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## PERCOBAAN MODUL 9

The screenshot shows the Weka Explorer application window. The 'Classify' tab is selected. The classifier chosen is 'J48 -C 0.25 -M 2'. The test options are set to 'Use training set'. The target attribute is '(Nom) Bermain\_tenis'. The 'Start' button has been clicked, and the classifier output is displayed on the right.

**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)

23:23:11 - 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
-----

Cuaca = Cerah
|  Kelembaban_udara <= 75: YA (2.0)
|  Kelembaban_udara > 75: TIDAK (3.0)
Cuaca = Mendung: YA (4.0)
Cuaca = Hujan
|  Berangin = YA: TIDAK (2.0)
|  Berangin = TIDAK: YA (3.0)

Number of Leaves  :    5

Size of the tree  :    8

Time taken to build model: 0.03 seconds
```

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)

23:23:11 - trees.J48

Classifier output

Time taken to build model: 0.03 seconds

=== Evaluation on training set ===

Time taken to test model on training data: 0 seconds

=== Summary ===

Correctly Classified Instances	14	100	%
Incorrectly Classified Instances	0	0	%
Kappa statistic	1		
Mean absolute error	0		
Root mean squared error	0		
Relative absolute error	0	%	
Root relative squared error	0	%	
Coverage of cases (0.95 level)	100	%	
Mean rel. region size (0.95 level)	50	%	
Total Number of Instances	14		

=== Detailed Accuracy By Class ===

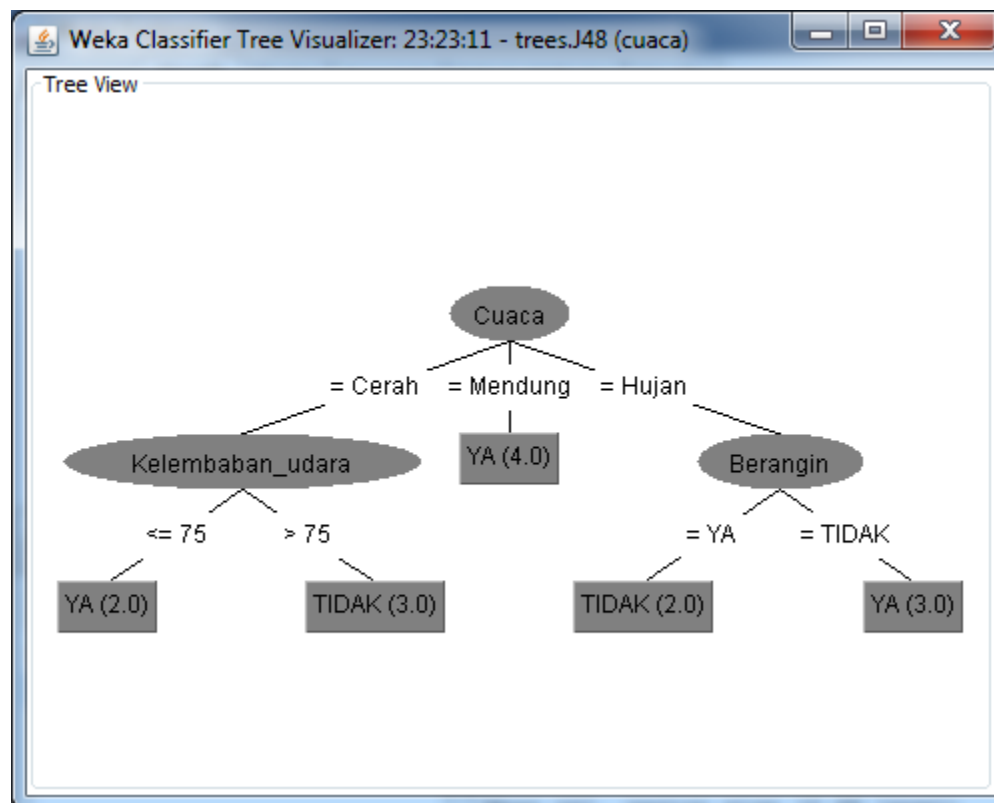
	TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class
	1.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	YA
	1.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	TIDAK
Weighted Avg.	1.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	

=== Confusion Matrix ===

```

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

```



<new process\*> - RapidMiner Studio Free 9.3.001 @ LABSI-07-PC

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators...etc All Studio

**Repository**

- Import Data
- DB (Legacy)
- Local Repository (LABSI-07)
  - Connections (LABSI-07)
  - data (LABSI-07)
  - processes (LABSI-07)
  - DataCuaca\_Training
  - dataCuacaTraining

**Operators**

cross vali

Validation (1)

- Cross Validation

No results were found.

**Process**

Process

100%

Retrieve dataCuacaT... Cross Validation

Process

logverbosity init

logfile

resultfile

random seed 2001

send mail never

[Hide advanced parameters](#)

[Change compatibility \(9.3.001\)](#)

**Help**

**Process**

RapidMiner Studio Core

**Synopsis**

The root operator which is the outer most operator of every process.

Leverage the Wisdom of Crowds to get operator recommendations based on your process design!

[Activate Wisdom of Crowds](#)

<new process\*> - RapidMiner Studio Free 9.3.001 @ LABSI-07-PC

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  - dataCuacaTraining (LABSI-07)

**Operators**

performance

Performance (1/7)

Predictive (7)

- Performance (Classification)
- Performance (Binominal Clas
- Performance (Regression)
- Performance (Costs)
- Performance (Ranking)

We found "Model Management" in the Marketplace. [Show me!](#)

**Process**

Process > Cross Validation

100%

Training Testing

Decision Tree Apply Model Performance

Process

criterion information\_gain

maximal depth 10

☒ apply pruning

confidence 0.1

☒ apply prepruning

minimal gain 0.01

minimal leaf size

[Hide advanced parameters](#)

**Help**

**Decision Tree**

Concurrency

Tags: Supervised, Classification, Regression, Model, Trees

**Synopsis**

This Operator generates a decision tree model, which can be used for classification and regression.

[Jump to Tutorial Process](#)

Leverage the Wisdom of Crowds to get operator recommendations based on your process design!

[Activate Wisdom of Crowds](#)

<new process\*> - RapidMiner Studio Free 9.3.001 @ LABSI-07-PC

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

ExampleSet (/Local Repository/dataCuacaTraining) ExampleSet (/Local Repository/DataCuaca\_Training)

Result History PerformanceVector (Performance) Tree (Decision Tree)

Criterion accuracy

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%	

Performance

Description

Annotations

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Find data, operators, etc. All Studio

ExampleSet (/Local Repository/dataCuacaTraining) ExampleSet (/Local Repository/DataCuaca\_Training)

Result History PerformanceVector (Performance) Tree (Decision Tree)

Zoom

Tree

Node Labels

Edge Labels

Cuaca

Cerah Hujan Mendung

Kelembaban\_udara Berangin

> 77.500 & 77.500

TIDAK YA TIDAK YA TIDAK

Graph

Description

Annotations

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