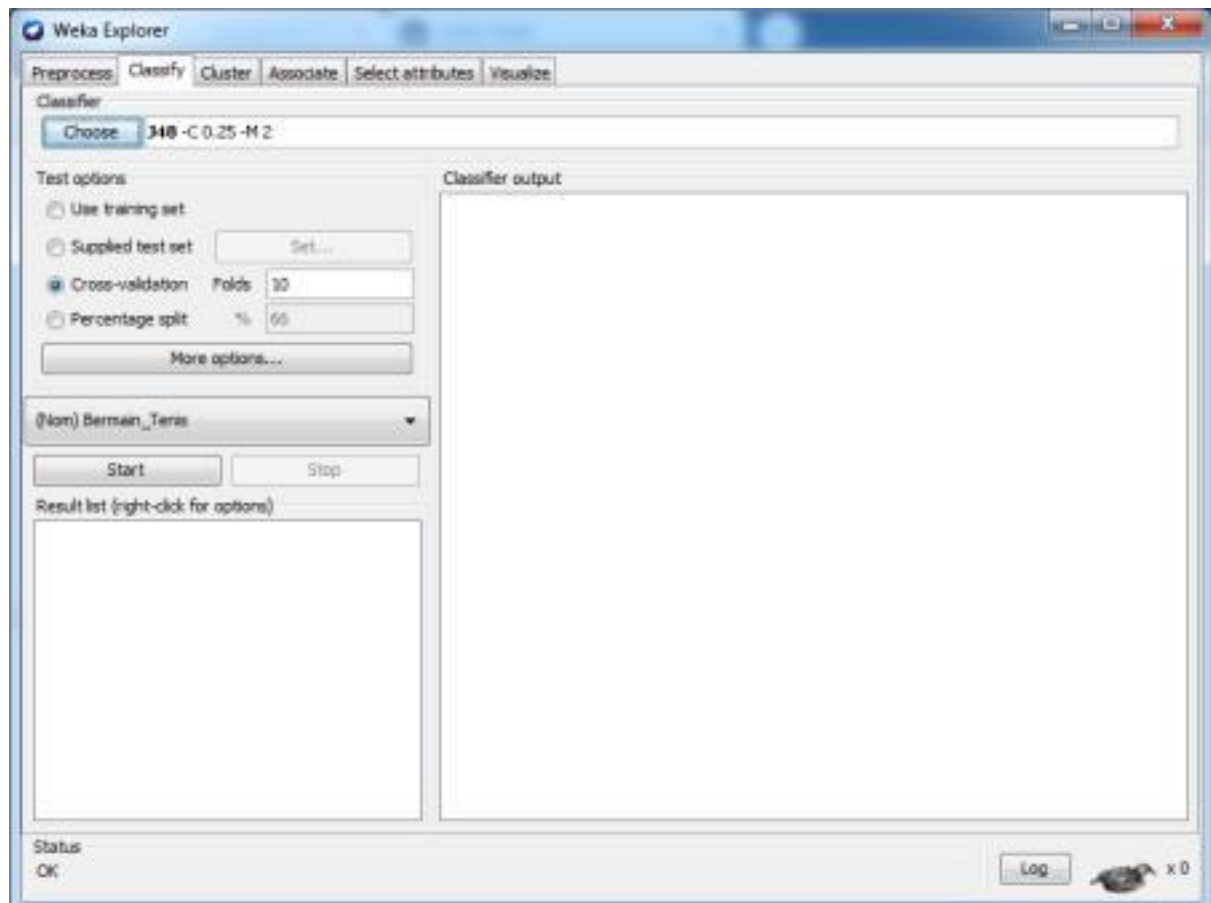


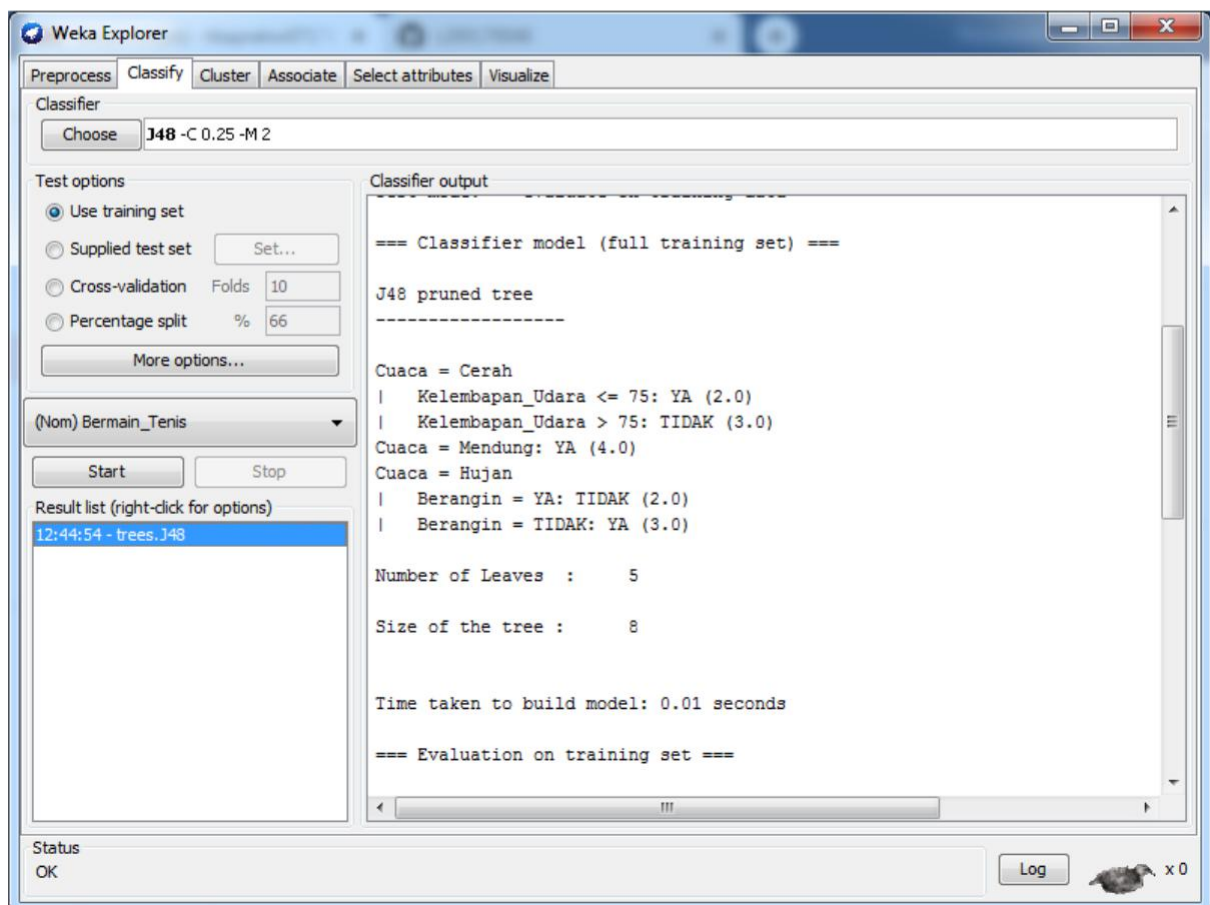
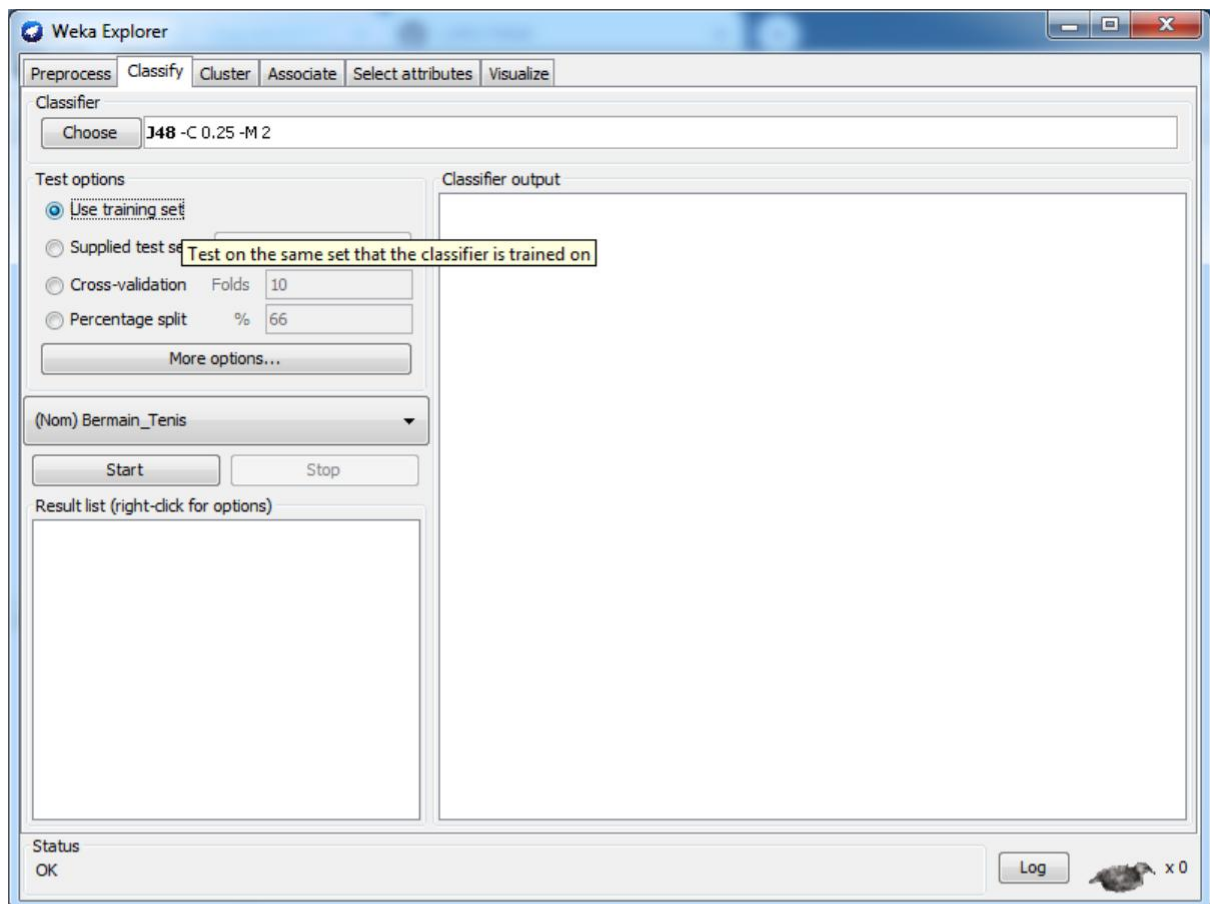
Nama : Avifah hasna

NIM : L200170072

Kelas : C

PERCOBAAN





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)
 12:44:54 - trees.J48

Classifier output

```

=== 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
1,000    0,000    1,000    1,000    1,000    1,000
1,000    0,000    1,000    1,000    1,000    1,000
Weighted Avg.  1,000    0,000    1,000    1,000    1,000    1,000

