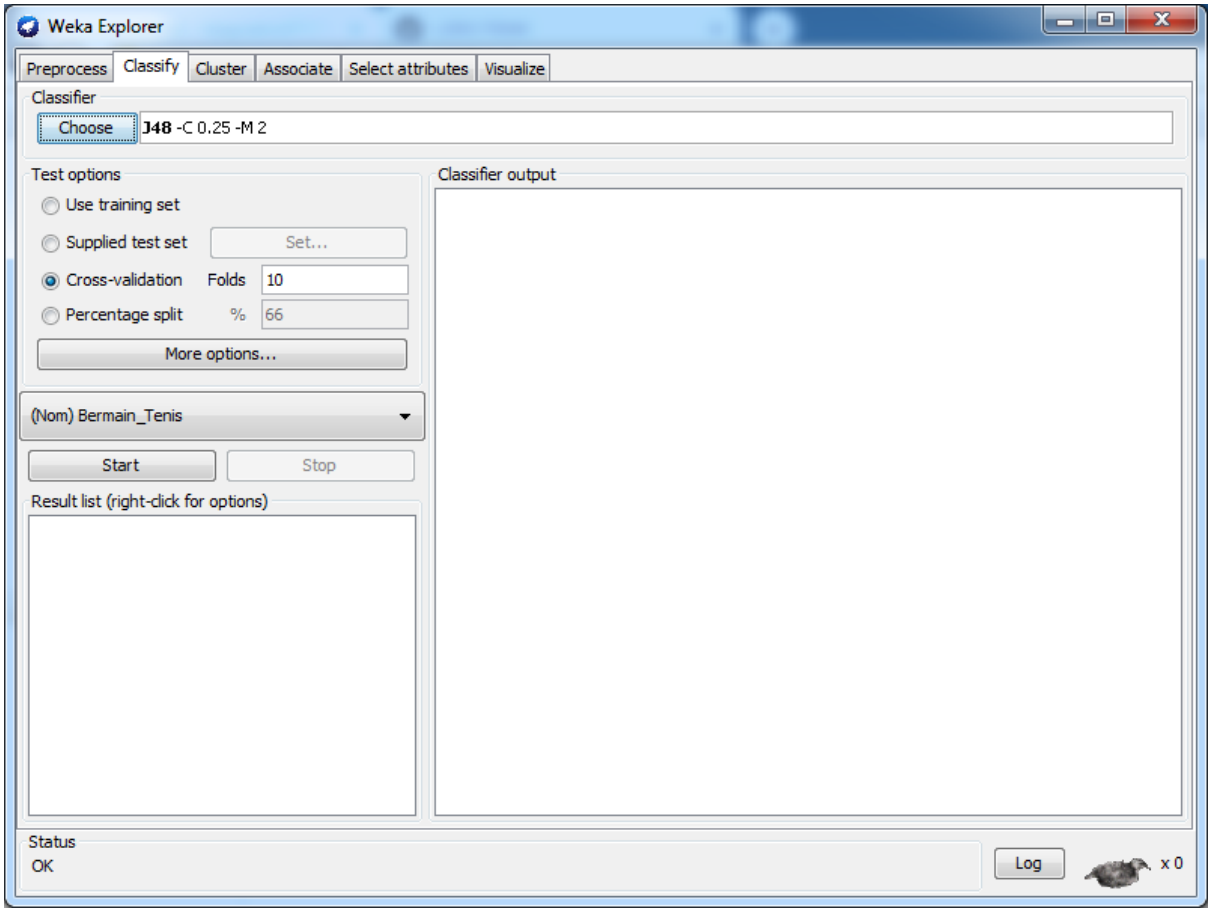
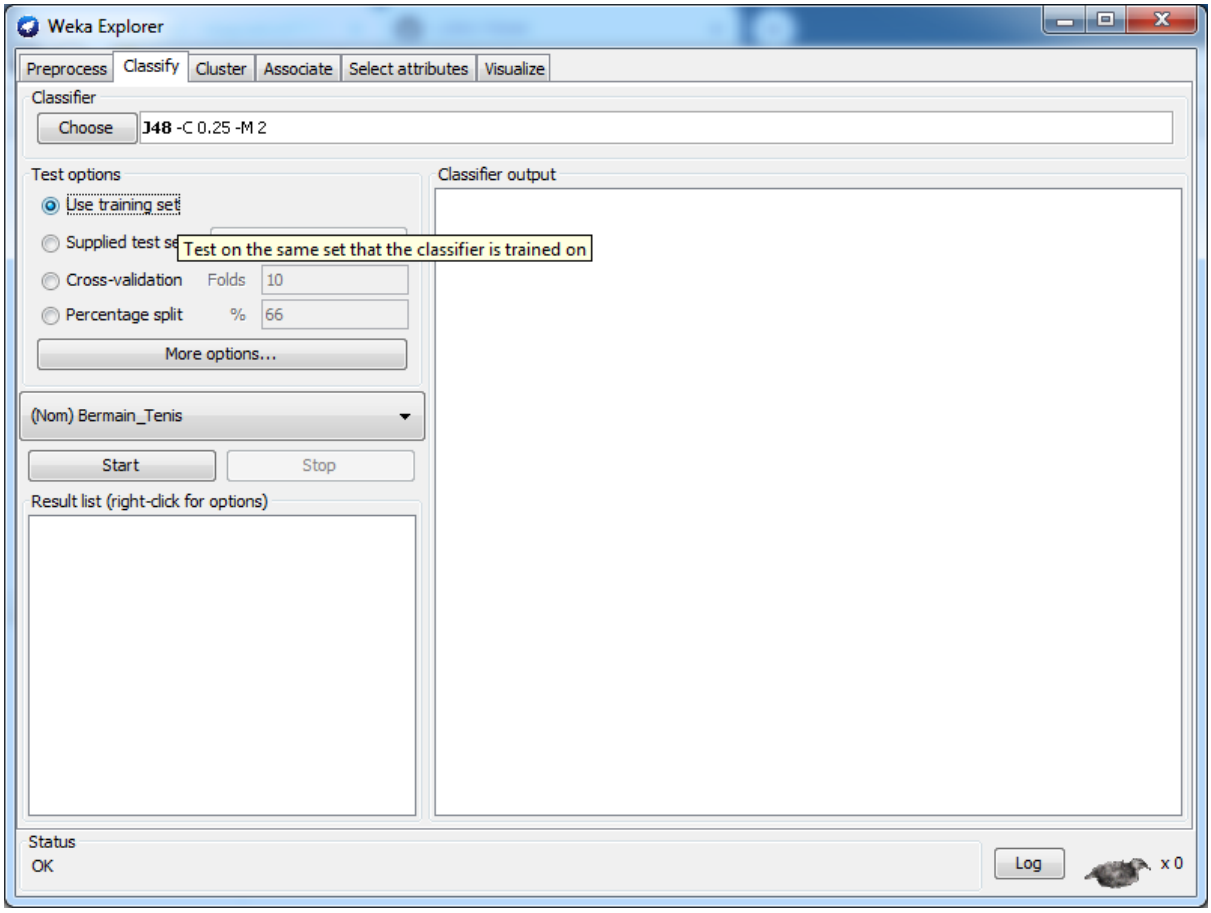
Nama : Tika Pratiwi

