot: [1,5] [=====>-----] 20% est: 2s
plot: [2,1] [=====>-----] 24% est: 2s
plot: [2,2] [=====>-----] 28% est: 2s
plot: [2,3] [=====>-----] 32% est: 2s
plot: [2,4] [=====>-----] 36% est: 2s
plot: [2,5] [=====>-----] 40% est: 1s
plot: [3,1] [=====>-----] 44% est: 1s

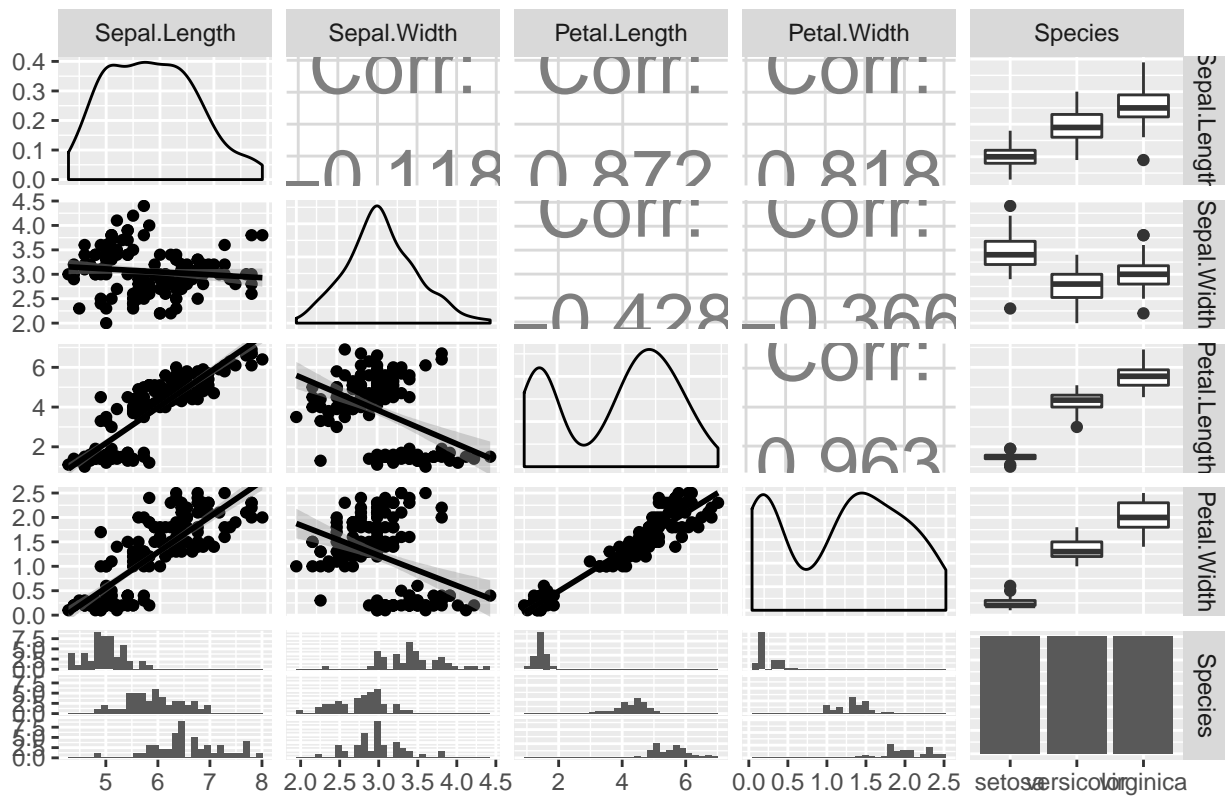
```

```

plot: [3,2] [=====>-----] 48% est: 1s
plot: [3,3] [=====>-----] 52% est: 1s
plot: [3,4] [=====>-----] 56% est: 1s
plot: [3,5] [=====>-----] 60% est: 1s
plot: [4,1] [=====>-----] 64% est: 1s
plot: [4,2] [=====>-----] 68% est: 1s
plot: [4,3] [=====>-----] 72% est: 1s
plot: [4,4] [=====>-----] 76% est: 1s
plot: [4,5] [=====>-----] 80% est: 1s
plot: [5,1] [=====>-----] 84% est: 0s `stat_bin()` using `bins = 30`
##
plot: [5,2] [=====>-----] 88% est: 0s `stat_bin()` using `bins = 30`
##
plot: [5,3] [=====>-----] 92% est: 0s `stat_bin()` using `bins = 30`
##
plot: [5,4] [=====>-----] 96% est: 0s `stat_bin()` using `bins = 30`
##
plot: [5,5] [=====] 100% est: 0s

```

Sepal.Length.x.Sepal.Width.x.Petal.Length.x.Petal.Width.x.Species



Task

Target name: Species

Number of observations: 150

Number of features: 4

Target levels: setosa, versicolor, virginica

Learners

classif.randomForest

	Type	len	Def	Constr	Req	Tunable	Trafo
ntree	integer	-	500	1 to Inf	-	TRUE	-
mtry	integer	-	-	1 to Inf	-	TRUE	-
replace	logical	-	TRUE	-	-	TRUE	-
classwt	numericvector	NA	-	0 to Inf	-	TRUE	-
cutoff	numericvector	NA	-	0 to 1	-	TRUE	-
sampsize	integervector	NA	-	1 to Inf	-	TRUE	-
nodesize	integer	-	1	1 to Inf	-	TRUE	-
maxnodes	integer	-	-	1 to Inf	-	TRUE	-
importance	logical	-	FALSE	-	-	TRUE	-
