

MODUL 9

PERCOBAAN

A. Pohon Keputusan Menggunakan WEKA

1. File cuaca.arff

Weka Explorer

Preprocess | **Classify** | Cluster | Associate | Select attributes | Visualize

Open file... Open URL... Open DB... Generate... Undo Edit... Save...

Filter: Choose **None** Apply

Current relation: Relation: Cuaca Instances: 14 Attributes: 5 Sum of weights: 14

Attributes: All None Invert Pattern

No.	Name
1	Cuaca
2	Suhu
3	Kelembaban_Udara
4	Berangin
5	Bermain_Tenis

Selected attribute: Name: Cuaca Missing: 0 (0%) Distinct: 3 Type: Nominal Unique: 0 (0%)

No.	Label	Count	Weight
1	Cerah	5	5.0
2	Mendung	4	4.0
3	Hujan	5	5.0

Class: Bermain_Tenis (Nom) Visualize All

2. Trees J48

Weka Explorer

Preprocess | Classify | **Cluster** | Associate | Select attributes | Visualize

Classifier: Choose **J48 -C 0.25 -M 2**

Test options: ☒ Use training set ☐ Supplied test set (Set...) ☐ Cross-validation (Folds: 10) ☐ Percentage split (%: 66) More options...

(Nom) Bermain_Tenis Start Stop

Result list (right-click for options): 14:28:01 - trees.J48

Classifier output

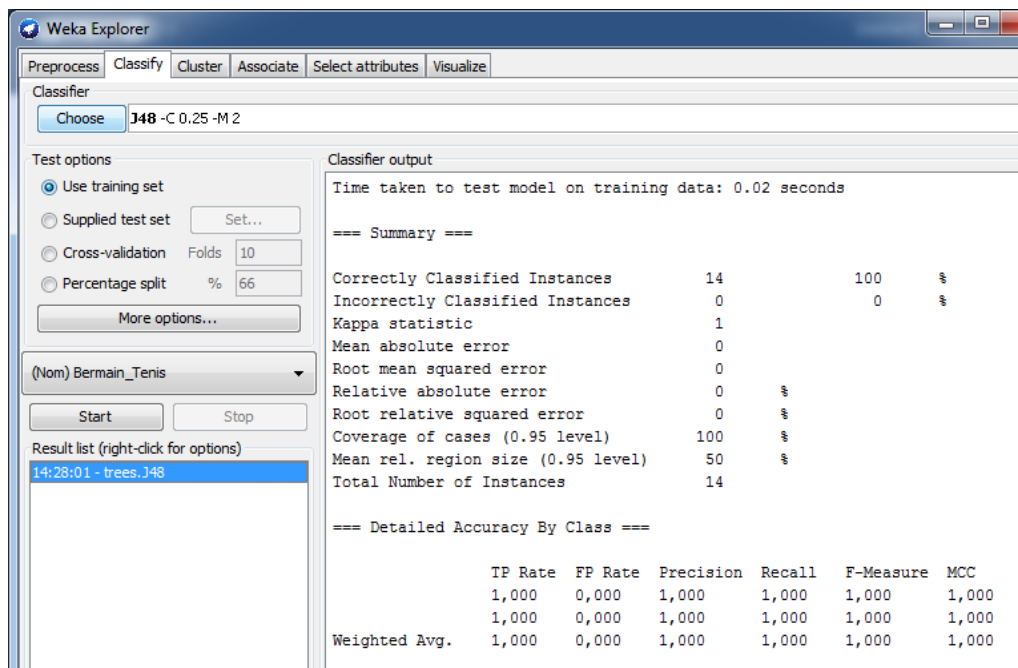
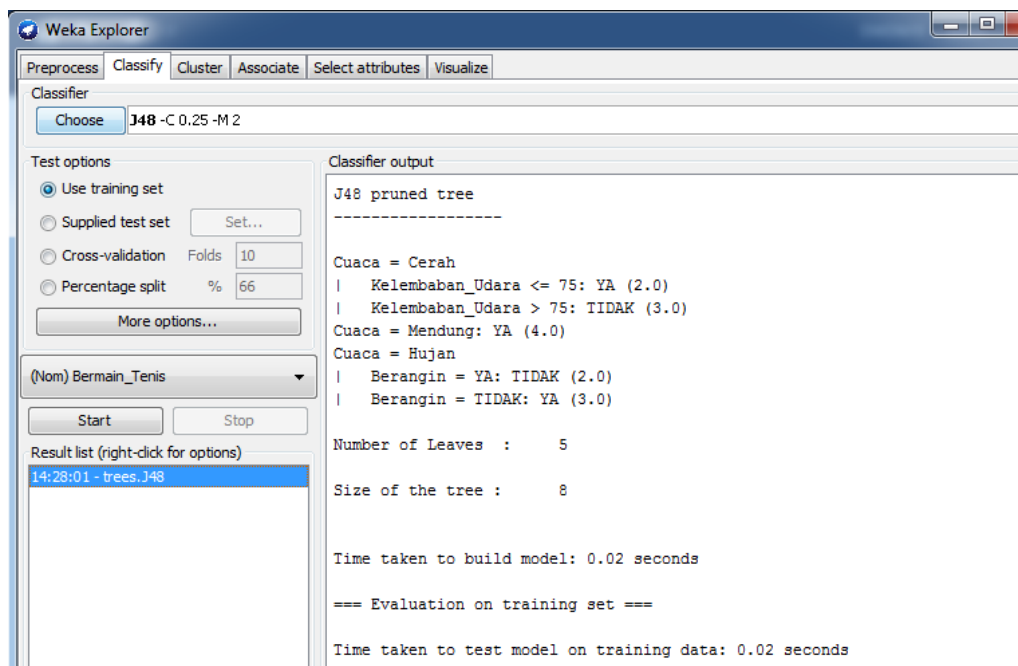
```
=== Run information ===

Scheme:      weka.classifiers.trees.J48 -C 0.25 -M 2
Relation:    Cuaca
Instances:   14
Attributes:  5
              Cuaca
              Suhu
              Kelembaban_Udara
              Berangin
              Bermain_Tenis
Test mode:   evaluate on training data

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

J48 pruned tree
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Cuaca = Cerah
|  Kelembaban_Udara <= 75: YA (2.0)
|  Kelembaban_Udara > 75: TIDAK (3.0)
Cuaca = Mendung: YA (4.0)
Cuaca = Hujan
```