=== Confusion Matrix ===

```

Status
OK

Log x 0

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)
 12:44:54 - trees.J48

Classifier output

```

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
1,000    0,000    1,000    1,000    1,000    1,000
1,000    0,000    1,000    1,000    1,000    1,000
Weighted Avg.  1,000    0,000    1,000    1,000    1,000    1,000

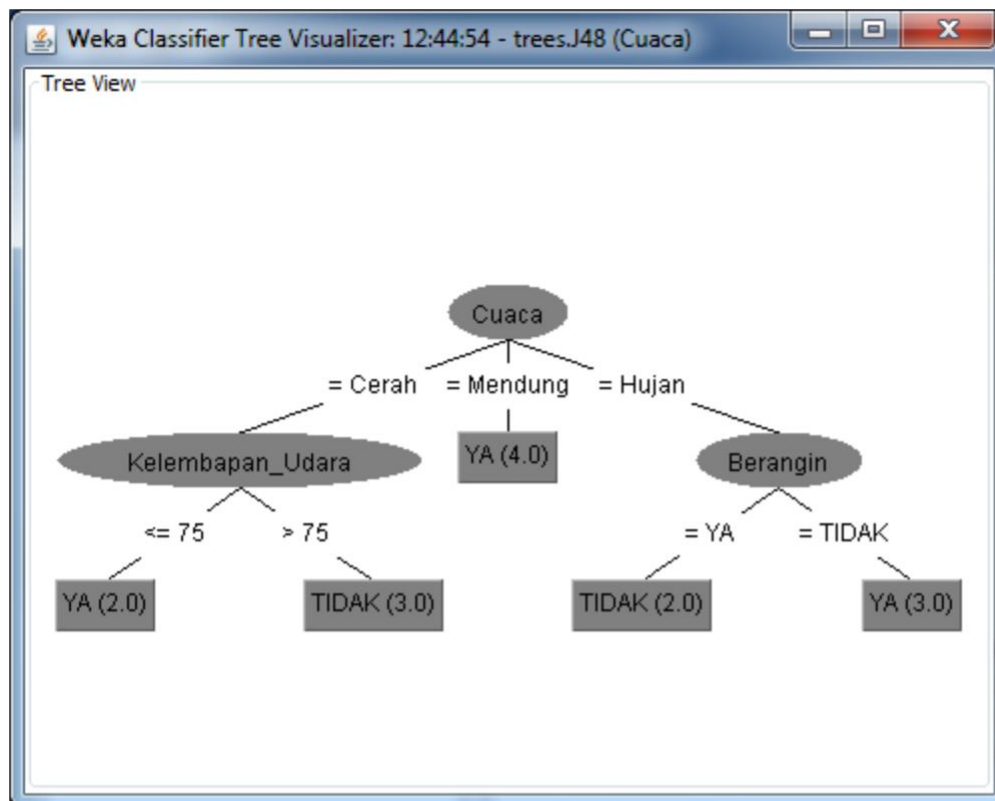
=== Confusion Matrix ===

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