localImp	logical	-	FALSE	-	-	TRUE	-
proximity	logical	-	FALSE	-	-	FALSE	-
oob.prox	logical	-	-	-	Y	FALSE	-
norm.votes	logical	-	TRUE	-	-	FALSE	-
do.trace	logical	-	FALSE	-	-	FALSE	-
keep.forest	logical	-	TRUE	-	-	FALSE	-
keep.inbag	logical	-	FALSE	-	-	FALSE	-

classif.rpart

	Type	len	Def	Constr	Req	Tunable	Trafo
minsplit	integer	-	20	1 to Inf	-	TRUE	-
minbucket	integer	-	-	1 to Inf	-	TRUE	-
cp	numeric	-	0.01	0 to 1	-	TRUE	-
maxcompete	integer	-	4	0 to Inf	-	TRUE	-
maxsurrogate	integer	-	5	0 to Inf	-	TRUE	-
usesurrogate	discrete	-	2	0,1,2	-	TRUE	-
surrogatestyle	discrete	-	0	0,1	-	TRUE	-
maxdepth	integer	-	30	1 to 30	-	TRUE	-
xval	integer	-	10	0 to Inf	-	FALSE	-

classif.svm

	Type	len	Def	Constr	Req	Tunable	Trafo
type	discrete	-	C-classifica. ...	C-classification,nu-classification	-	TRUE	-
cost	numeric	-	1	0 to Inf	Y	TRUE	-
nu	numeric	-	0.5	-Inf to Inf	Y	TRUE	-
class.weights	numericvector	NA	-	0 to Inf	-	TRUE	-
kernel	discrete	-	radial	linear,polynomial,radial,sigmoid	-	TRUE	-
degree	integer	-	3	1 to Inf	Y	TRUE	-
coef0	numeric	-	0	-Inf to Inf	Y	TRUE	-
gamma	numeric	-	-	0 to Inf	Y	TRUE	-
cacheSize	numeric	-	40	-Inf to Inf	-	TRUE	-
tolerance	numeric	-	0.001	0 to Inf	-	TRUE	-
shrinking	logical	-	TRUE	-	-	TRUE	-

	Type	len	Def	Constr	Req	Tunable	Trafo
cross	integer	-	0	0 to Inf	-	FALSE	-
fitted	logical	-	TRUE	-	-	FALSE	-

Train and Predict

Trained learner: Decision Tree

Performance on task:

	perf.on.task
mmce	0.04

Performance on test set:

	perf.on.test
mmce	0.04

Benchmark

task.id	learner.id	acc.test.mean
iris-example	classif.randomForest	0.960
iris-example	classif.rpart	0.933
iris-example	classif.svm	0.967