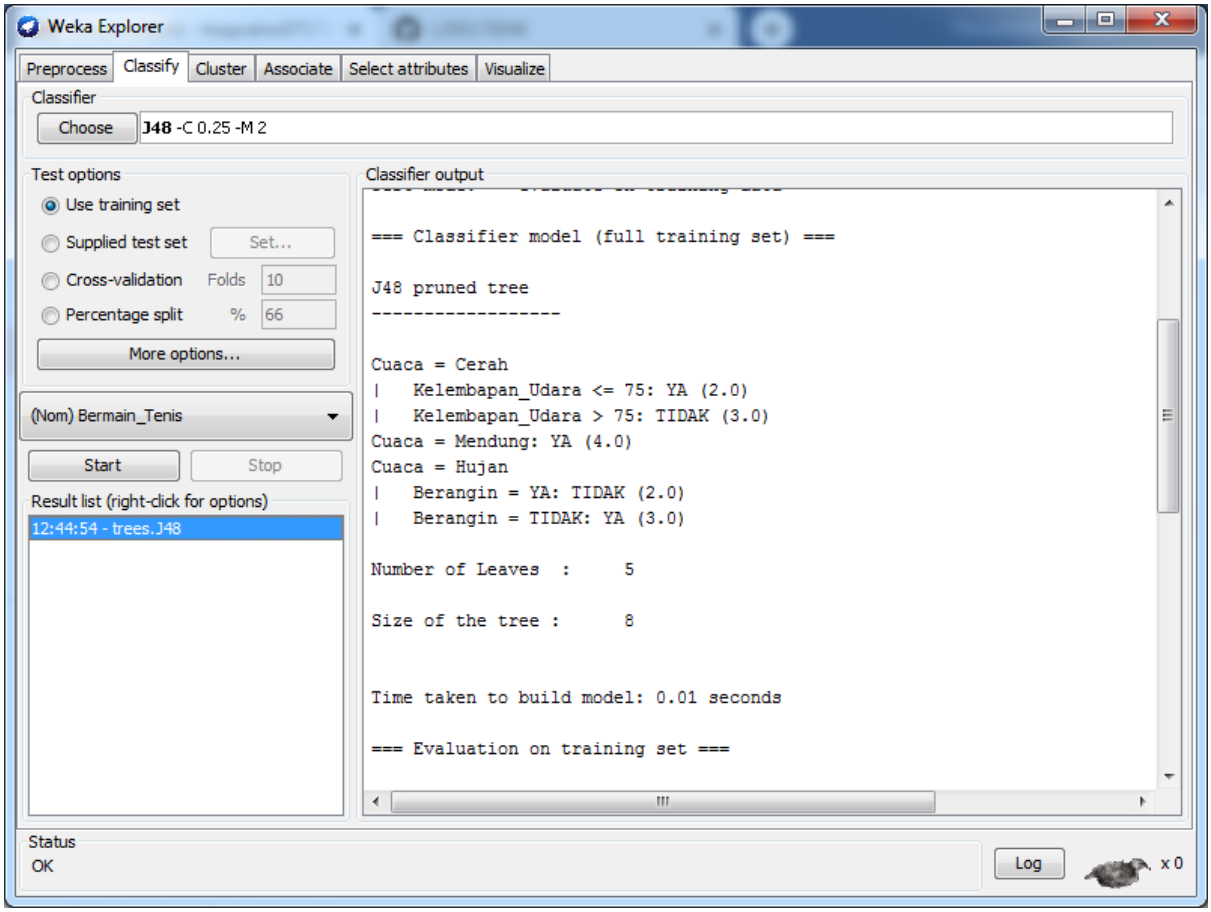
NIM : L200170046

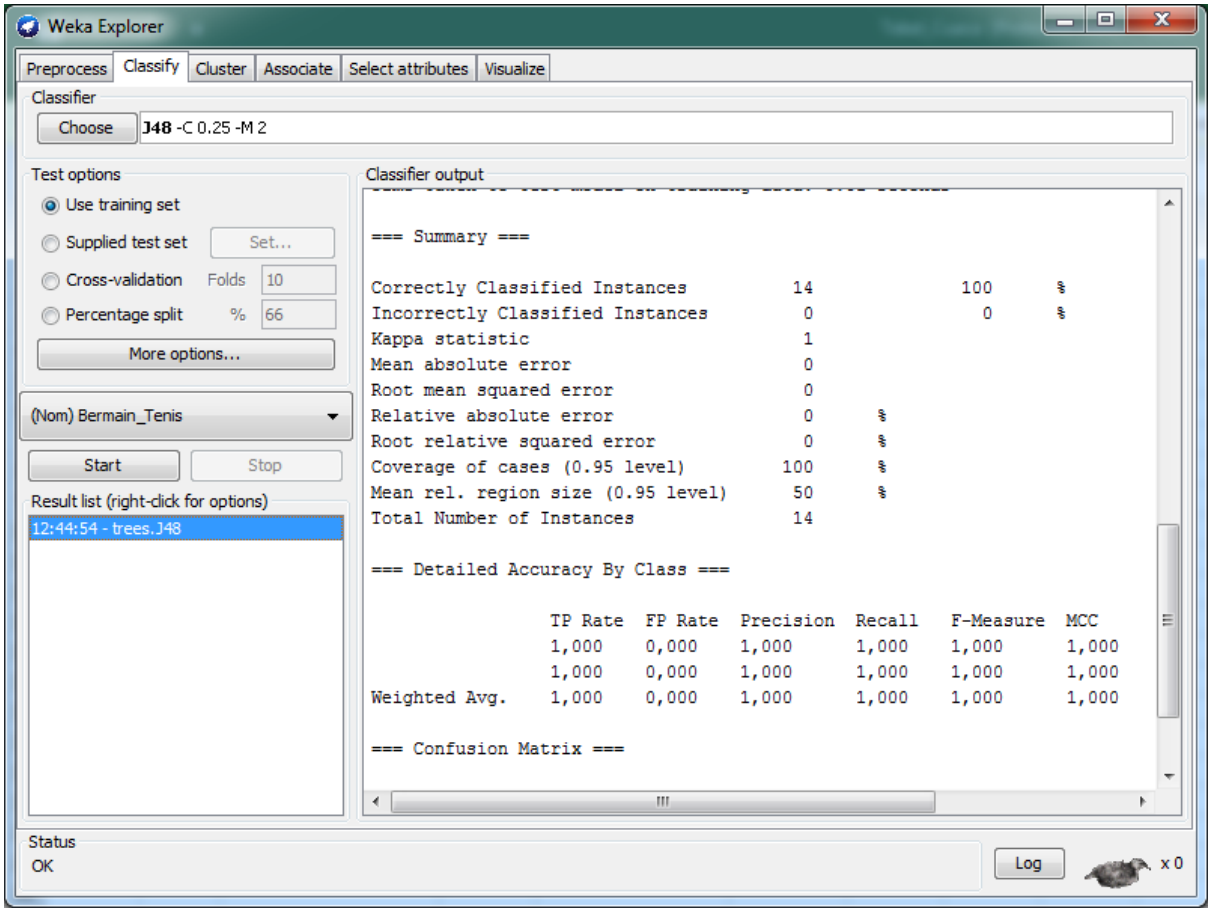
Kelas : C

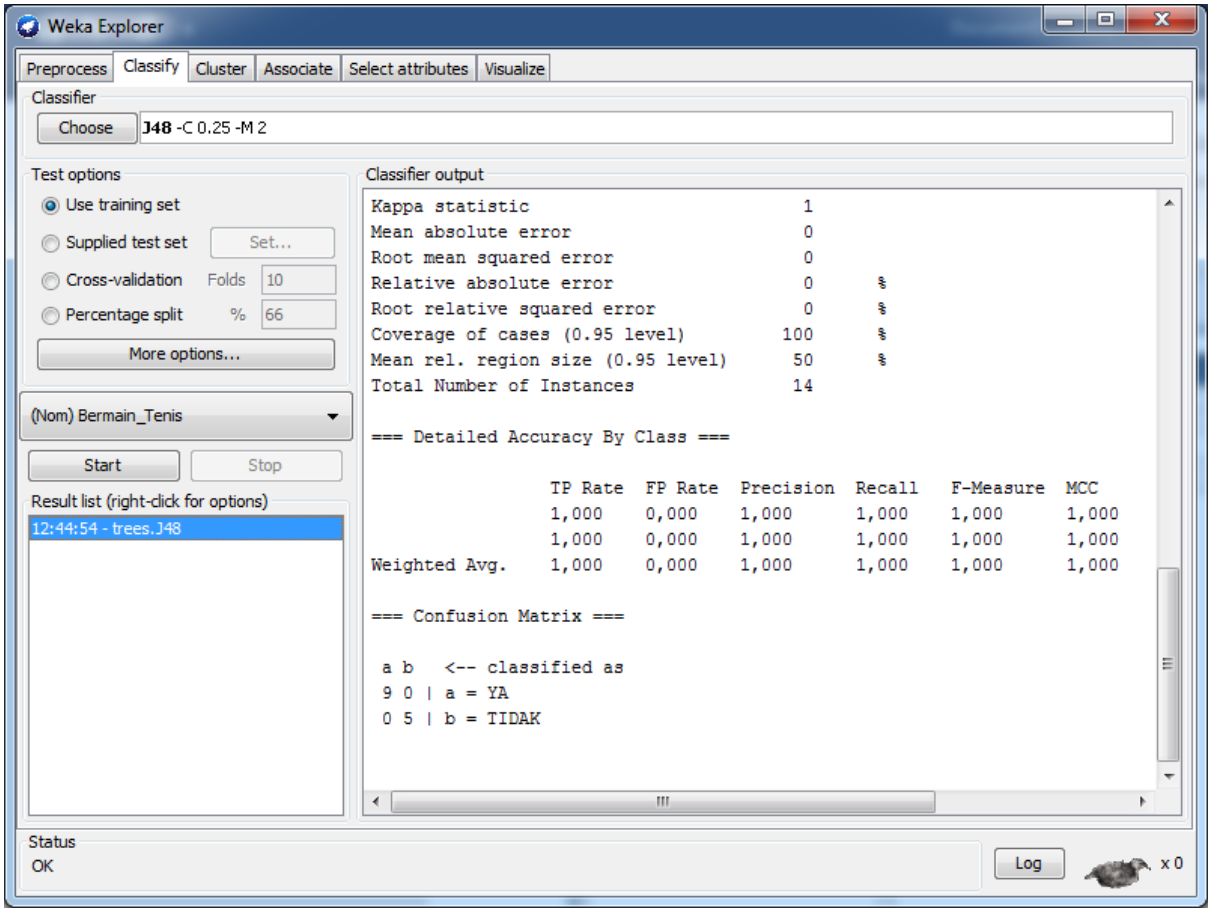
PERCOBAAN

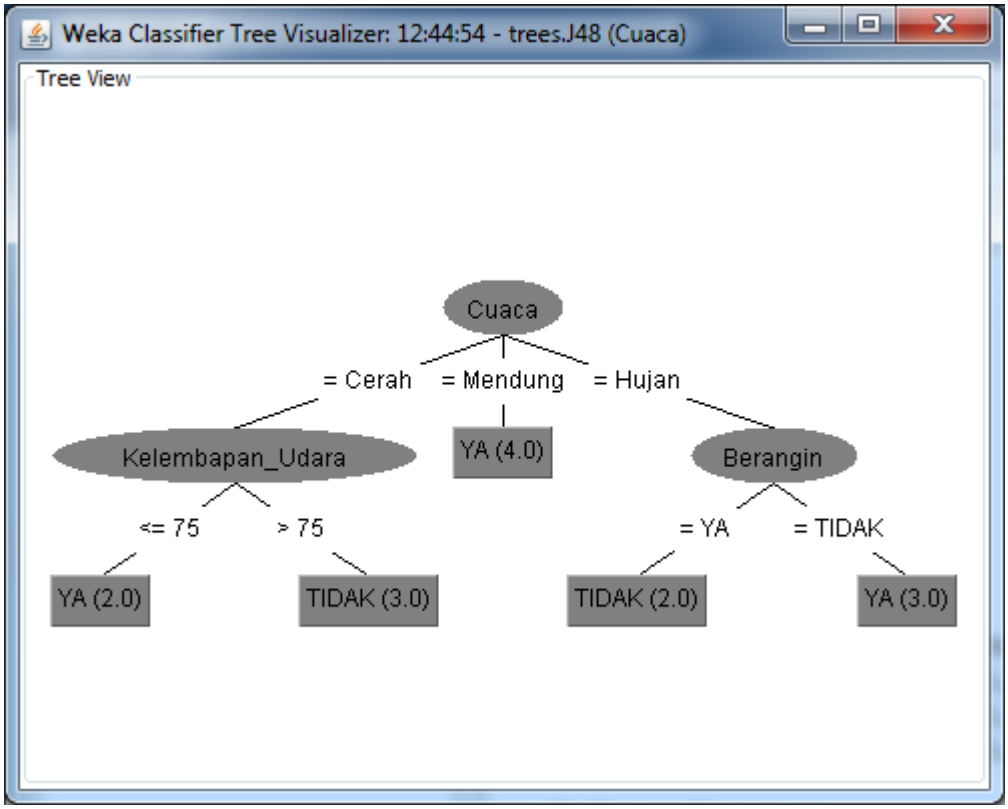


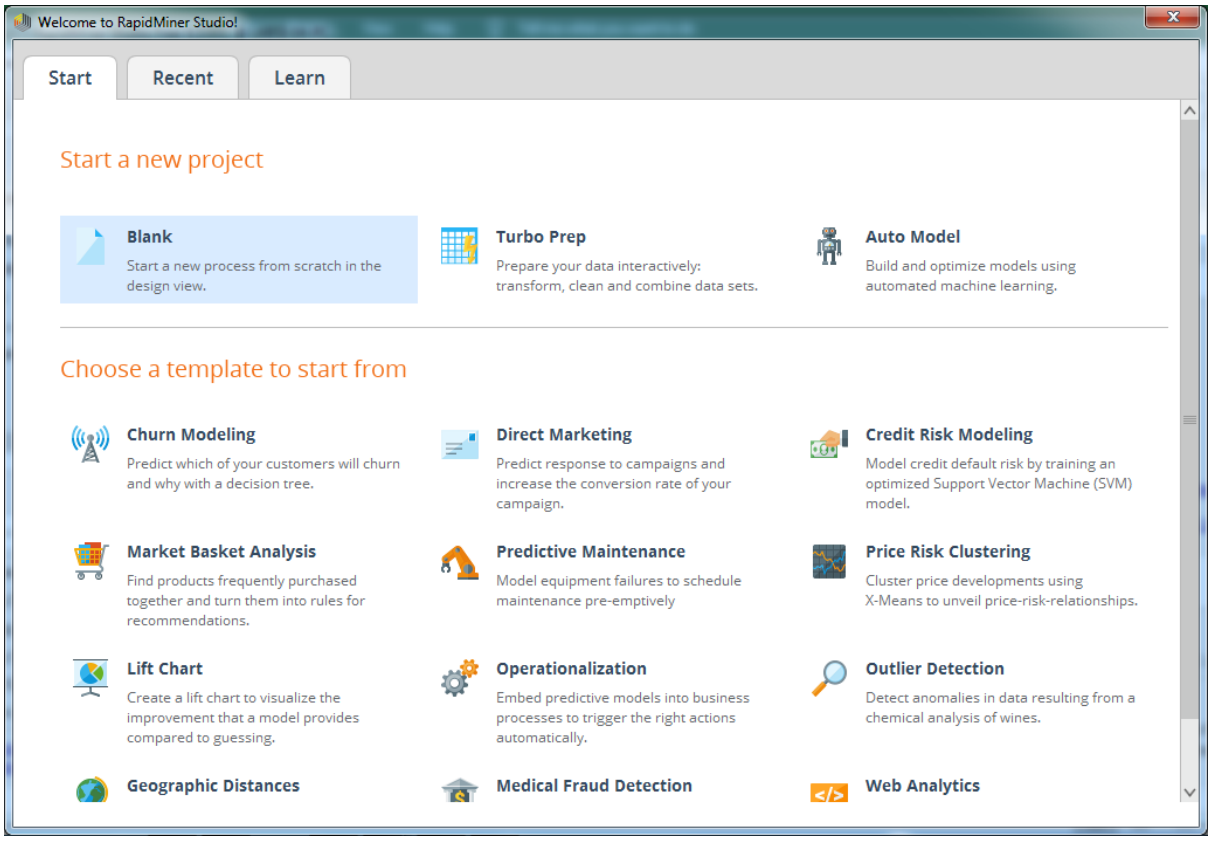

Weka Explorer
Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Classifier
Choose
J48 -C 0.25 -M 2
Test options
Use training set
Supplied test set
Test on the same set that the classifier is trained on
Cross-validation
Folds
10
Percentage split
%
66
More options...
Classifier output
(Nom) Bermain_Tenis
Start
Stop
Result list (right-click for options)
Status
OK
Log
x 0

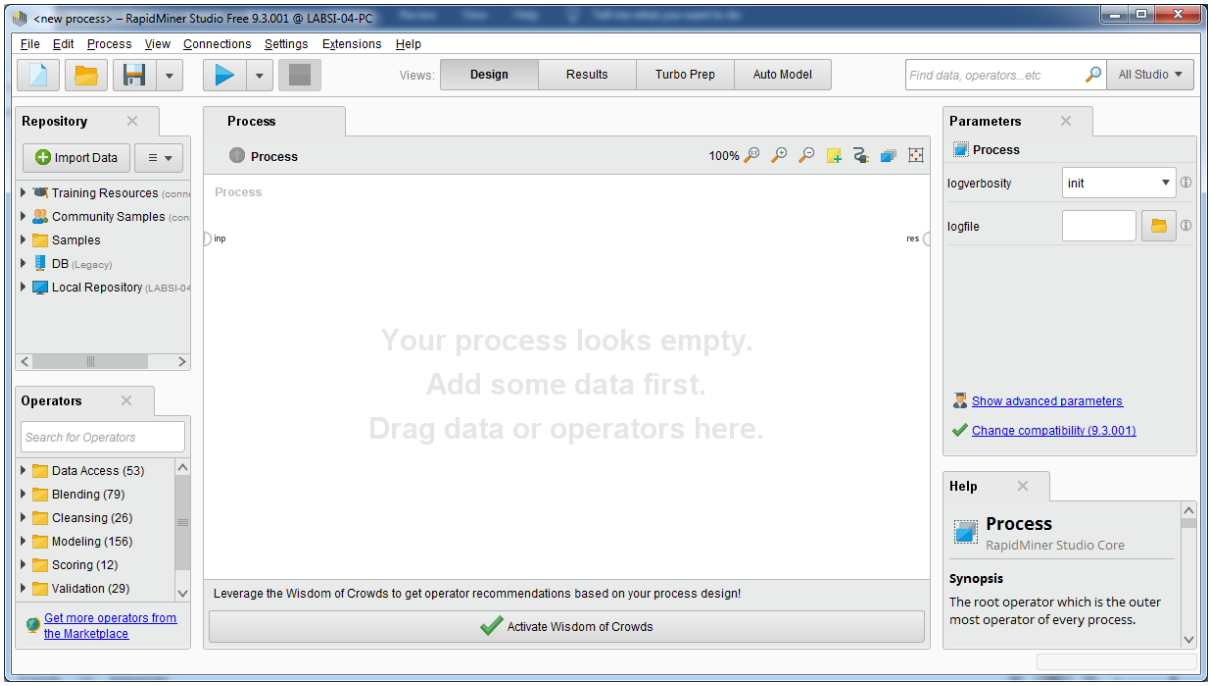

Weka Explorer
Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Classifier
Choose
J48 -C 0.25 -M 2
Test options
Use training set
Supplied test set
Set...
Cross-validation