```

Status
OK

Log x 0



Welcome to RapidMiner Studio!

Start Recent Learn

Start a new project

Blank
Start a new process from scratch in the design view.

Turbo Prep
Prepare your data interactively: transform, clean and combine data sets.

Auto Model
Build and optimize models using automated machine learning.

Choose a template to start from

Churn Modeling
Predict which of your customers will churn and why with a decision tree.

Direct Marketing
Predict response to campaigns and increase the conversion rate of your campaign.

Credit Risk Modeling
Model credit default risk by training an optimized Support Vector Machine (SVM) model.

Market Basket Analysis
Find products frequently purchased together and turn them into rules for recommendations.

Predictive Maintenance
Model equipment failures to schedule maintenance pre-emptively.

Price Risk Clustering
Cluster price developments using X-Means to unveil price-risk-relationships.

Lift Chart
Create a lift chart to visualize the improvement that a model provides compared to guessing.

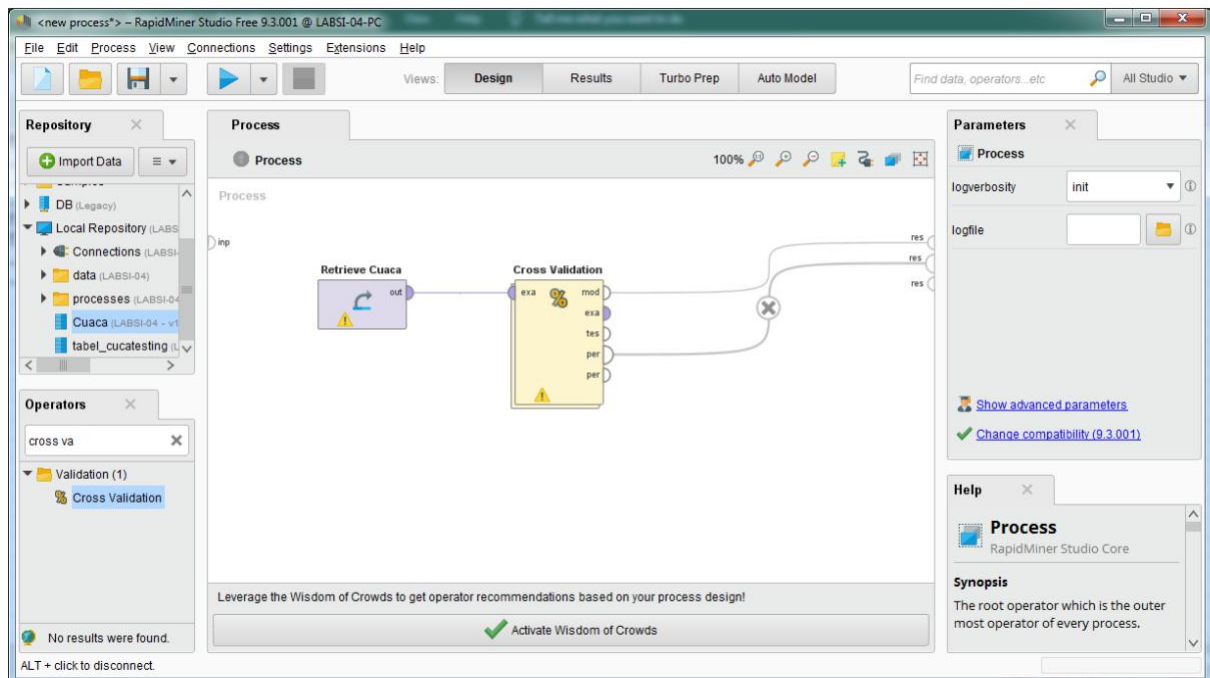
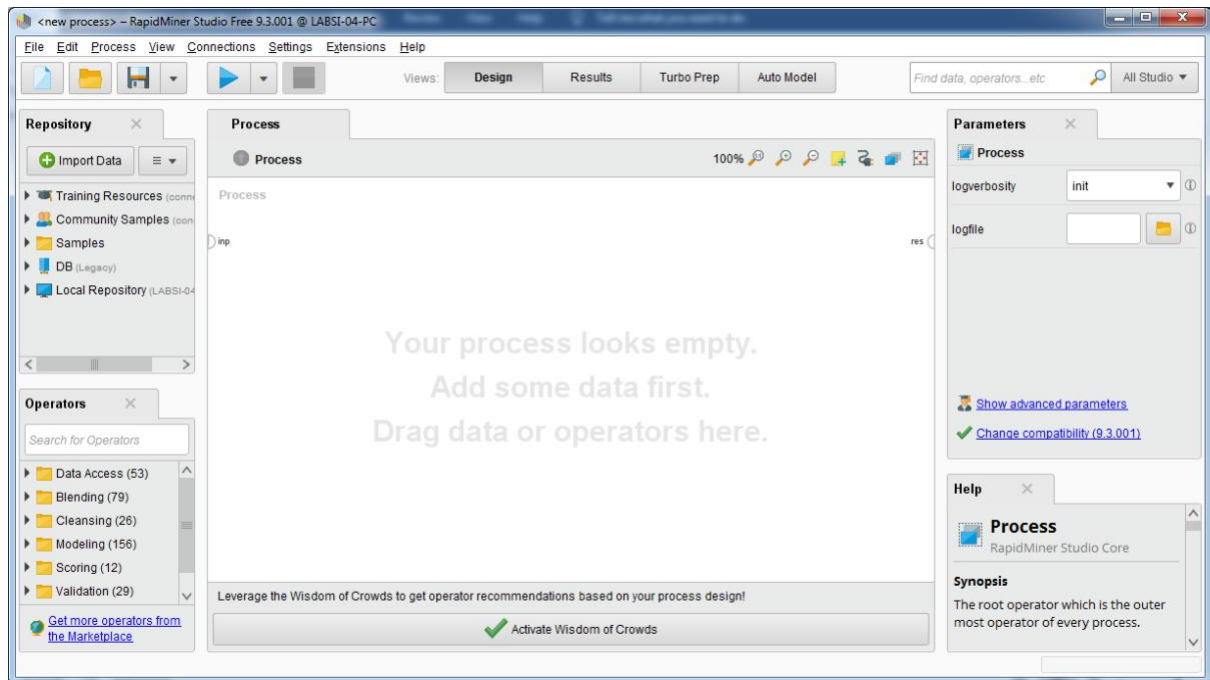
Operationalization
Embed predictive models into business processes to trigger the right actions automatically.

