

Test options

☐ Supplied test set

Set...

Folds 10

%	66
---	----

(Nom) class

Stop

21:06:24 - rulesJRip

Number of Rules : 4

```
=== Stratified cross-validation ===
=== Summary ===
```

```
=== Detailed Accuracy By Class ===
```

```
=== Confusion Matrix ===
```

```
a  b  <-- classified as
428 72 | a = tested_negative
112 156 | b = tested_positive
```

OK

 X

Cluster mode

Clusterer output

```
Initial starting points (random):
```

Cluster 1: 8,95,72,0,0,36.8,0.485,57, tested negative

Final cluster centroids:

	tested negative	test positive	total
preg	3.8451	3.298	4.8657
plas	120.8945	109.98	141.2575
pres	69.1055	68.184	70.8246
skin	20.5365	19.664	22.1642
insu	79.7995	68.792	100.3358
mass	31.9926	30.3042	35.1425
pedi	0.4719	0.4297	0.5505
age	33.2409	31.19	37.0672
class	tested negative	test positive	

```
Time taken to build model (full training data) : 0.03 seconds
```

```
=== Model and evaluation on training set ===
```

Clustered Instances

0 500 (65%)

1 268 (35%)

OK

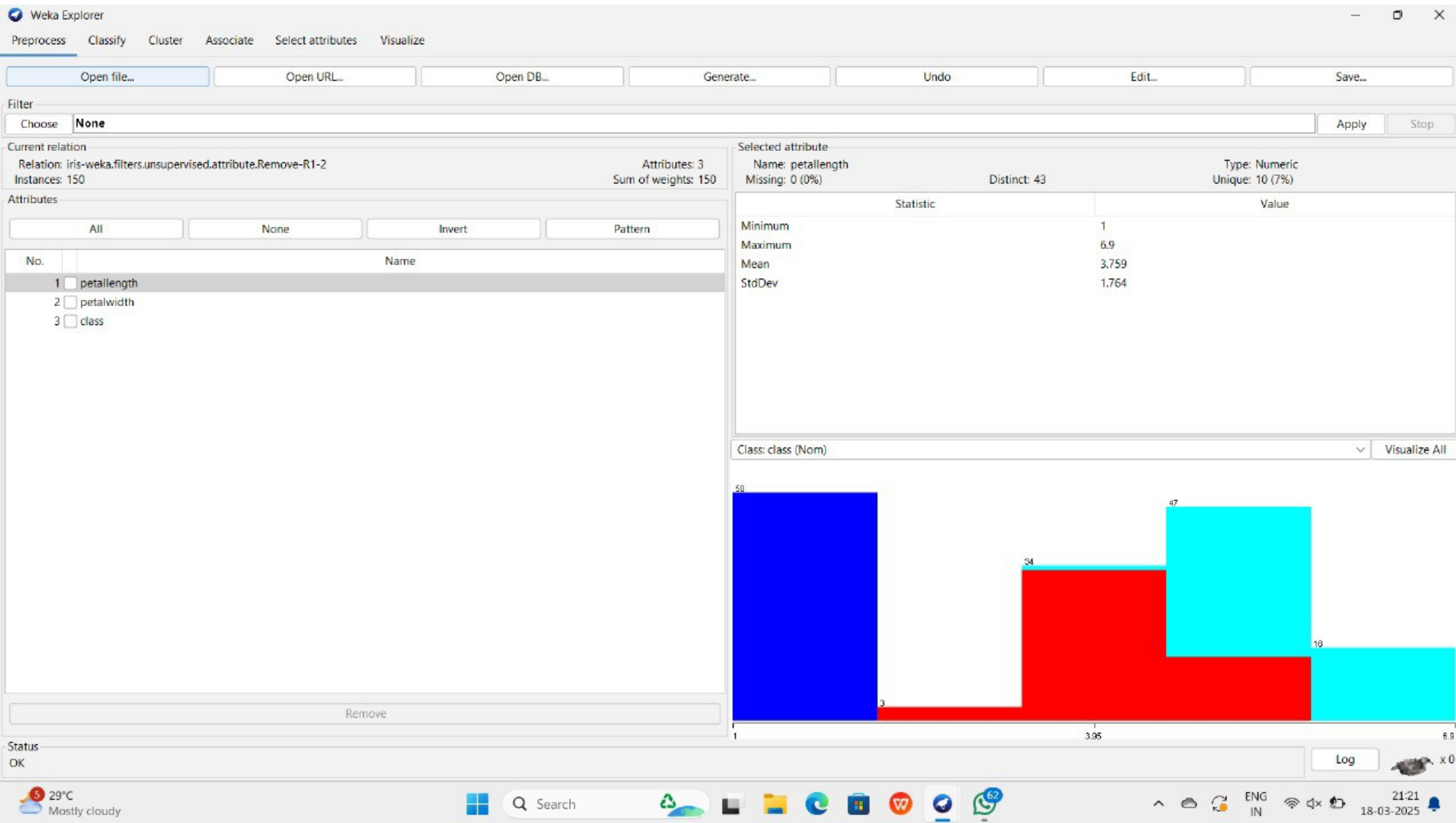
 X

☒ Use training set
☐ Supplied test set
☐ Percentage split %
☐ Classes to clusters evaluation
 (Nom) class
☒ Store clusters for visualization

Start Stop

21:11:37 - SimpleKMeans
21:17:30 - EM
21:17:49 - EM

Log  x 0



Test options

- More options...

Start

Stop

- 21:06:24 - rules.JRip
- 21:26:54 - trees.J48
- 21:27:04 - trees.J48
- 21:27:13 - trees.J48
- 21:27:48 - functions.Logistic

0003 AAL103...

```
Time taken to build model: 0.06 seconds
```

Correctly Classified Instances	144	96	%
Incorrectly Classified Instances	6	4	%
Kappa statistic	0.94		
Mean absolute error	0.0324		
Root mean squared error	0.1413		
Relative absolute error	7.2806	%	
Root relative squared error	29.9782	%	
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	0.000	1.000	1.000	1.000	1.000	1.000	1.000	Iris-setosa
	0.940	0.030	0.940	0.940	0.940	0.910	0.994	0.989	Iris-versicolor
	0.940	0.030	0.940	0.940	0.940	0.910	0.994	0.989	Iris-virginica
Weighted Avg.	0.960	0.020	0.960	0.960	0.960	0.940	0.996	0.993	

