

Date:13/09/22

Course name:-Data warehousing and Data mining for medical applications

Course code:-CSA1654

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EXPERIMENT:12

Weka Explorer

Preprocess Classify Cluster Associate Select attributes Visualize

Classifier: Choose OneR-B 6

Test options:

- ☐ Use training set
- ☐ Supplied test set
- ☒ Cross-validation Folds: 10
- ☐ Percentage split %: 66

(Nom) class: Start Stop

Result list (right-click for options):

- 132952 - rulesOneR
- 132951 - rulesOneR
- 132952 - rulesOneR

Classifier output:

petalwidth  
class

Test mode: 10-fold cross-validation

=== Classifier model (full training set) ===

ZeroR predicts class value: Iris-setosa

Time taken to build model: 0 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances	50	33.3333 %
Incorrectly Classified Instances	100	66.6667 %
Kappa statistic	0	
Mean absolute error	0.4444	
Root mean squared error	0.4714	
Relative absolute error	100 %	
Root relative squared error	100 %	
Total Number of Instances	150	

=== Detailed Accuracy By Class ===

	TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class
	1.000	1.000	0.333	1.000	0.500	?	0.500	0.333	Iris-setosa
	0.000	0.000	?	0.000	?	?	0.500	0.333	Iris-versicolor
	0.000	0.000	?	0.000	?	?	0.500	0.333	Iris-virginica
Weighted Avg.	0.333	0.333	?	0.333	?	?	0.500	0.333	

=== Confusion Matrix ===

a	b	c	<-- classified as
50	0	0	a = Iris-setosa
50	0	0	b = Iris-versicolor
50	0	0	c = Iris-virginica

EXPERIMENT:13

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Source: Untitled1.R, Untitled2.R, Untitled3.R, Untitled4.R, Untitled5.R, Untitled6.R, Untitled7.R, Untitled8.R

```
1 x<- 5
2 mean<- 12
3 rmean<- 10
4 a<- ((x*mean)-((x-1)*rmean))
5 meanofplayerleft<-a/x
6 print(meanofplayerleft)
```

Console:

```
R 64-bit x86_64
> [1] "a" "d" "g" "k" "x"
> sort(v, decreasing="KUK")
> [1] "x" "k" "g" "d" "a"
> x<- 5
> mean<- 12
> rmean<- 10
> a<- ((x*mean)-((x-1)*rmean))
> meanofplayerleft<-a/x
> print(meanofplayerleft)
> [1] 4
> x<- 5
> mean<- 12
> rmean<- 10
> a<- ((x*mean)-((x-1)*rmean))
> meanofplayerleft<-a/x
> print(meanofplayerleft)
> [1] 4
> x<- 3
> mean<- 12
> rmean<- 10
> a<- ((x*mean)-((x-1)*rmean))
> meanofplayerleft<-a/x
> print(meanofplayerleft)
> [1] 4
```

Environment:

Variable	Value
a	20
data	num [1:9] 56 79 77 48 90...
mean	12
meanofpla	4
rmean	10
result.me	8.22
v	chr [1:5] "p" "k" "g" "A"
var	"var" = as.integer(var); "
x	5
y	NA_real_
year	2014

EXPERIMENT:14

RStudio interface showing a script editor, environment pane, and a plot of chick weight over time.

**Script Editor:**

```
1 data("chickweight")
2 head(chickweight)
3 summary(chickweight)
4 boxplot(chickweight$time,col="yellow")
5 hist(chickweight$weight,col="red")
6 with(chickweight,plot(chick,time))
```

**Environment Pane:**

DATA

- chickweight: 578 obs. of 4 variables
- relaction: list of 12
- ToothGrowth: 60 obs. of 3 variables

Values

- A: num [1:578] 42 51 59 64 76 93 106 125 149 171 ...
- Alrpassengers: time-series [1:1142] from 1949 to 1981: 112 118 132 129 121 135 148 148 136 ...
- c: int [1:5] 1 2 3 4 5
- chickweight1: 'table' int [1:232, 1:12] 0 7 5 20 14 4 0 0 0 ...
- dectrealcalling: num [1:578] 0.42 0.51 0.59 0.64 0.76 0.93 1.06 1.25 1.49 1.71 ...
- #: num [1:4] 1 2 3 4
- t: num [1:4] 2 1 4 3
- Maximum: 373
- Mean: 122.828339200346
- Minimum: 35
- Minimax: num [1:578] 0.0207 0.0473 0.071 0.0858 0.1213 ...
- n: num [1:5] 5 6 9 89 -85

**Plot:**

The plot shows a boxplot of chick weight over time. The y-axis is labeled 'weight' and ranges from 0 to 150. The x-axis is labeled 'time' and has categories 1, 2, 3, 4. The boxplots are colored yellow. The median weight increases over time, starting around 100 at time 1 and reaching around 120 at time 4.