Outlier Detection
Detect anomalies in data resulting from a chemical analysis of wines.

Geographic Distances

Medical Fraud Detection

Web Analytics



<new process> - RapidMiner Studio Free 9.3.001 @ LABSI-04-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-04)
 - Connections (LABSI-04)
 - data (LABSI-04)
 - processes (LABSI-04)
 - Cuaca (LABSI-04 - v1)
 - tabel_cucatesting (LABSI-04 - v1)

Operators

performance

- Performance (17)
 - Predictive (7)
 - Performance
 - Performance
 - Performance

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

Process

Process Cross Validation 100%

Training Testing

Decision Tree Apply Model Performance

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

Activate Wisdom of Crowds

Parameters

Cross Validation

- ☐ leave one out
- number of folds: 10
- sampling type: automatic

[Show advanced parameters](#)

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

Help

Cross Validation

Concurrency

Tags: Cross-Validations, Cross-validations, Folds, K-Folds, K-folds, Validations, Estimations, Evaluations, Performances, Splitting, X-Validation, X-Prediction, Validation

<new process> - RapidMiner Studio Free 9.3.001 @ LABSI-04-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-04)
 - Connections (LABSI-04)
 - data (LABSI-04)
 - processes (LABSI-04)
 - Cuaca (LABSI-04 - v1)
 - tabel_cucatesting (LABSI-04 - v1)

Operators

performance

- Performance (17)
 - Predictive (7)
 - Performance
 - Performance
 - Performance

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

Process

Process Cross Validation 100%

Training Testing

Decision Tree Apply Model Performance

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

Activate Wisdom of Crowds

Parameters

Decision Tree

- criterion: information_...
- maximal depth: 10
- ☒ apply pruning
- confidence: 0.1
- ☒ apply prepruning
- minimal gain: 0.01

[Hide advanced parameters](#)

Help

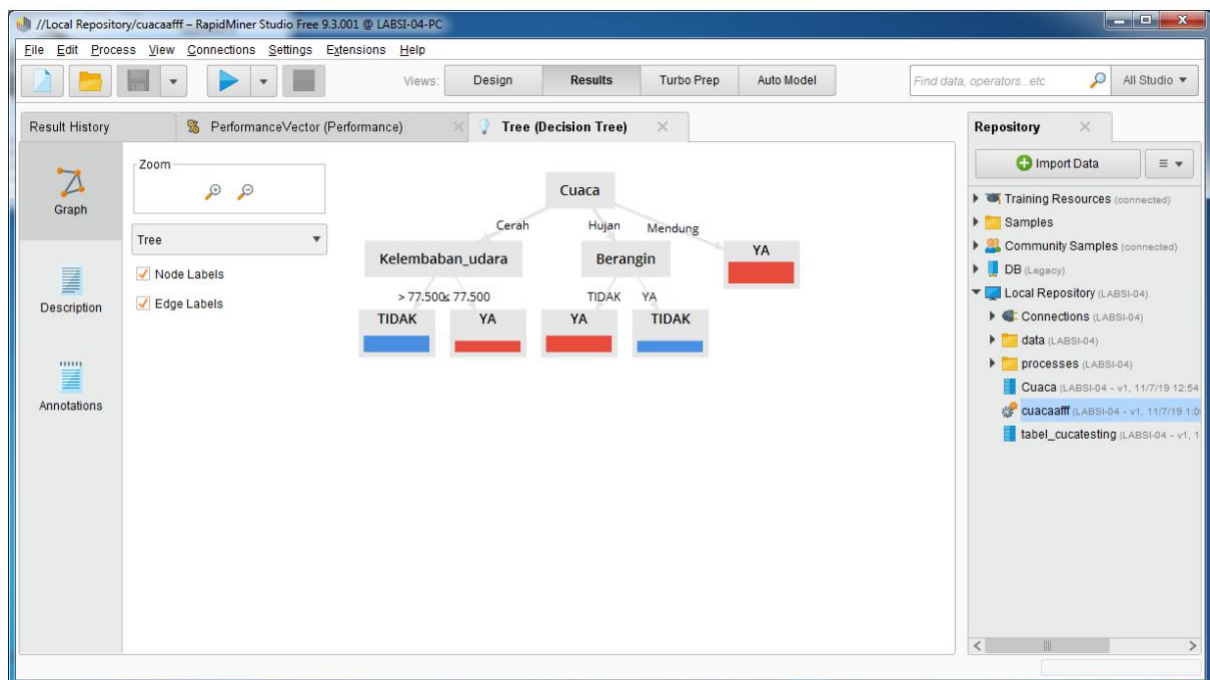
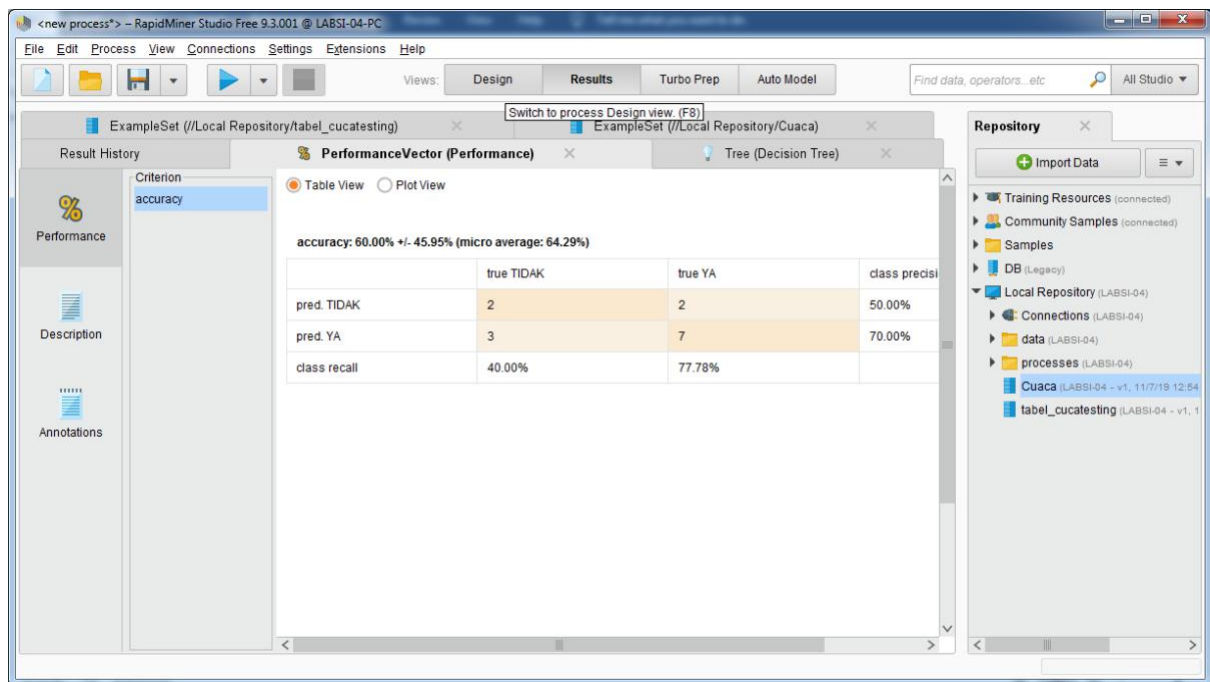
Decision Tree