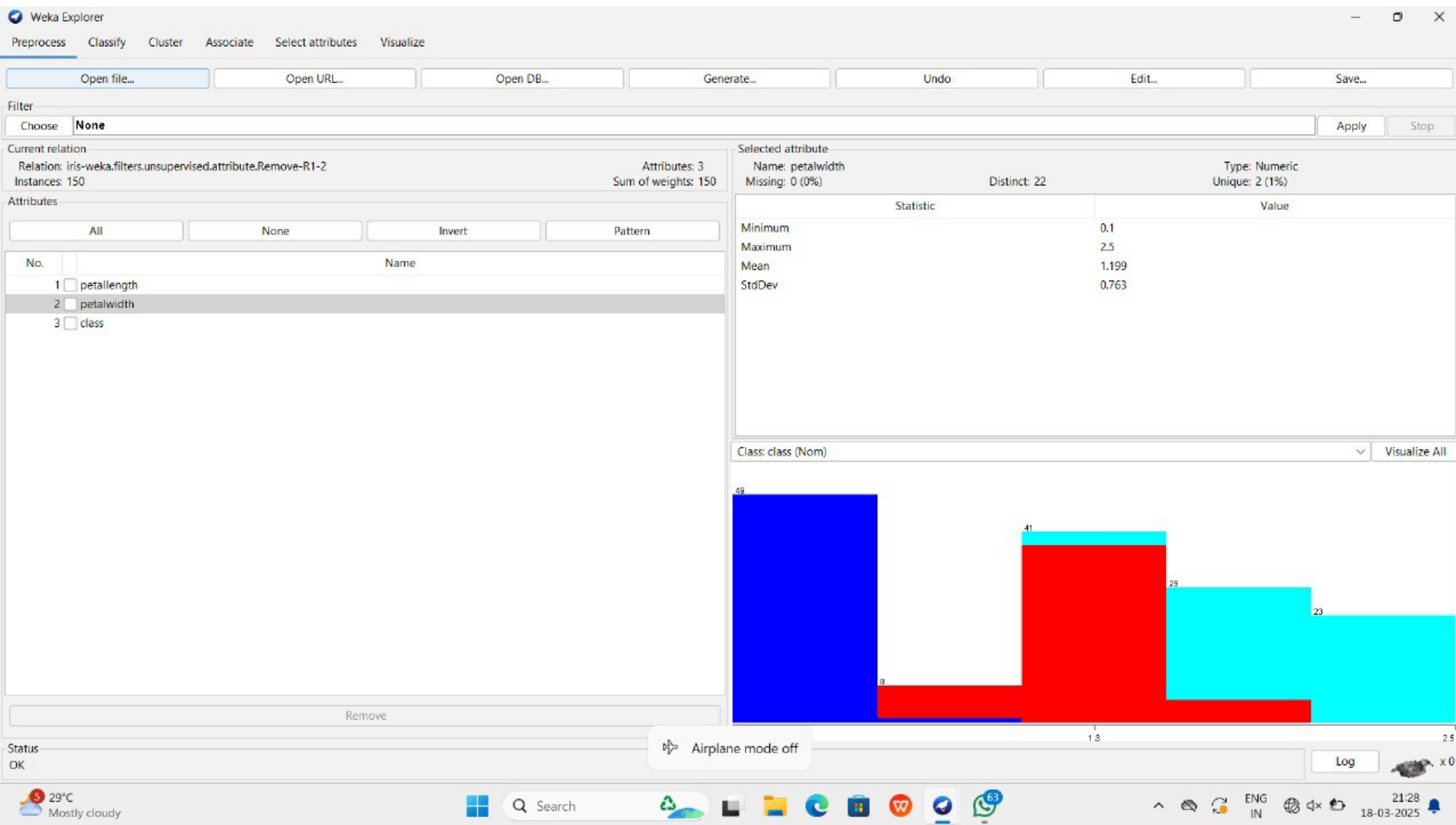
```
=== Confusion Matrix ===
```

```
a b c <-- classified as
50 0 0 | a = Iris-setosa
0 47 3 | b = Iris-versicolor
0 3 47 | c = Iris-virginica
```

OK

Log

 x 0



Weka Explorer

PreprocessClassifyClusterAssociateSelect attributesVisualize

Open file...Open URL...Open DB...Generate...UndoEdit...Save...

Filter

ChooseNone

ApplyStop

Current relation

Relation: german_creditInstances: 1000

Attributes: 21Sum of weights: 1000

Attributes

AllNoneInvertPattern

No.	Name
1	<input checked="" type="checkbox"/> checking_status
2	<input type="checkbox"/> duration
3	<input type="checkbox"/> credit_history
4	<input type="checkbox"/> purpose
5	<input type="checkbox"/> credit_amount
6	<input type="checkbox"/> savings_status
7	<input type="checkbox"/> employment
8	<input type="checkbox"/> installment_commitment
9	<input type="checkbox"/> personal_status
10	<input type="checkbox"/> other_parties
11	<input type="checkbox"/> residence_since
12	<input type="checkbox"/> property_magnitude
13	<input type="checkbox"/> age
14	<input type="checkbox"/> other_payment_plans
15	<input type="checkbox"/> housing
16	<input type="checkbox"/> existing_credits
17	<input type="checkbox"/> job
18	<input type="checkbox"/> num_dependents
19	<input type="checkbox"/> own_telephone
20	<input type="checkbox"/> foreign_worker
21	<input type="checkbox"/> class