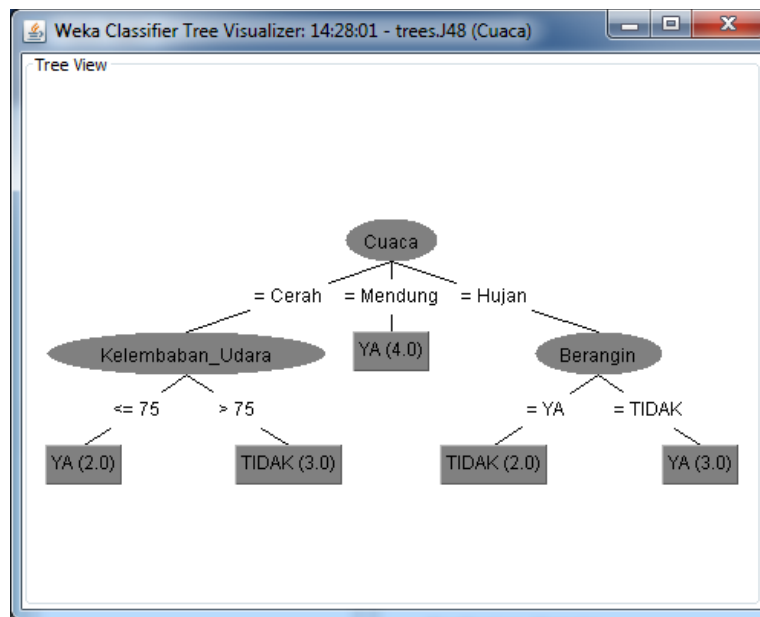


=== Confusion Matrix ===

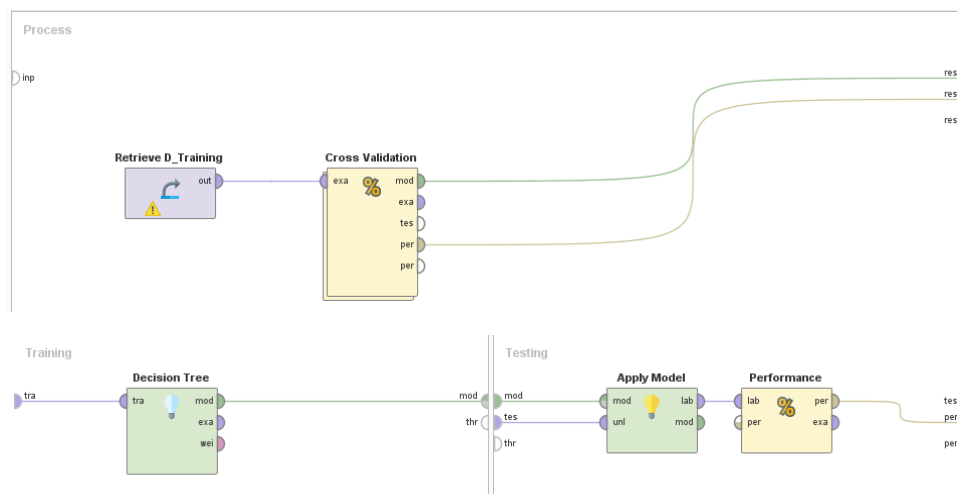
```

a b  <-- classified as
9 0 | a = YA
0 5 | b = TIDAK
  
```

3. Tree View



B. Pohon Keputusan Menggunakan RapidMiner



Parameters	
Decision Tree	
criterion	information_gain
maximal depth	10
<input checked="" type="checkbox"/> apply pruning	
confidence	0.1
<input checked="" type="checkbox"/> apply prepruning	
minimal gain	0.01

Parameters	
Decision Tree	
confidence	0.1
<input checked="" type="checkbox"/> apply prepruning	
minimal gain	0.01
minimal leaf size	2
minimal size for split	4
number of prepruning alternati...	3

PerformanceVector (Performance) × Tree (Decision Tree) × ExampleSet (//Local Repository/D_Training) ×

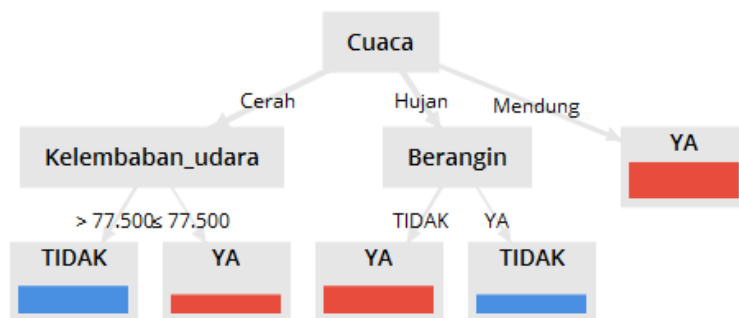
ion
acy

Table View Plot View

accuracy: 60.00% +/- 45.95% (micro average: 64.29%)

	true TIDAK	true YA	class precision
pred. TIDAK	2	2	50.00%
pred. YA	3	7	70.00%
class recall	40.00%	77.78%	

formance) × Tree (Decision Tree) × ExampleSet (//Lo



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