Concurrency

Tags: Supervised, Classification, Regression, Model, Trees

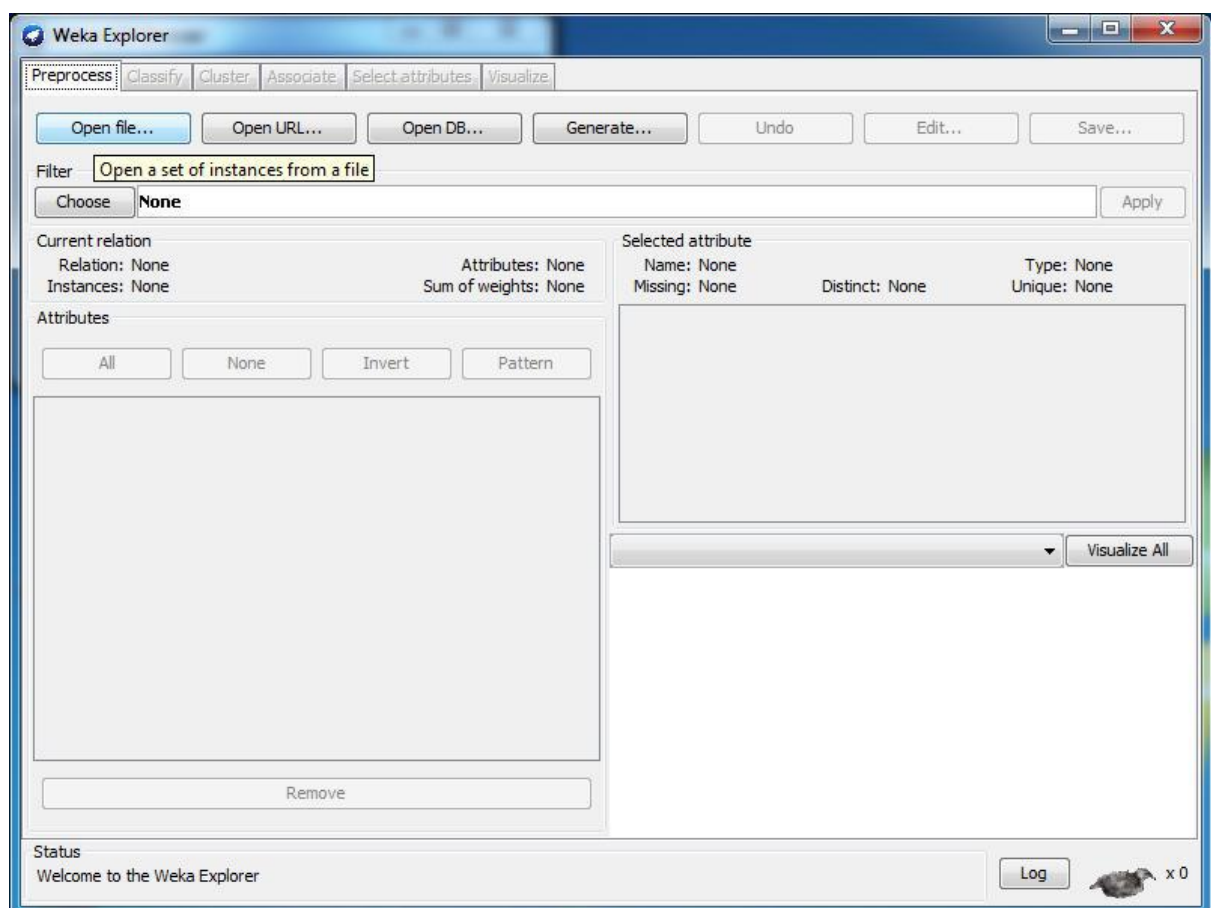
Synopsis