Folds
10
Percentage split
%
66
More options...
Classifier output
=== Classifier model (full training set) ===
J48 pruned tree
Cuaca = Cerah
| Kelembapan_Udara <= 75: YA (2.0)
| Kelembapan_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: 0.01 seconds
=== Evaluation on training set ===
(Nom) Bermain_Tenis
Start
Stop
Result list (right-click for options)
12:44:54 - trees.J48
Status
OK
Log
x 0

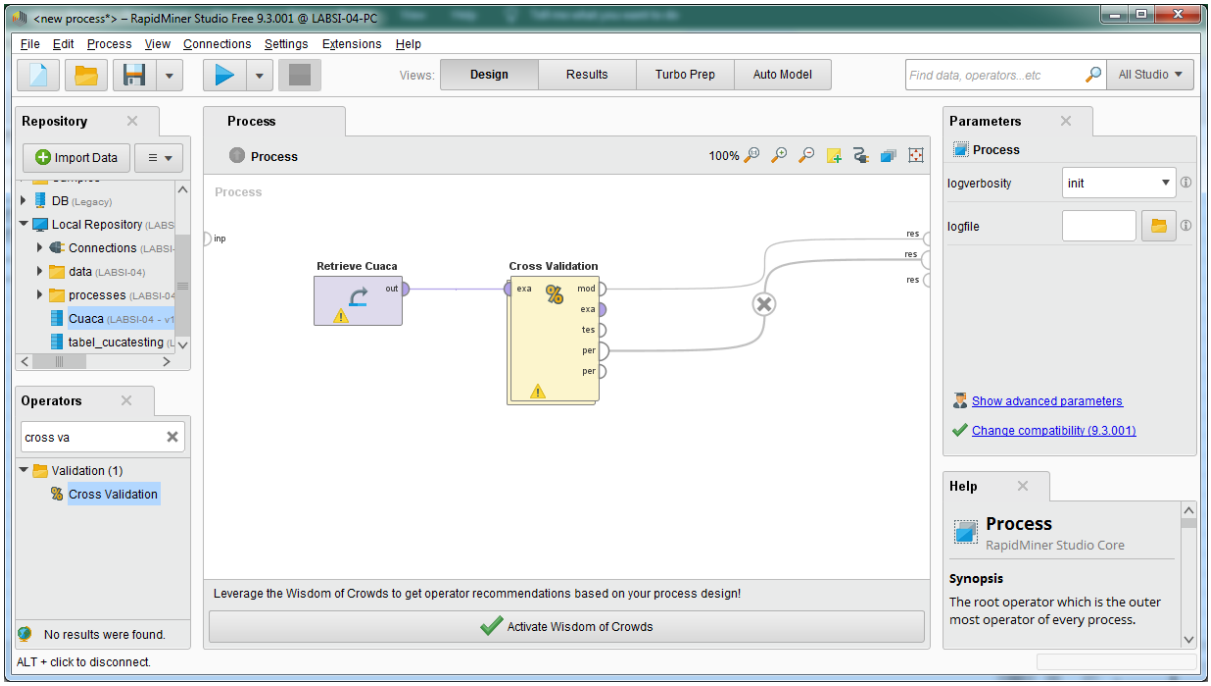

Weka Explorer
Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Classifier
Choose
J48 -C 0.25 -M 2
Test options
Use training set
Supplied test set
Set...
Cross-validation
Folds
10
Percentage split
%
66
More options...
(Nom) Bermain_Tenis
Start
Stop
Result list (right-click for options)
12:44:54 - trees.J48
Classifier output
=== 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

