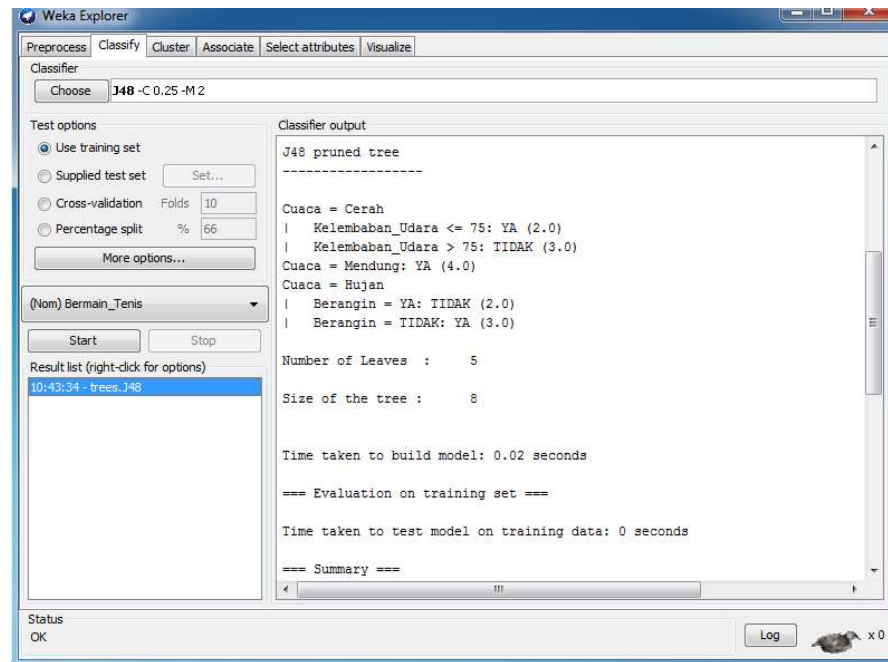


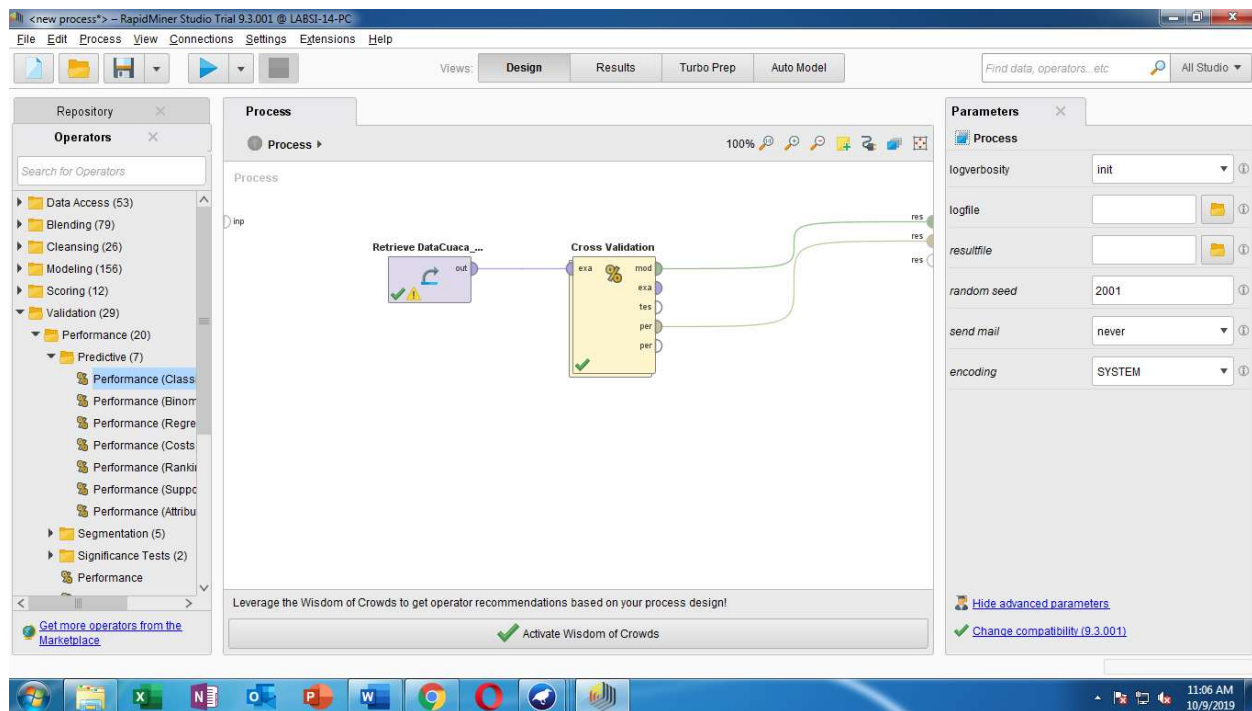
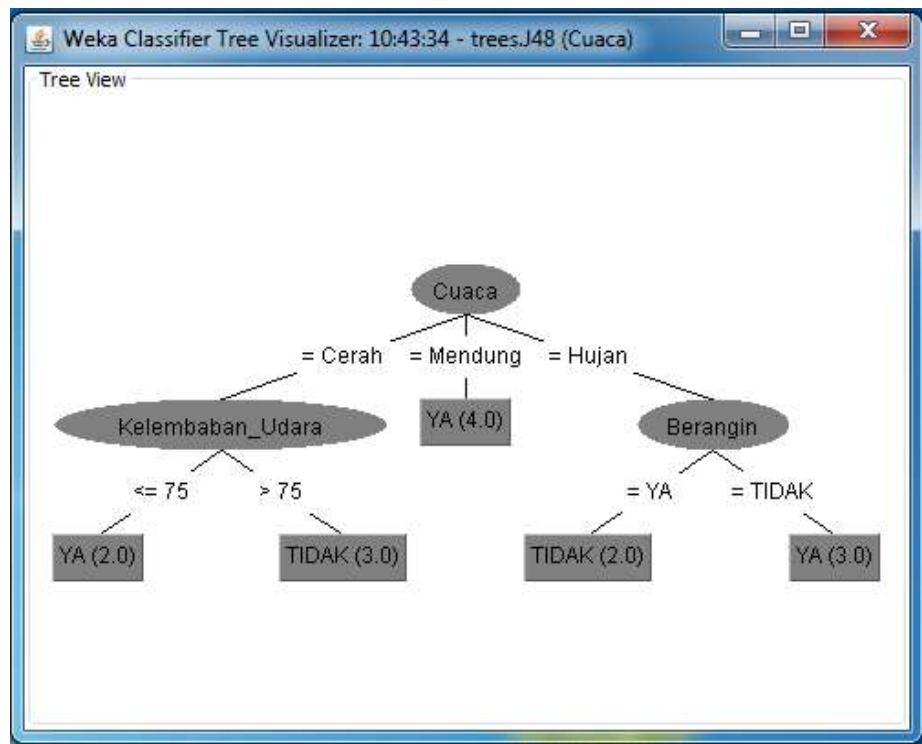
MODUL 9

Nama : Alfian Syahrani

NIM : L200170038

Kelas : B





<new process*> - RapidMiner Studio Trial 9.3.001 @ LABSI-14-PC

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

Repository

Operators

Search for Operators

- Data Access (53)
- Blending (79)
- Cleansing (26)
- Modeling (156)
- Scoring (12)
- Validation (29)
 - Performance (20)
 - Predictive (7)
 - Performance (Class)
 - Performance (Binom)
 - Performance (Regre)
 - Performance (Costs)
 - Performance (Ranki)
 - Performance (Supp)
 - Performance (Attribu)
 - Segmentation (5)
 - Significance Tests (2)
 - Performance

Get more operators from the Marketplace

Process

Process > Cross Validation

100%

Training

Decision Tree

Testing

Apply Model

Performance

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

Activate Wisdom of Crowds

Parameters

Cross Validation

- ☐ split on batch attribute
- ☐ leave one out
- number of folds: 10
- sampling type: automatic
- ☐ use local random seed
- ☒ enable parallel execution

Hide advanced parameters

Change compatibility (9.3.001)

Double-click to enter subprocess, drag to move.