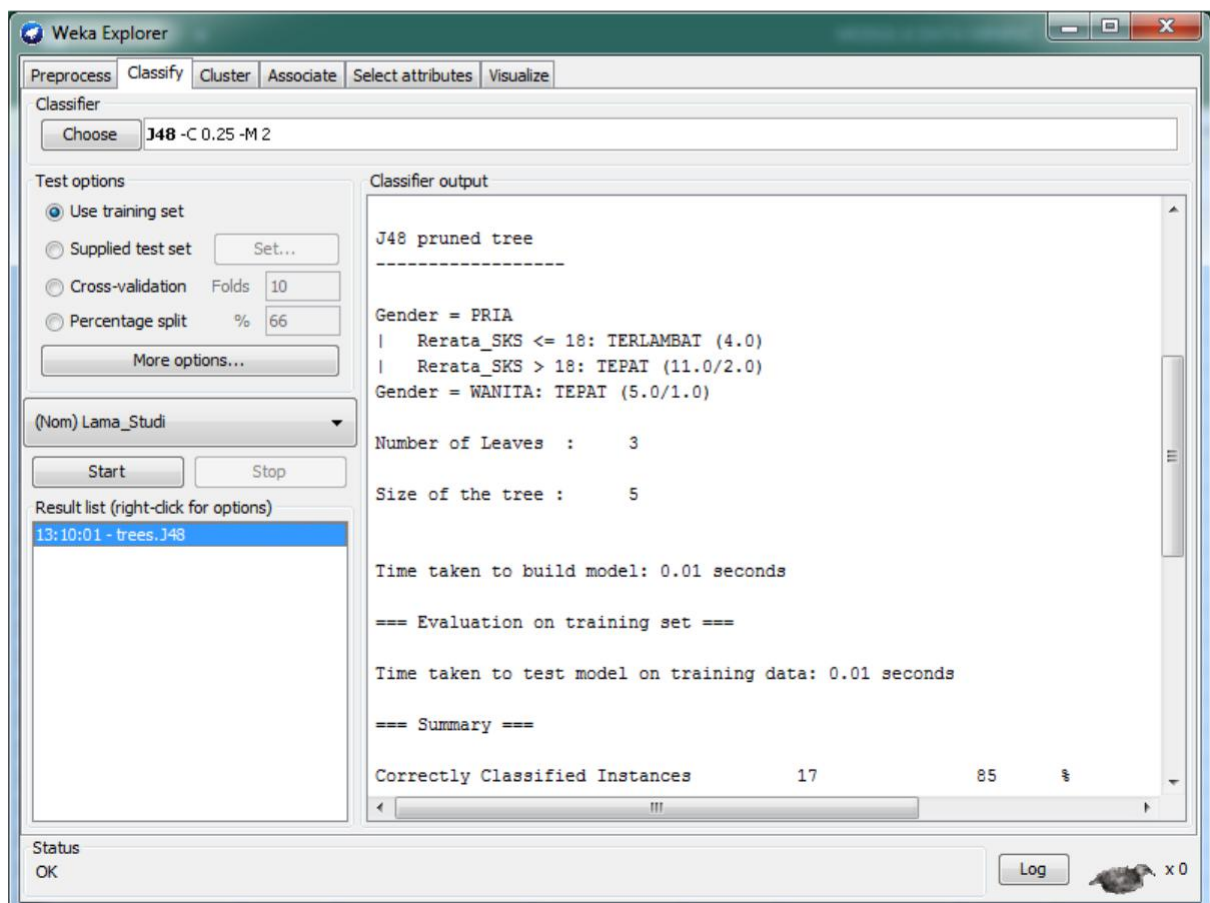
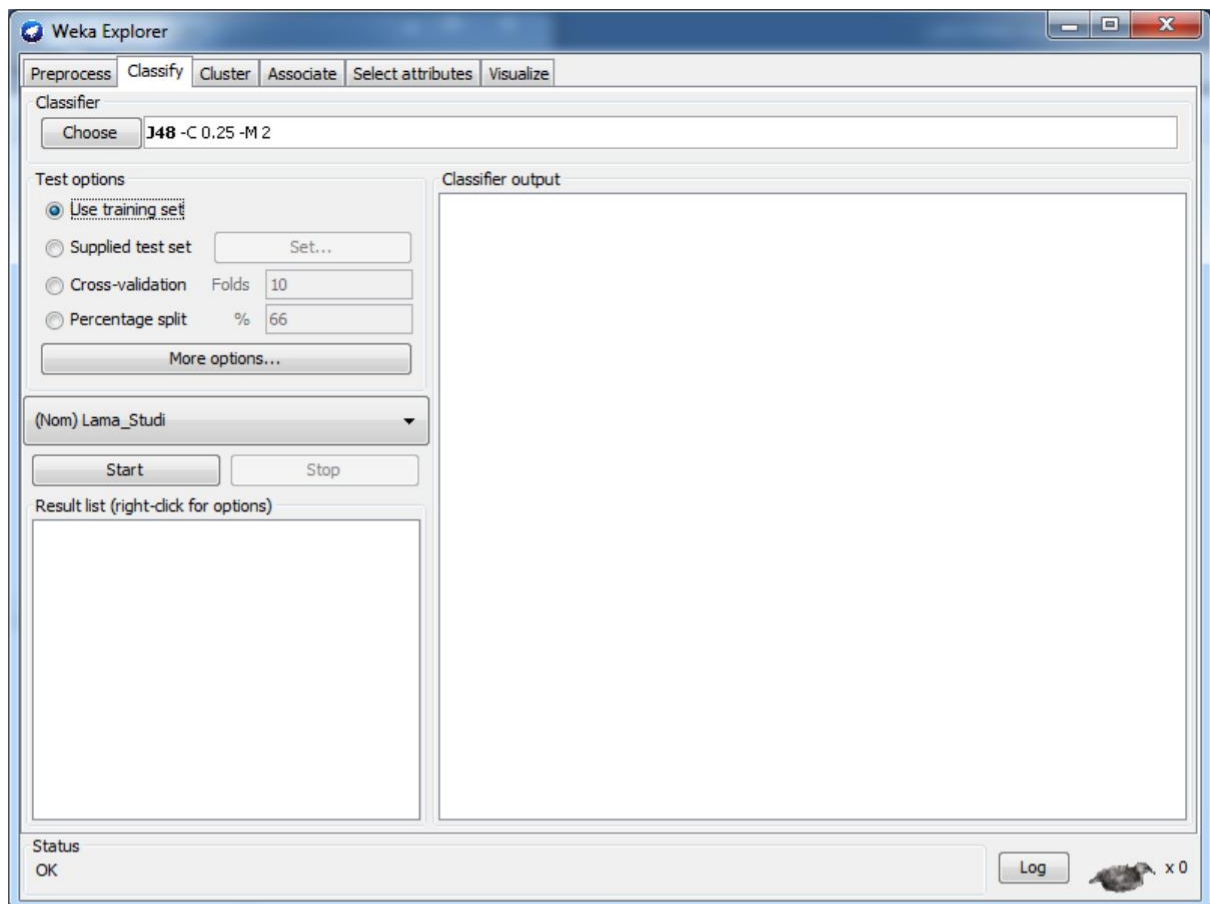
This Operator generates a decision