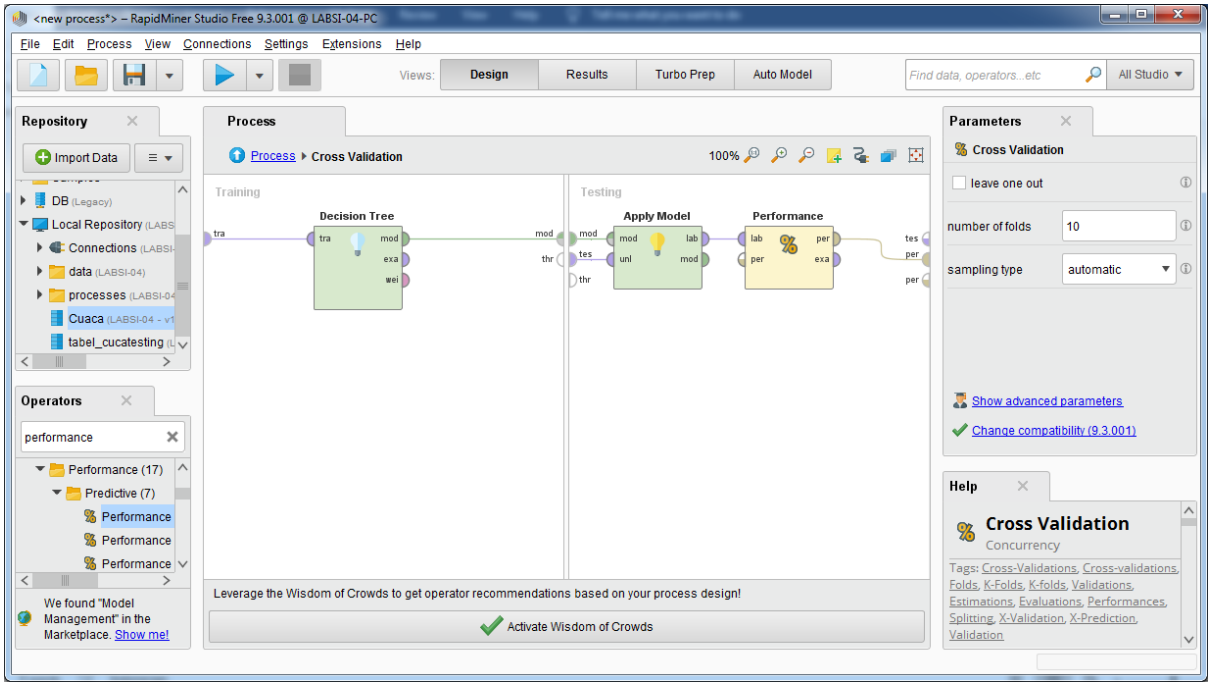

Weka Explorer
Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Classifier
Choose
J48 -C 0.25 -M 2
Test options
Use training set
Supplied test set
Set...
Cross-validation
Folds
10
Percentage split
%
66
More options...
(Nom) Bermain_Tenis
Start
Stop
Result list (right-click for options)
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

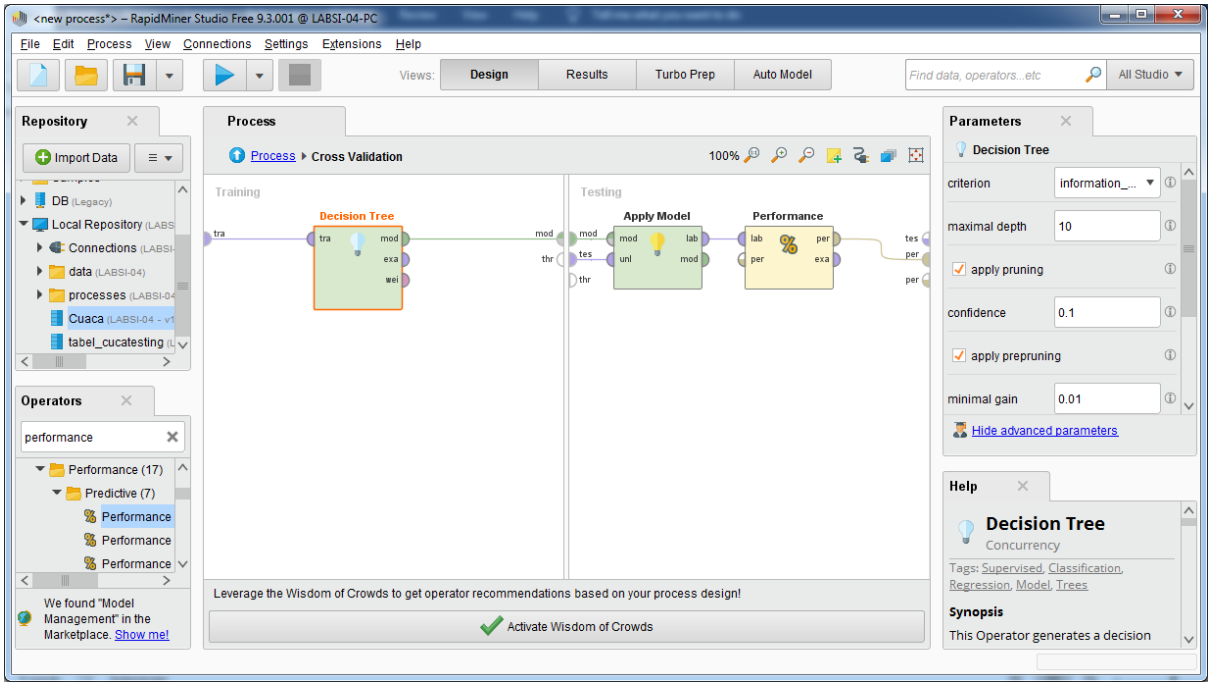

Weka Classifier Tree Visualizer: 12:44:54 - trees.J48 (Cuaca)
Tree View
Cuaca
= Cerah
= Mendung
= Hujan
Kelembapan_Udara
YA (4.0)
Berangin
<= 75
> 75
= YA
= TIDAK
YA (2.0)
TIDAK (3.0)
TIDAK (2.0)
YA (3.0)

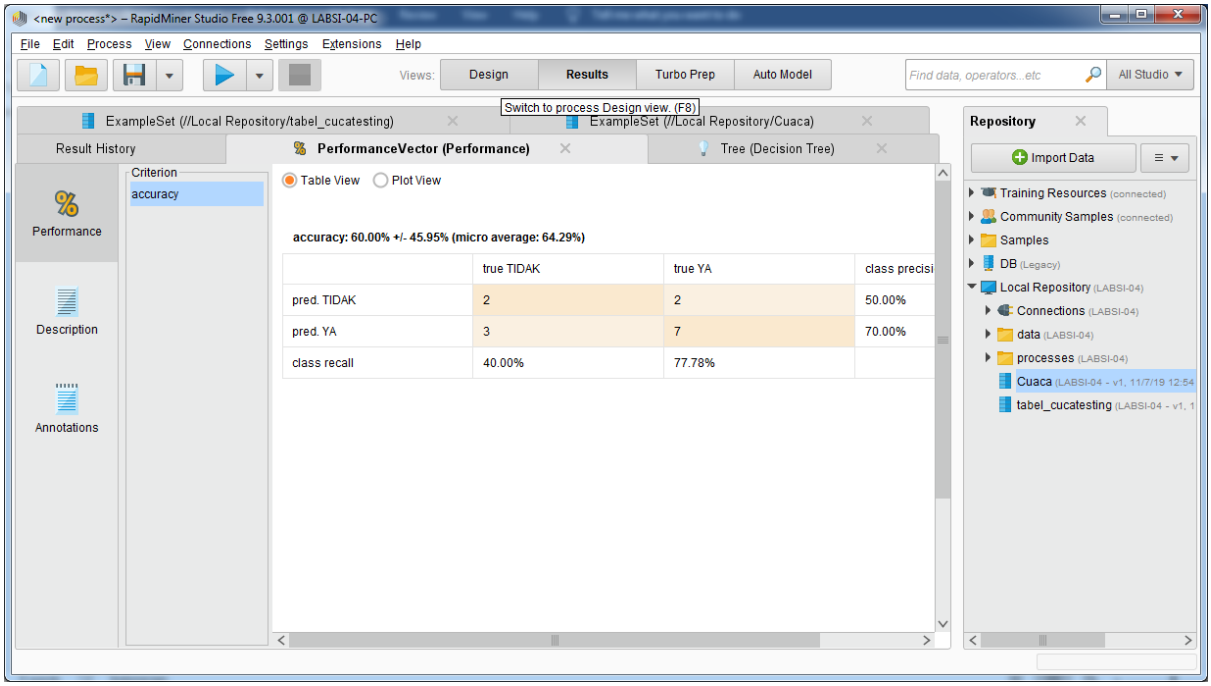

Welcome to RapidMiner Studio!
Start
Recent
Learn
Start a new project
Blank
Start a new process from scratch in the design view.
Turbo Prep
Prepare your data interactively: transform, clean and combine data sets.
Auto Model
Build and optimize models using automated machine learning.
Choose a template 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