Remove

Status

OK

Selected attribute

Name: checking_statusMissing: 0 (0%)

Type: NominalUnique: 0 (0%)

No.	Label	Count	Weight
1	<0	274	274
2	0<=X<200	269	269
3	>=200	63	63
4	no checking	394	394

Class: class (Nom)

Visualize All

Label	Count	Weight
<0	274	274
0<=X<200	269	269
>=200	63	63
no checking	394	394

29°C Mostly cloudy

Search

62

21:30 18-03-2025

Test options

Classifier output

Start Stop

```
21:06:24 - rules.JRip
21:26:54 - trees.J48
21:27:04 - trees.J48
21:27:13 - trees.J48
21:27:48 - functions.Logistic
21:30:27 - functions.SMO
```

```
Schema:      weka.classifiers.functions.SMO -C 1.0 -L 0.001 -P 1.0E-12 -N 0 -V -1 -W 1 -X "weka.classifiers.functions.supportVector.PolyKernel -E 1.0 -C 250007" -calibrator "w
Relation:    german_credit
Instances:   1000
Attributes:  21
```

```
Test mode:      10-fold cross-validation
```

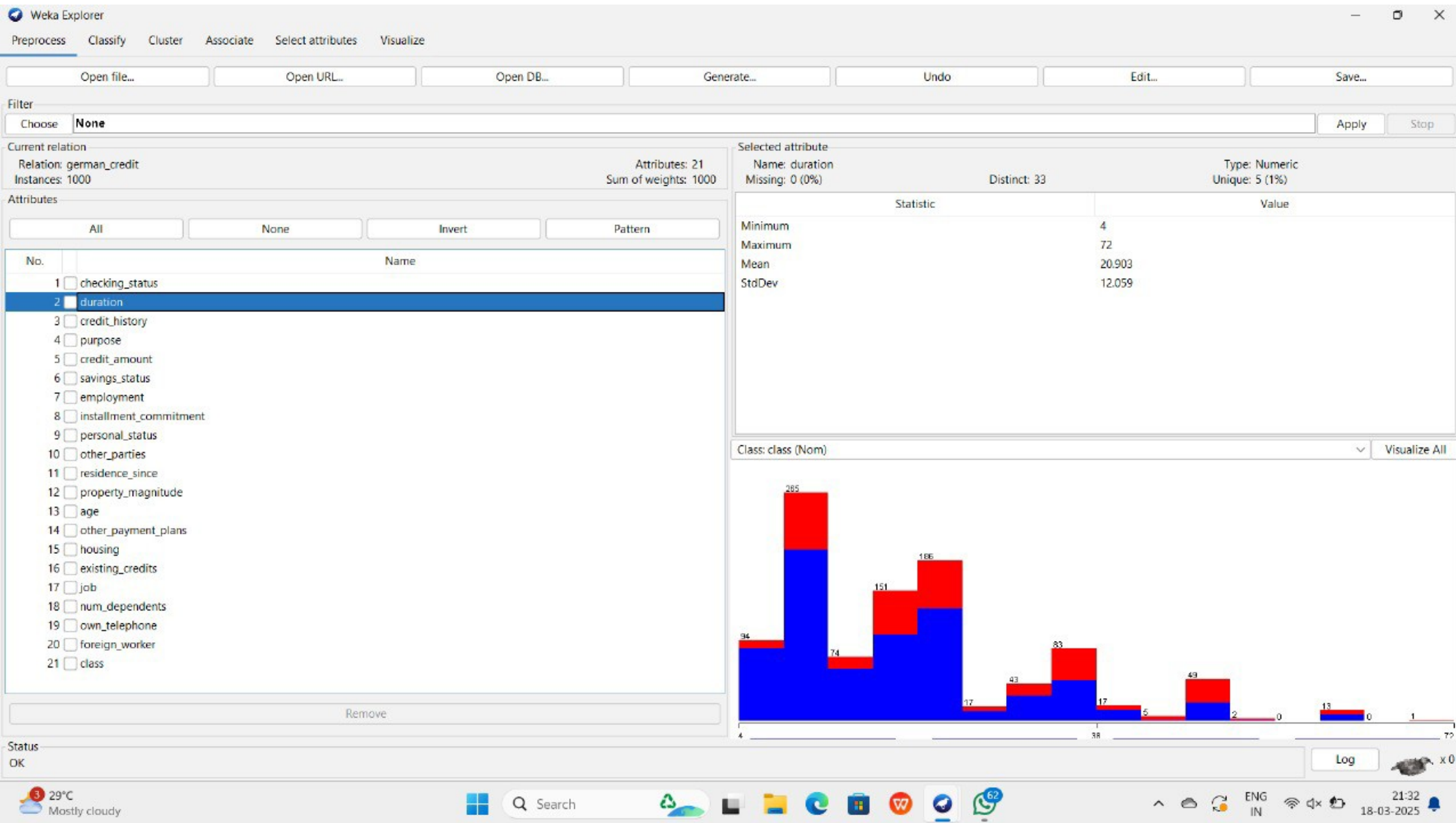
SMO

Linear Kernel: $K(x, y) = \langle x, y \rangle$

```
Classifier for classes: good, bad
```

OK

 x0



Test options

Set...

More options...

Downloaded from <http://ajph.org/> on November 10, 2014

Stop

21:30:27 - functions.SMO

 Mostly cloudy

[illegible]

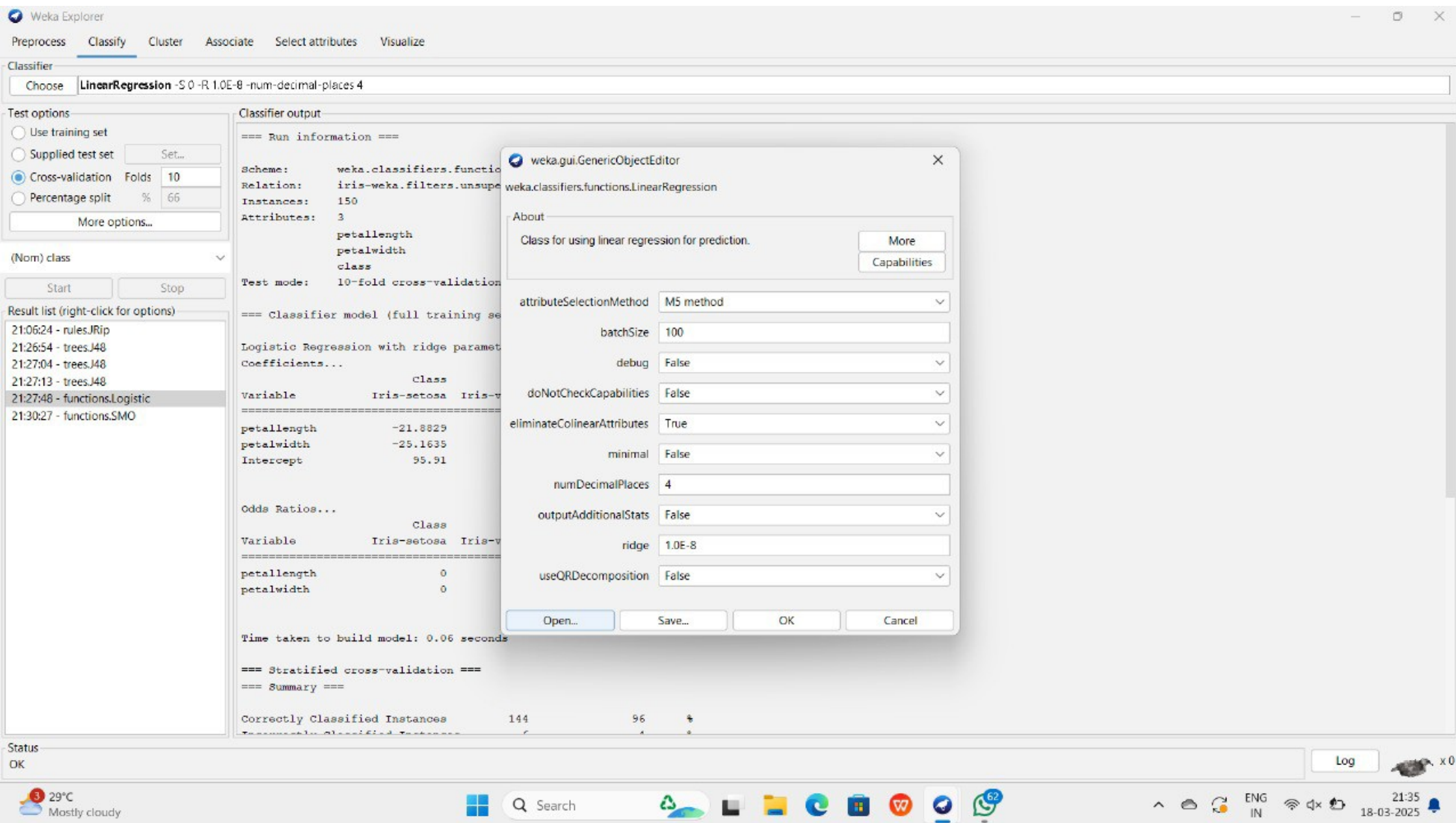
TO: DIRECTOR, FBI, WASHINGTON, D.C.