Tugas

2. a





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) Lama_Studi

Start Stop

Result list (right-click for options)

13:10:01 - trees.J48

Classifier output:

```

Correctly Classified Instances      17      85 %
Incorrectly Classified Instances    3      15 %
Kappa statistic                    0.6341
Mean absolute error                0.2436
Root mean squared error            0.349
Relative absolute error             53.0693 %
Root relative squared error        73.1456 %
Coverage of cases (0.95 level)     100 %
Mean rel. region size (0.95 level) 90 %
Total Number of Instances          20

=== Detailed Accuracy By Class ===


      TP Rate  FP Rate  Precision  Recall   F-Measure  MCC
      0,571    0,000    1,000     0,571    0,727      0,681
      1,000    0,429    0,813     1,000    0,897      0,681
Weighted Avg.  0,850    0,279    0,878     0,850    0,837      0,681

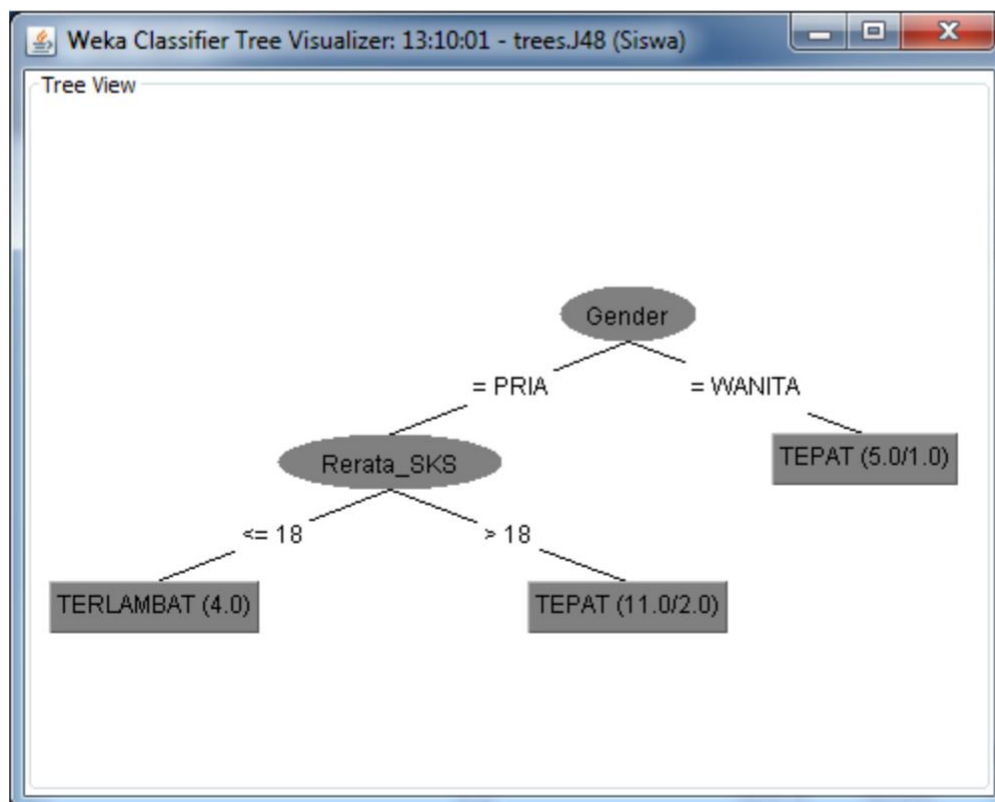
=== Confusion Matrix ===

  a  b  <-- classified as
  4  3  |  a = TERLAMBAT

```

Status: OK

Log  x 0



2. a

The screenshot shows the RapidMiner Studio Free 9.3.001 interface. The main workspace displays a process design with a 'Retrieve MODUL 6 D...' operator connected to a 'Cross Validation' operator. The 'Cross Validation' operator has several output ports labeled 'exa', 'mod', 'tes', and 'per'. The 'Parameters' panel on the right shows the 'Cross Validation' settings, including 'number of folds' set to 10 and 'sampling type' set to 'automatic'. The 'Help' panel on the right provides information about the 'Cross Validation' operator, including its concurrency and tags.

The screenshot shows the RapidMiner Studio Free 9.3.001 interface with a more complex process design. The main workspace displays a process design with a 'Decision Tree' operator connected to an 'Apply Model' operator, which is then connected to a 'Performance' operator. The 'Cross Validation' operator is also present, connected to the 'Apply Model' operator. The 'Parameters' panel on the right shows the 'Cross Validation' settings, including 'number of folds' set to 10 and 'sampling type' set to 'automatic'. The 'Help' panel on the right provides information about the 'Cross Validation' operator, including its concurrency and tags.

<new process> - RapidMiner Studio Free 9.3.001 @ LABSI-04-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
- Connections (LABSI-04)
- data (LABSI-04)
- processes (LABSI-04)
 - Cuaca (LABSI-04 - v1)
 - cuacaaff (LABSI-04 - v1)
 - MODUL 6 DATA MINING (LABSI-04 - v1)
 - tabel_cucatesting (LABSI-04 - v1)

Operators

performance

- Validation (19)
 - Performance (17)
 - Predictive (7)
 - Performance

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

Process

Process: A connected set of Operators that help you to transform and analyze your data. Also known as: flow, program, pipeline, diagram

Process

Retrieve MODUL 6 D... Cross Validation

res res res

Parameters

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-04-PC

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

Result History

ExampleSet (/Local Repository/MODUL 6 DATA MINING)

PerformanceVector (Performance)

Tree (Decision Tree)