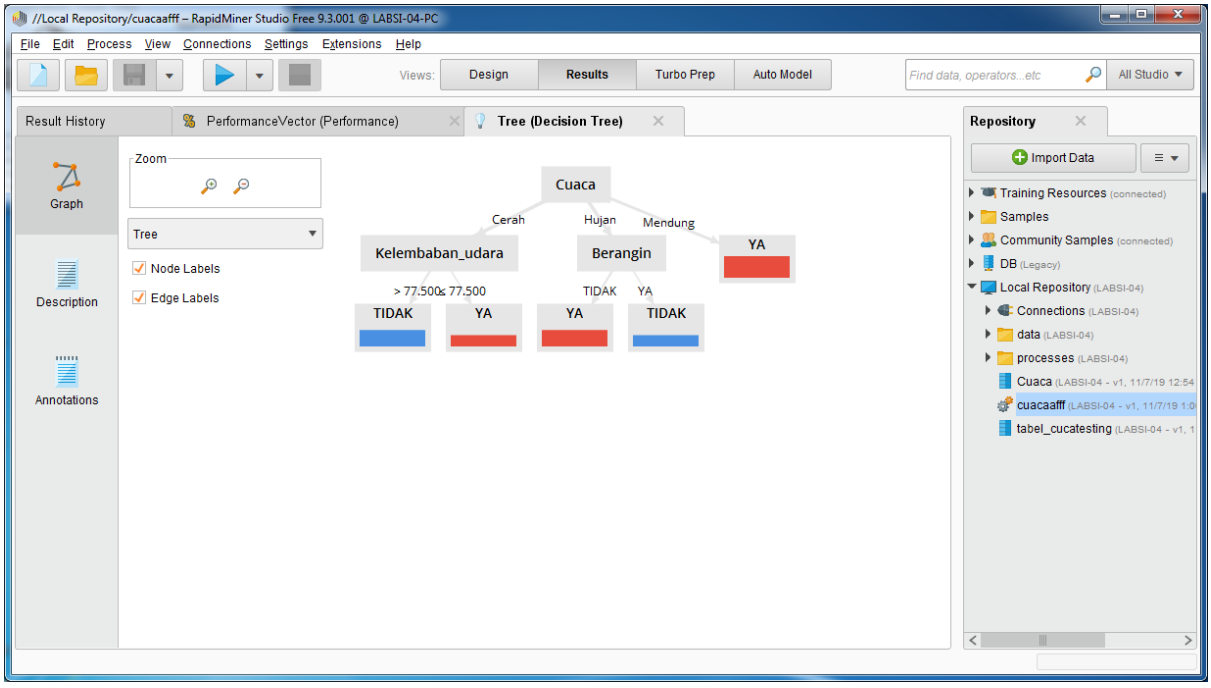

<new process> – RapidMiner Studio Free 9.3.001 @ LABSI-04-PC
File Edit Process View Connections Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc
All Studio
Repository
Import Data
Training Resources
Community Samples
Samples
DB (Legacy)
Local Repository
Operators
Search for Operators
Data Access (53)
Blending (79)
Cleansing (26)
Modeling (156)
Scoring (12)
Validation (29)
Get more operators from the Marketplace
Process
Process
100%
Process
inp
res
Your process looks empty.
Add some data first.
Drag data or operators here.
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Process
logverbosity
init
logfile
Show 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.


<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
Connections
data (LABSI-04)
processes
Cuaca (LABSI-04 - v1
tabel_cucatesting
Operators
cross va
Validation (1)
Cross Validation
No results were found.
ALT + click to disconnect.
Process
Process
100%
Process
inp
Retrieve Cuaca
out
Cross Validation
exa
mod
exa
tes
per
per
res
res
res
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Process
logverbosity
init
logfile
Show 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.


<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 (LABS
Connections (LABSI-
data (LABSI-04)
processes (LABSI-04
Cuaca (LABSI-04 - v1
tabel_cucatesting (L
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
tra
mod
exa
wei
lab
unl
tes
thr
per
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

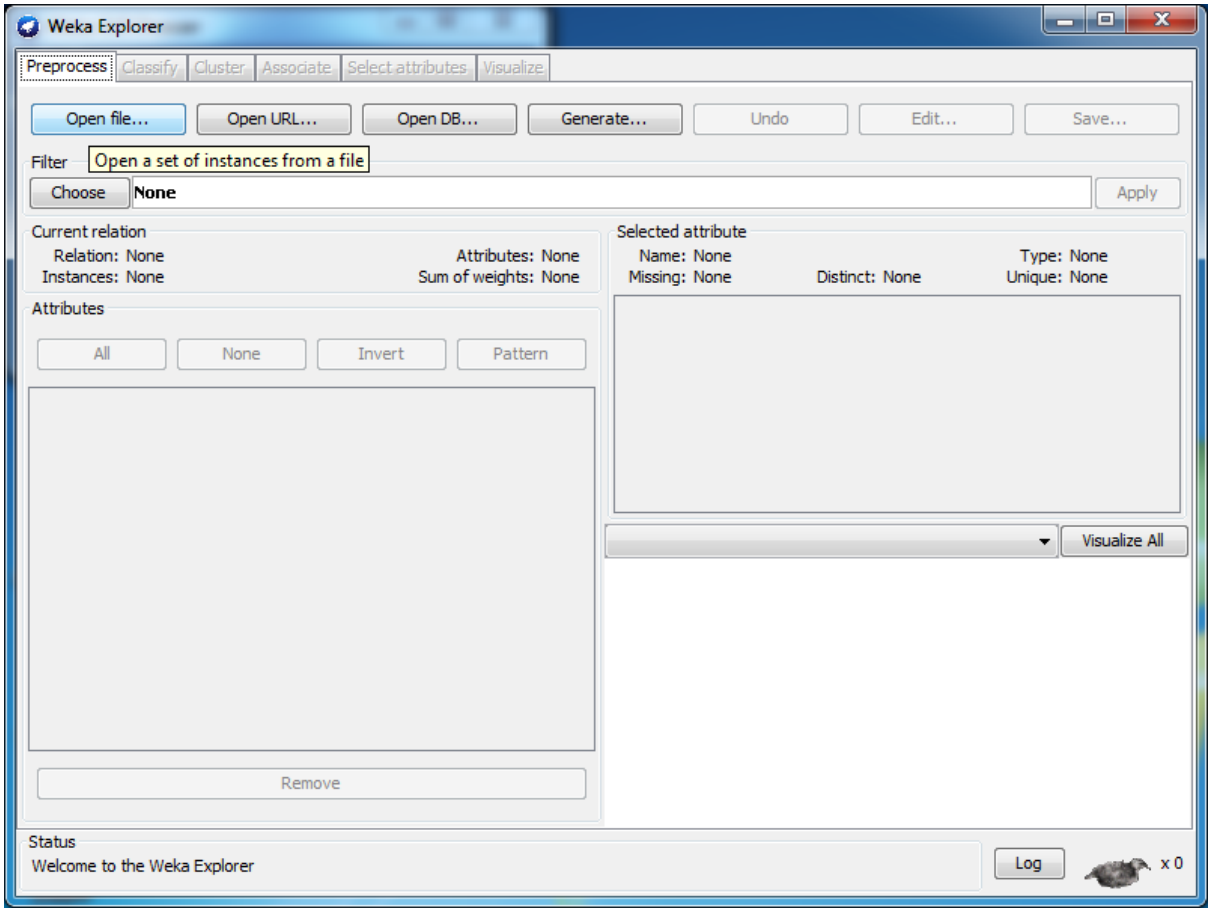

<new process*> – RapidMiner Studio Free 9.3.001 @ LABSI-04-PC
File Edit Process View Connections Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc All Studio
Repository
Import Data
DB (Legacy)
Local Repository (LABS
Connections (LABSI-
data (LABSI-04)
processes (LABSI-04
Cuaca (LABSI-04 - v1
tabel_cucatesting (L
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
tra
mod
exa
wei
lab
unl
tes
thr
per
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

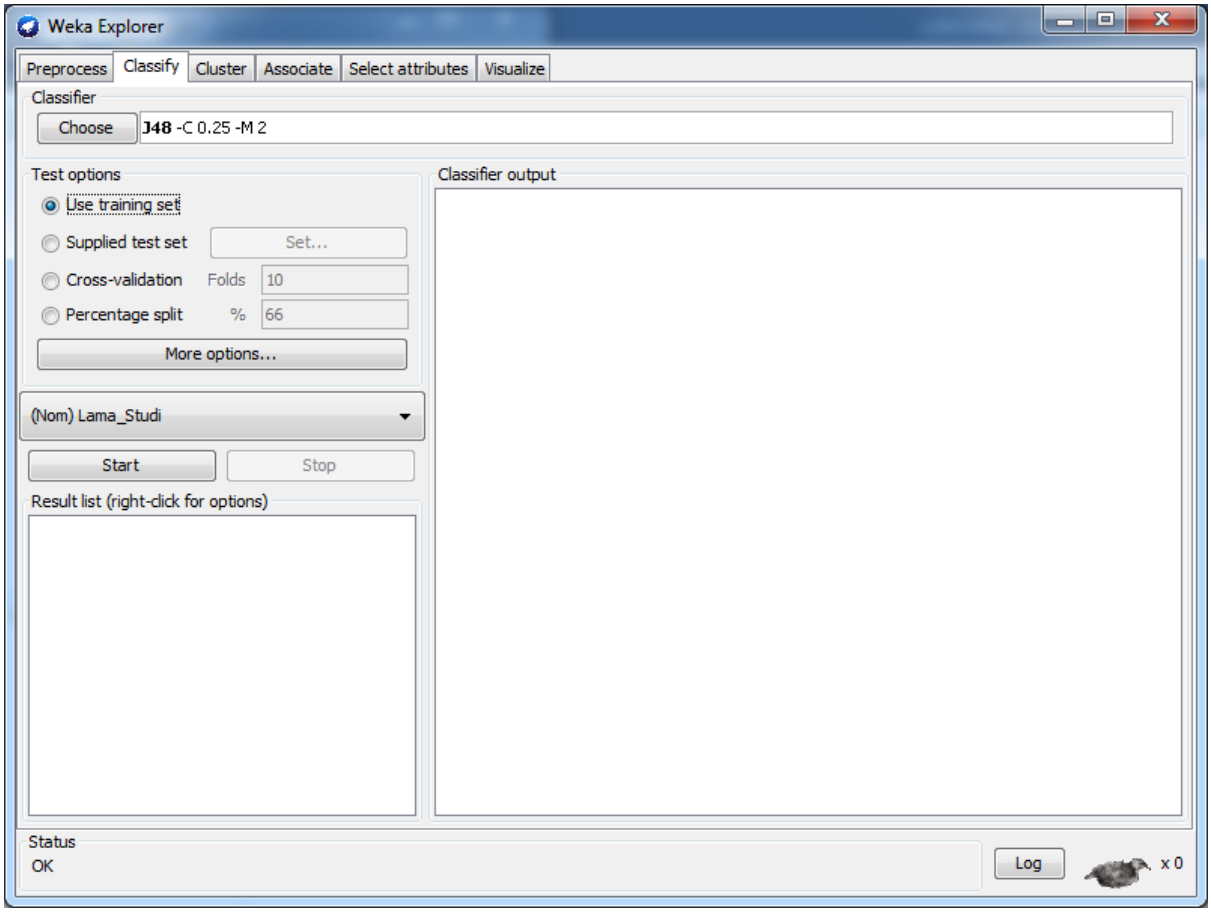

<new process*> – RapidMiner Studio Free 9.3.001 @ LABSI-04-PC
File Edit Process View Connections Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc All Studio
Switch to process Design view. (F8)
ExampleSet (//Local Repository/tabel_cucatesting)
ExampleSet (//Local Repository/Cuaca)
Result History
PerformanceVector (Performance)
Tree (Decision Tree)
Performance
Description
Annotations
Criterion
accuracy
Table View
Plot View
accuracy: 60.00% +/- 45.95% (micro average: 64.29%)
true TIDAK
true YA
class precisi
pred. TIDAK
2
2
50.00%
pred. YA
3
7
70.00%
class recall
40.00%
77.78%
Repository
Import Data
Training Resources (connected)
Community Samples (connected)
Samples
DB (Legacy)
Local Repository (LABSI-04)
Connections (LABSI-04)
data (LABSI-04)
processes (LABSI-04)
Cuaca (LABSI-04 - v1, 11/7/19 12:54
tabel_cucatesting (LABSI-04 - v1, 1