OK

 x 0

21:33
2025

21:33
18-03-2025



Weka Explorer

PreprocessClassifyClusterAssociateSelect attributesVisualize

Open file...Open URL...Open DB...Generate...UndoEdit...Save...

FilterChooseNoneApplyStop

Current relationRelation: german_creditInstances: 1000Attributes: 21Sum of weights: 1000

AttributesAllNoneInvertPattern

No.	Name
1	<input type="checkbox"/> checking_status
2	<input type="checkbox"/> duration
3	<input checked="" type="checkbox"/> credit_history
4	<input type="checkbox"/> purpose
5	<input type="checkbox"/> credit_amount
6	<input type="checkbox"/> savings_status
7	<input type="checkbox"/> employment
8	<input type="checkbox"/> installment_commitment
9	<input type="checkbox"/> personal_status
10	<input type="checkbox"/> other_parties
11	<input type="checkbox"/> residence_since
12	<input type="checkbox"/> property_magnitude
13	<input type="checkbox"/> age
14	<input type="checkbox"/> other_payment_plans
15	<input type="checkbox"/> housing
16	<input type="checkbox"/> existing_credits
17	<input type="checkbox"/> job
18	<input type="checkbox"/> num_dependents
19	<input type="checkbox"/> own_telephone
20	<input type="checkbox"/> foreign_worker
21	<input type="checkbox"/> class

Remove

Selected attributeName: credit_historyMissing: 0 (0%)Distinct: 5Type: NominalUnique: 0 (0%)

No.	Label	Count	Weight
1	no credits/all paid	40	40
2	all paid	49	49
3	existing paid	530	530
4	delayed previously	88	88
5	critical/other existing credit	293	293

Class: class (Nom)Visualize All

Category	Label	Count	Weight
1	no credits/all paid	40	40
2	all paid	49	49
3	existing paid	530	530
4	delayed previously	88	88
5	critical/other existing credit	293	293

StatusOKLog

29°C Mostly cloudy

Search

ENG IN

21:35 18-03-2025