Table View Plot View

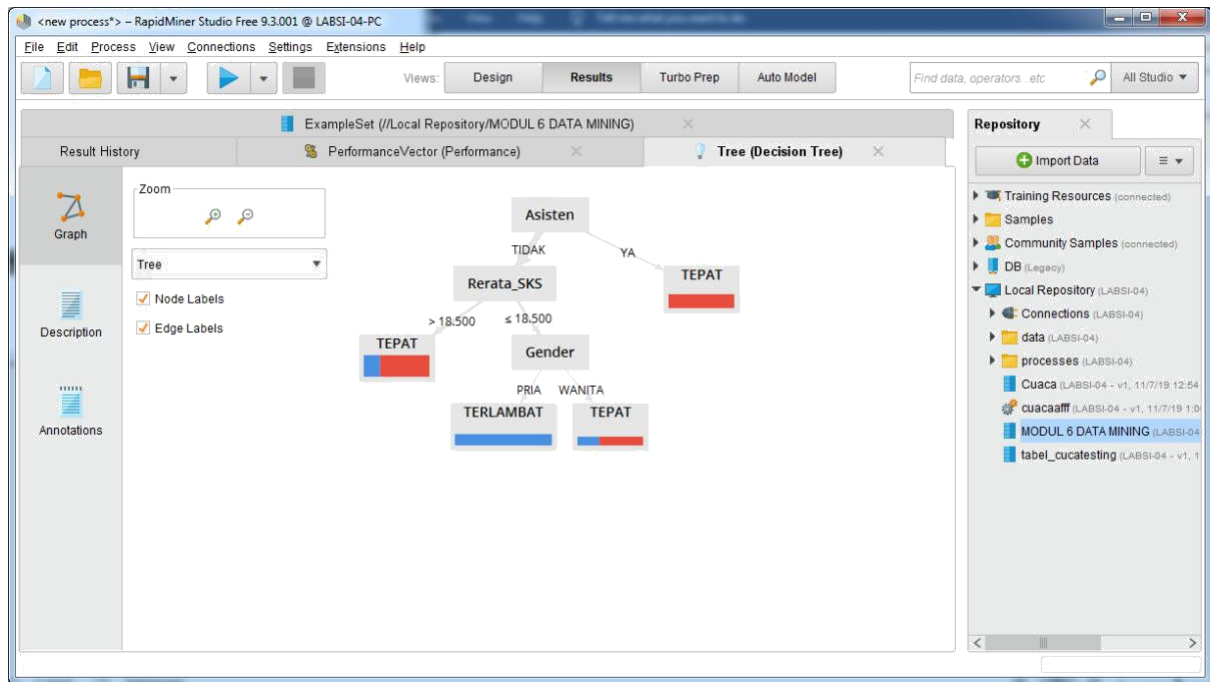
Criterion accuracy

accuracy: 60.00% +/- 21.08% (micro average: 60.00%)

	true TERLAMBAT	true TEPAT	class precision
pred. TERLAMBAT	4	5	44.44%
pred. TEPAT	3	8	72.73%
class recall	57.14%	61.54%	

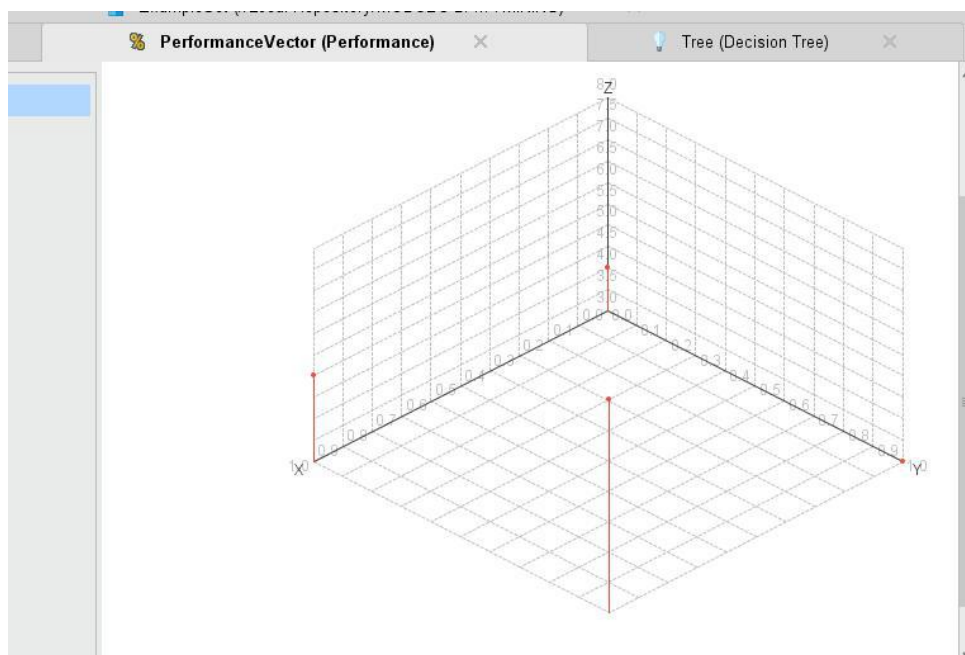
Repository

- Import Data
- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB (Legacy)
- Local Repository (LABSI-04)
 - Connections (LABSI-04)
 - data (LABSI-04)
 - processes (LABSI-04)
 - Cuaca (LABSI-04 - v1, 11/7/19 12:54)
 - cuacaaff (LABSI-04 - v1, 11/7/19 1:0)
 - MODUL 6 DATA MINING (LABSI-04 - v1, 11/7/19 1:0)
 - tabel_cucatesting (LABSI-04 - v1, 11/7/19 1:0)



2. b. i. Jumlah simpul daun pada pohon keputusan = 3
- b. ii. Jumlah simpul keseluruhan pada pohon keputusan = 5
- b. iii. Waktu yang dibutuhkan untuk proses pelatihan = 0 detik
- b. iv. Tingkat ketepatan klasifikasi = 85%
- b. v. Tingkat ketidaktepatan klasifikasi = 15%

3. b



4. c. Klasifikasi yang terbentuk yaitu:

a. seseorang akan bermain (TEPAT) jika kondisi sebagai berikut:

- i. Gender = pria, rerata_sks >18,5. (nilai atribut lain diabaikan)
- ii. Gender=wanita <=18,5. (nilai atribut lain diabaikan)

b. seseorang akan bermain (TERLAMBAT) jika kondisi sebagai berikut:

i. Gender=pria, rerata_sks $\leq 18,5$. (nilai atribut lain diabaikan)