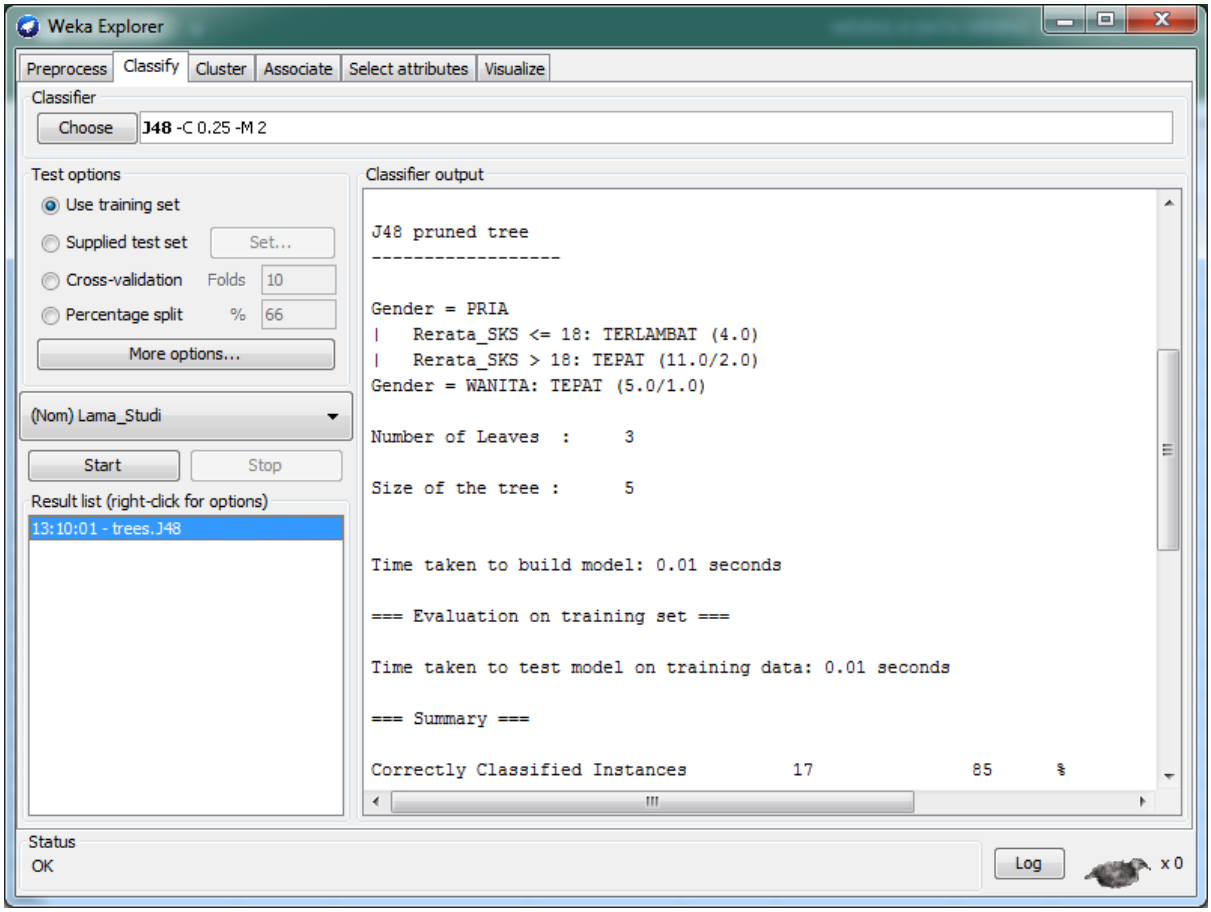

//Local Repository/cuacaafff – RapidMiner Studio Free 9.3.001 @ LABSI-04-PC
File Edit Process View Connections Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc All Studio
Result History
PerformanceVector (Performance)
Tree (Decision Tree)
Graph
Description
Annotations
Zoom
Tree
Node Labels
Edge Labels
Cuaca
Cerah
Hujan
Mendung
Kelembaban_udara
Berangin
YA
> 77,500
≤ 77,500
TIDAK
YA
TIDAK
YA
TIDAK
YA
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
cuacaafff (LABSI-04 - v1, 11/7/19
tabel_cucatesting (LABSI-04 - v1, 1

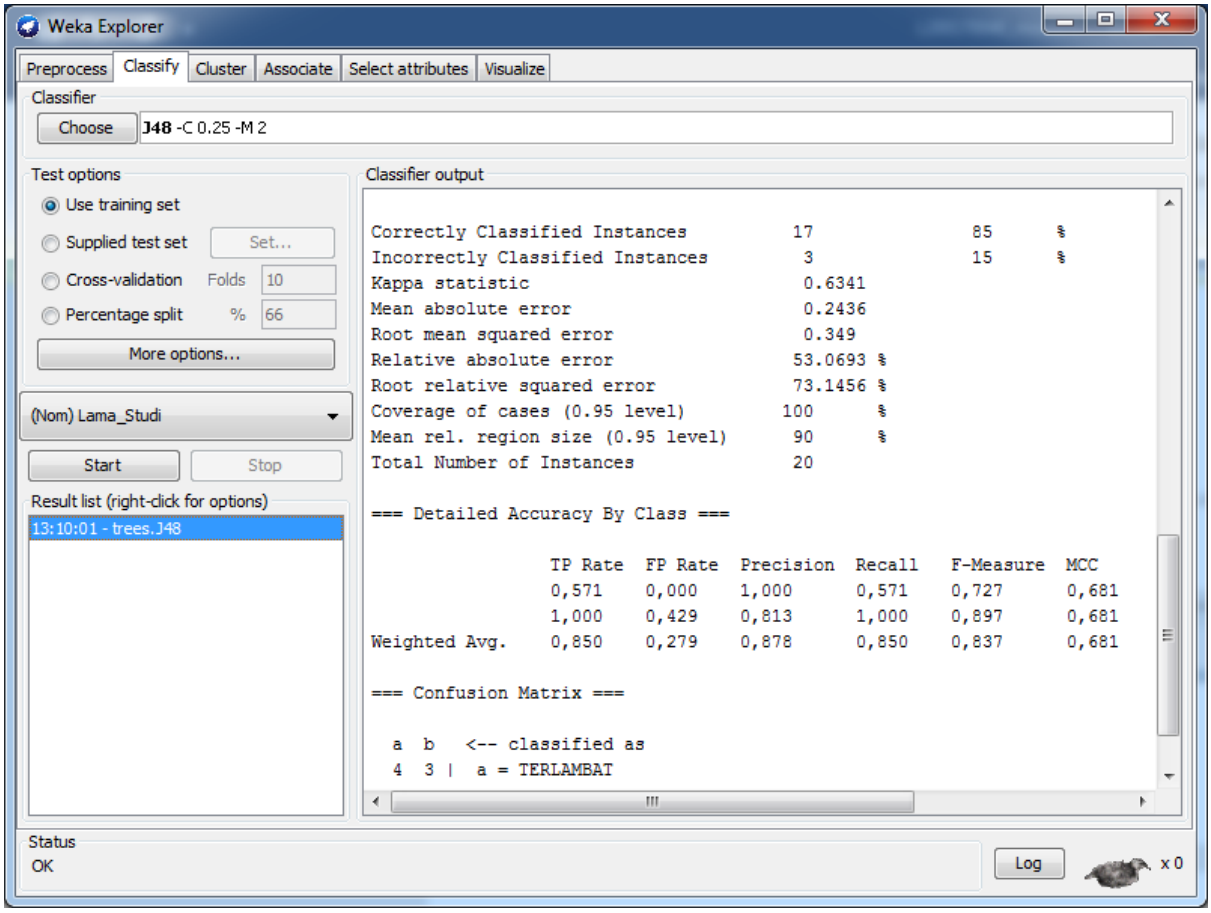
Tugas

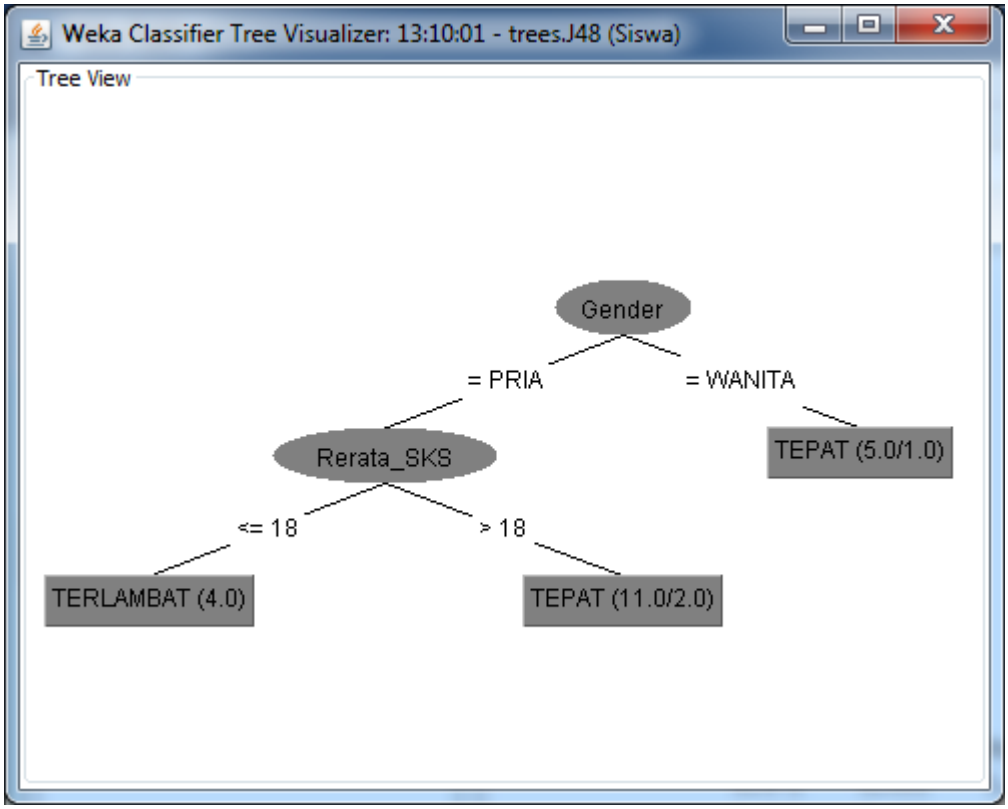
2. a


Weka Explorer
Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Open file...
Open URL...
Open DB...
Generate...
Undo
Edit...
Save...
Filter
Open a set of instances from a file
Choose
None
Apply
Current relation
Relation: None
Instances: None
Attributes: None
Sum of weights: None
Selected attribute
Name: None
Missing: None
Distinct: None
Type: None
Unique: None
Attributes
All
None
Invert
Pattern
Visualize All
Remove
Status
Welcome to the Weka Explorer
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...
Classifier output
(Nom) Lama_Studi
Start
Stop
Result list (right-click for options)
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...
Classifier output
J48 pruned tree
Gender = PRIA
| Rerata_SKS <= 18: TERLAMBAT (4.0)
| Rerata_SKS > 18: TEPAT (11.0/2.0)
Gender = WANITA: TEPAT (5.0/1.0)
Number of Leaves : 3
Size of the tree : 5
Time taken to build model: 0.01 seconds
=== Evaluation on training set ===
Time taken to test model on training data: 0.01 seconds
=== Summary ===
Correctly Classified Instances 17 85 %
(Nom) Lama_Studi
Start
Stop
Result list (right-click for options)
13:10:01 - trees.J48
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) 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


Weka Classifier Tree Visualizer: 13:10:01 - trees.J48 (Siswa)
Tree View
Gender
= PRIA
= WANITA
Rerata_SKS
TEPAT (5.0/1.0)
<= 18
> 18
TERLAMBAT (4.0)
TEPAT (11.0/2.0)

2. b. i. Jumlah simpul daun pada pohon keputusan = 3

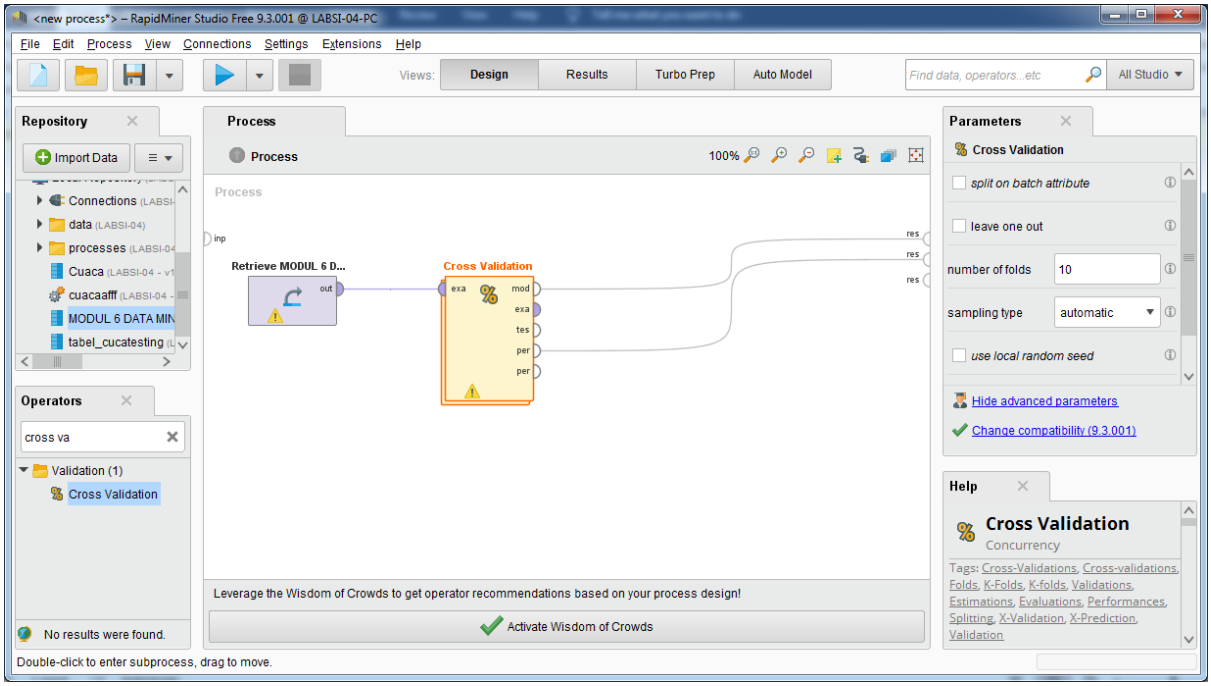
2. b. ii. Jumlah simpul keseluruhan pada pohon keputusan = 5

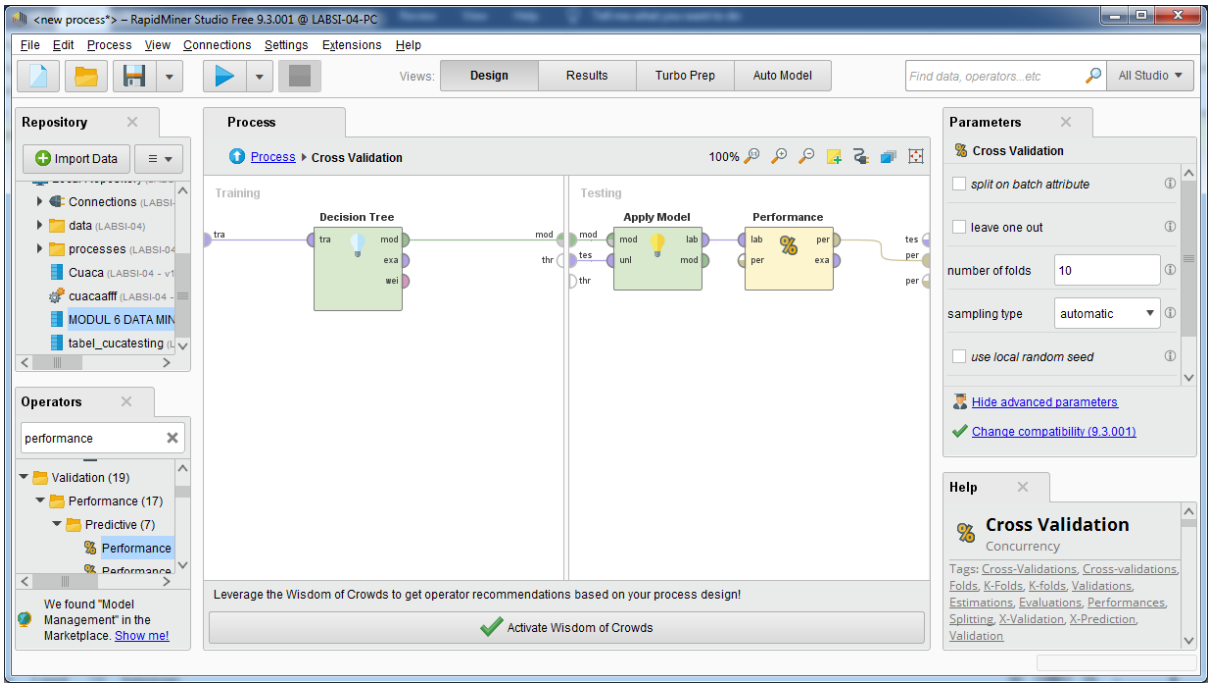
2. b. iii. Waktu yang dibutuhkan untuk proses pelatihan = 0 detik

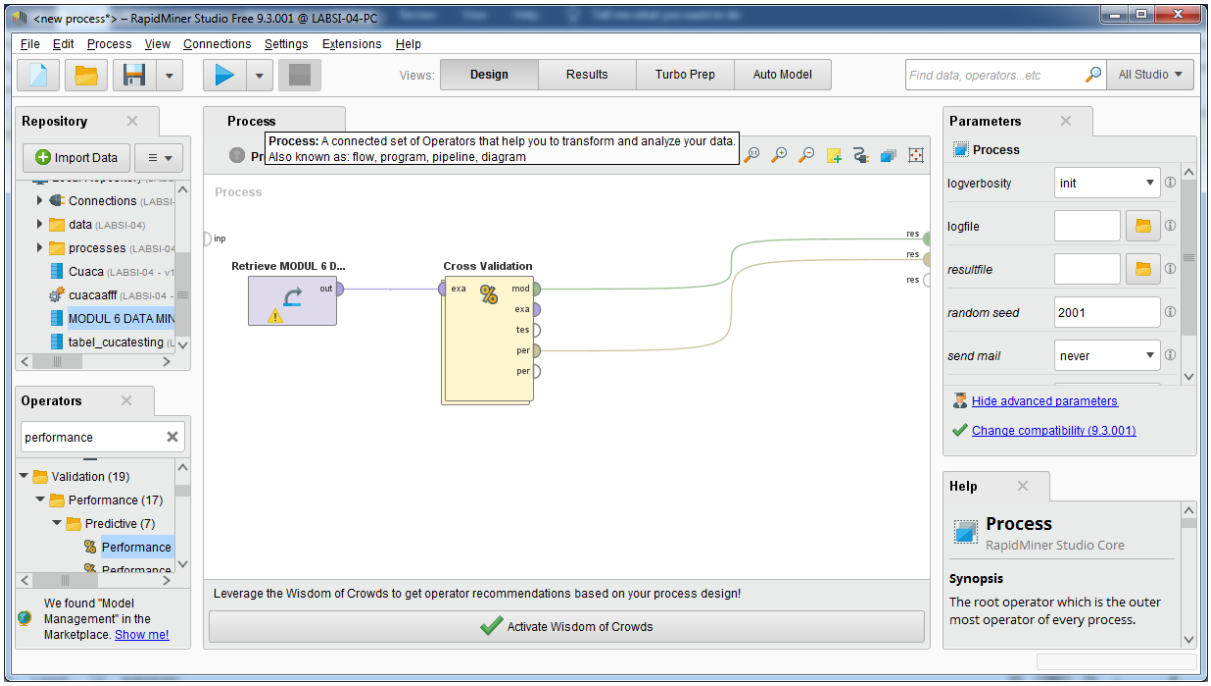
2. b. iv. Tingkat ketepatan klasifikasi = 85%

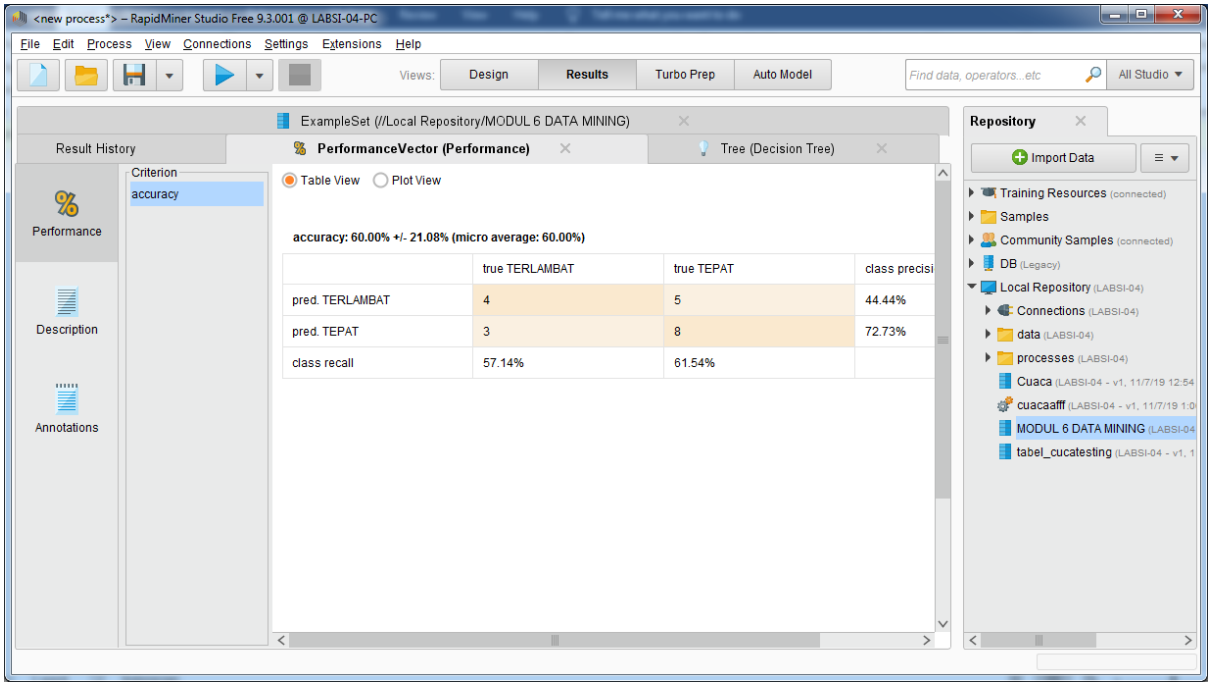
2. b. v. Tingkat ketidaktepatan klasifikasi = 15%

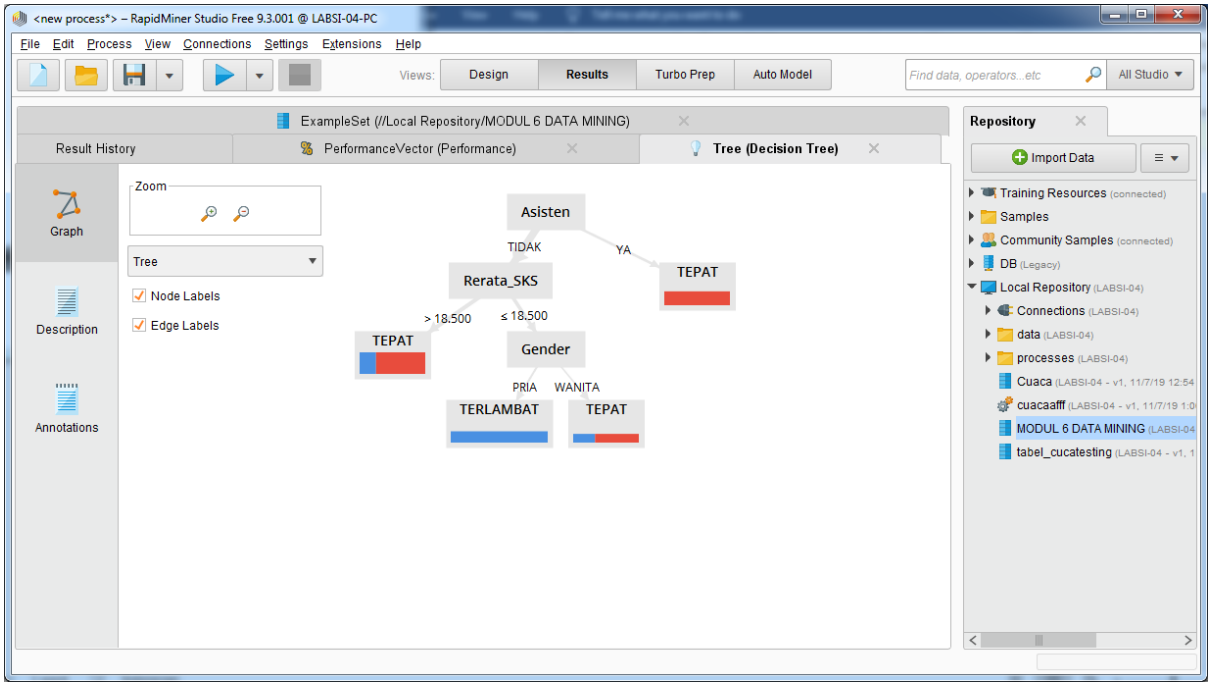
3. a



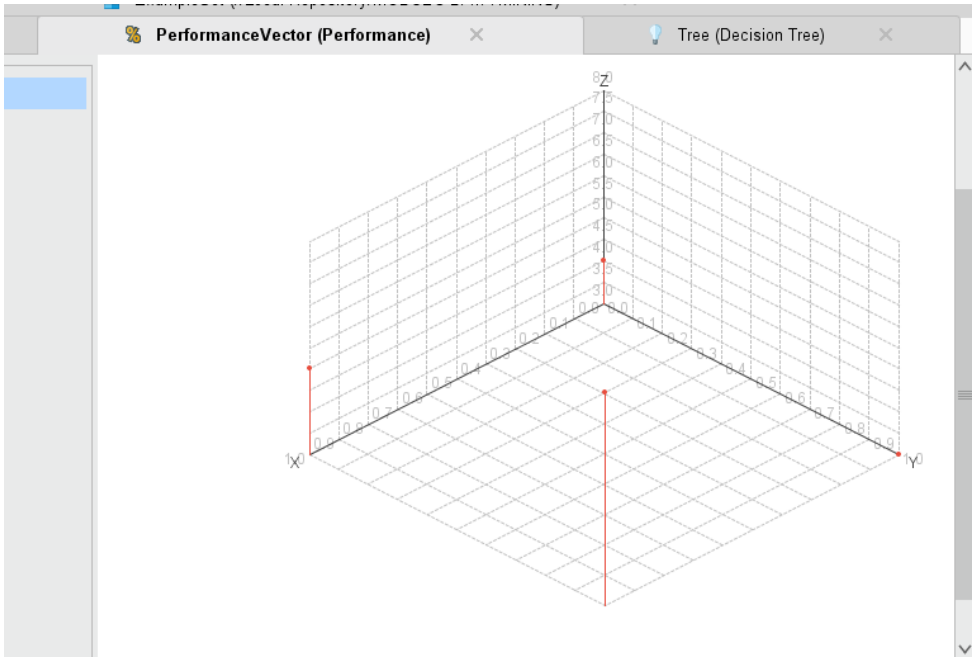



<new process*> – RapidMiner Studio Free 9.3.001 @ LABSI-04-PC
File Edit Process View Connections Settings Extensions Help
Views: Design Results Turbo Prep Auto Model
Find data, operators...etc
All Studio
Repository
Import Data
Connections (LABSI-
data (LABSI-04)
processes (LABSI-04
Cuaca (LABSI-04 - v1
cuacaafff (LABSI-04 -
MODUL 6 DATA MIN
tabel_cucatesting (L
Operators
performance
Validation (19)
Performance (17)
Predictive (7)
Performance
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
inp
Retrieve MODUL 6 D...
out
Cross Validation
exa
mod
exa
tes
per
per
res
res
res
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
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.


<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
ExampleSet (//Local Repository/MODUL 6 DATA MINING)
Result History
PerformanceVector (Performance)
Tree (Decision Tree)
Performance
Description
Annotations
Criterion
accuracy
Table View
Plot View
accuracy: 60.00% +/- 21.08% (micro average: 60.00%)
true TERLAMBAT
true TEPAT
class precisi
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
cuacaafff (LABSI-04 - v1, 11/7/19 1:0
MODUL 6 DATA MINING (LABSI-04
tabel_cucatesting (LABSI-04 - v1, 1



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 <=18,5 . (nilai atribut lain diabaikan)