11:06 AM 10/9/2019

<new process*> - RapidMiner Studio Trial 9.3.001 @ LABSI-14-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)

Criterion accuracy

Table View Plot View

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

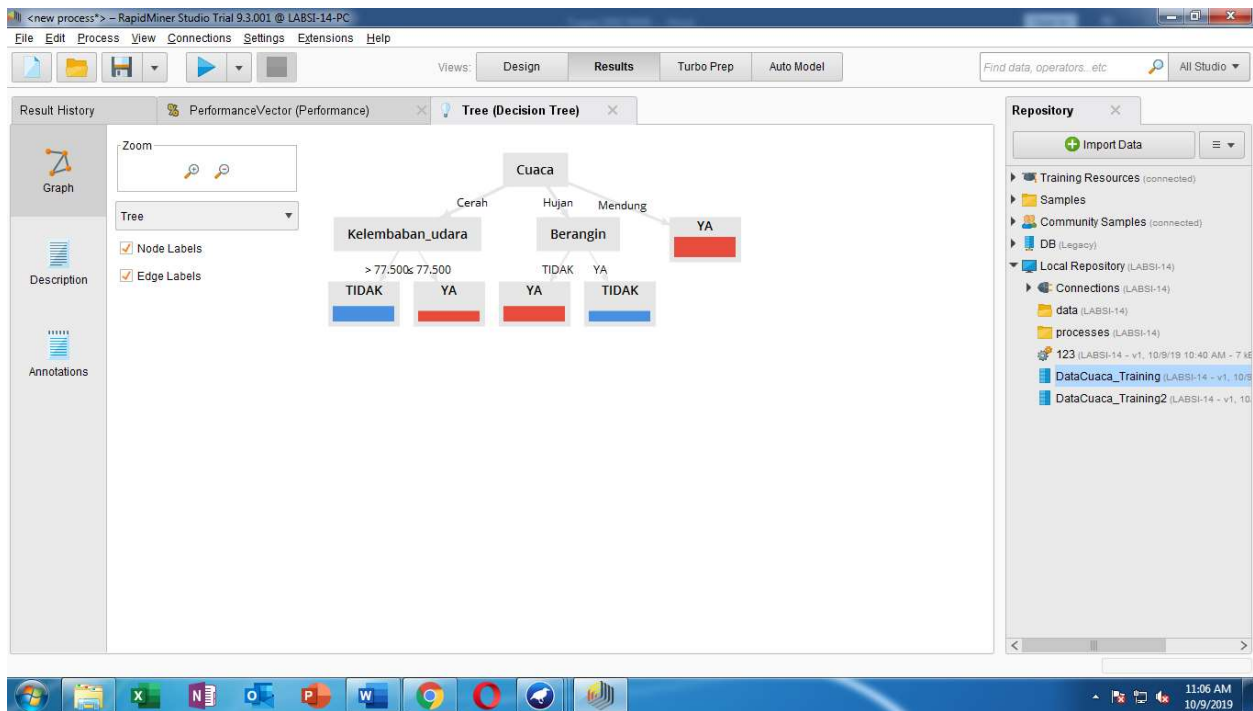
	true TIDAK	true YA	class precision
pred. TIDAK	2	2	50.00%
pred. YA	3	7	70.00%
class recall	40.00%	77.78%	

Repository

Import Data

- Training Resources (connected)
 - Samples
 - Community Samples (connected)
 - DB (Legacy)
 - Local Repository (LABSI-14)
 - Connections (LABSI-14)
 - data (LABSI-14)
 - processes (LABSI-14)
 - 123 (LABSI-14 - v1, 10/9/19 10:40 AM - 7 KB)
 - DataCuaca_Training (LABSI-14 - v1, 10/9/19 10:40 AM - 7 KB)
 - DataCuaca_Training2 (LABSI-14 - v1, 10/9/19 10:40 AM - 7 KB)

11:06 AM 10/9/2019



Tugas

1.

Cuaca	Suhu	Kelembaban udara	Berangin	Bermain_Tenis
Cerah	75	65	TIDAK	Ya
Cerah	80	68	YA	Ya
Cerah	83	87	YA	Tidak
Mendung	70	96	TIDAK	Ya
Mendung	68	81	TIDAK	Ya
Hujan	65	75	YA	Ya
Hujan	64	85	YA	Tidak

+

2.

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
- ☐ Percentage split: %
- More options...

(Nom) Lama_Studi

Start Stop

Result list (right-click for options)

09:50:24 - trees.J48

Classifier output:

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

0 13 | b = TEPAT

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)

09:50:24 - trees.J48

Classifier output:

Time taken to test model on training data: 0 seconds

=== Summary ===

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		

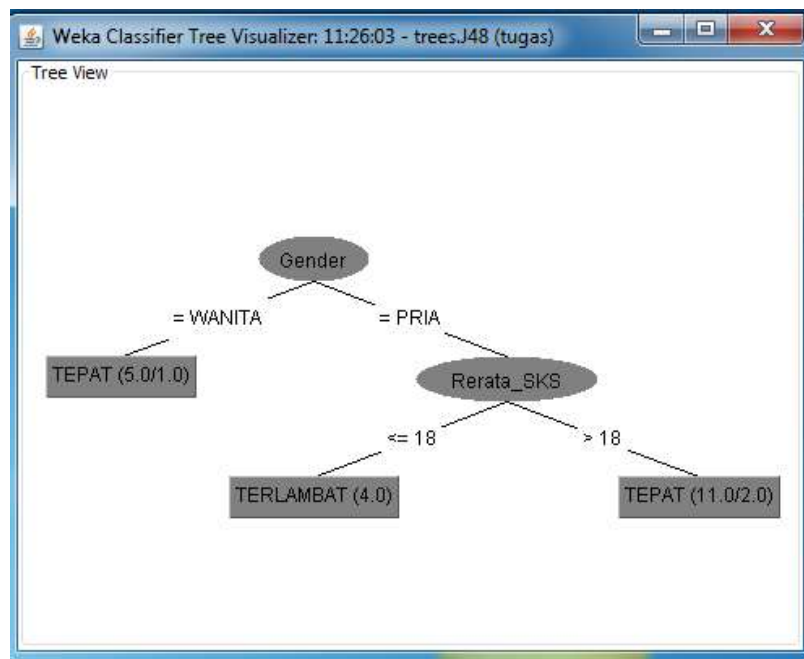
=== Detailed Accuracy By Class ===

	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 ===

Status: OK

Log x 0



Jumlah simpul daun pada pohon keputusan = 3

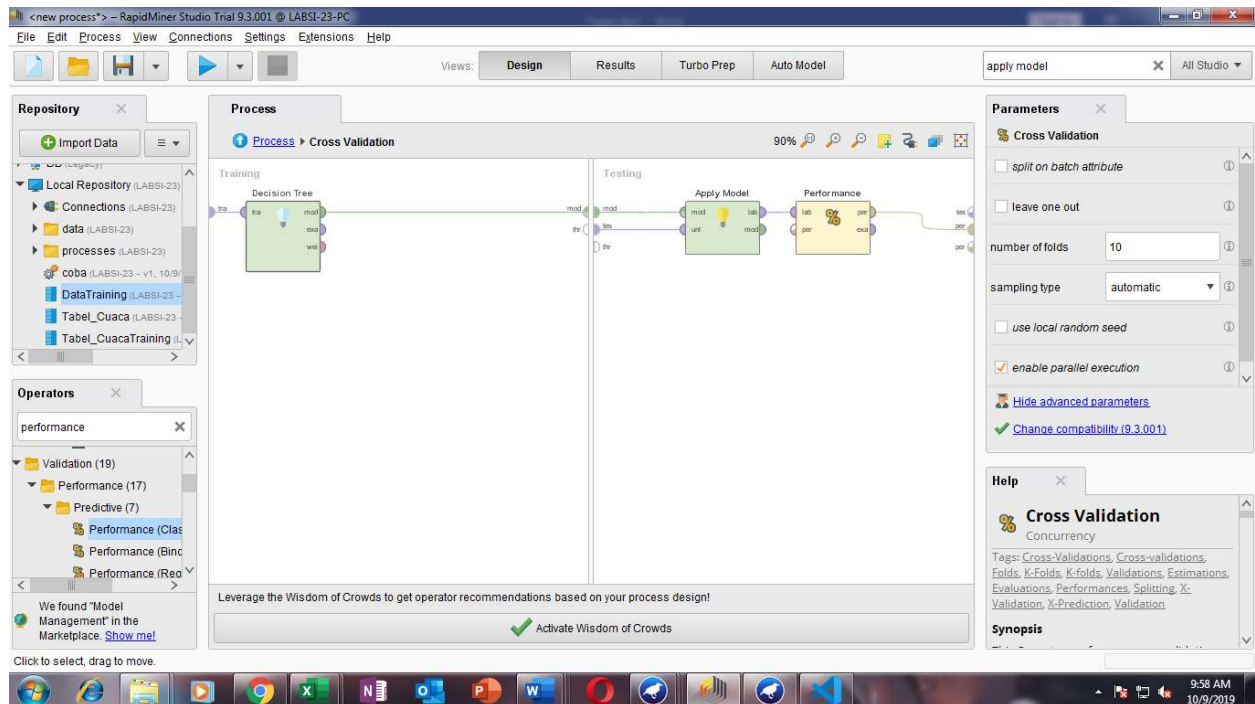
Jumlah simpul keseluruhan pada pohon keputusan = 5

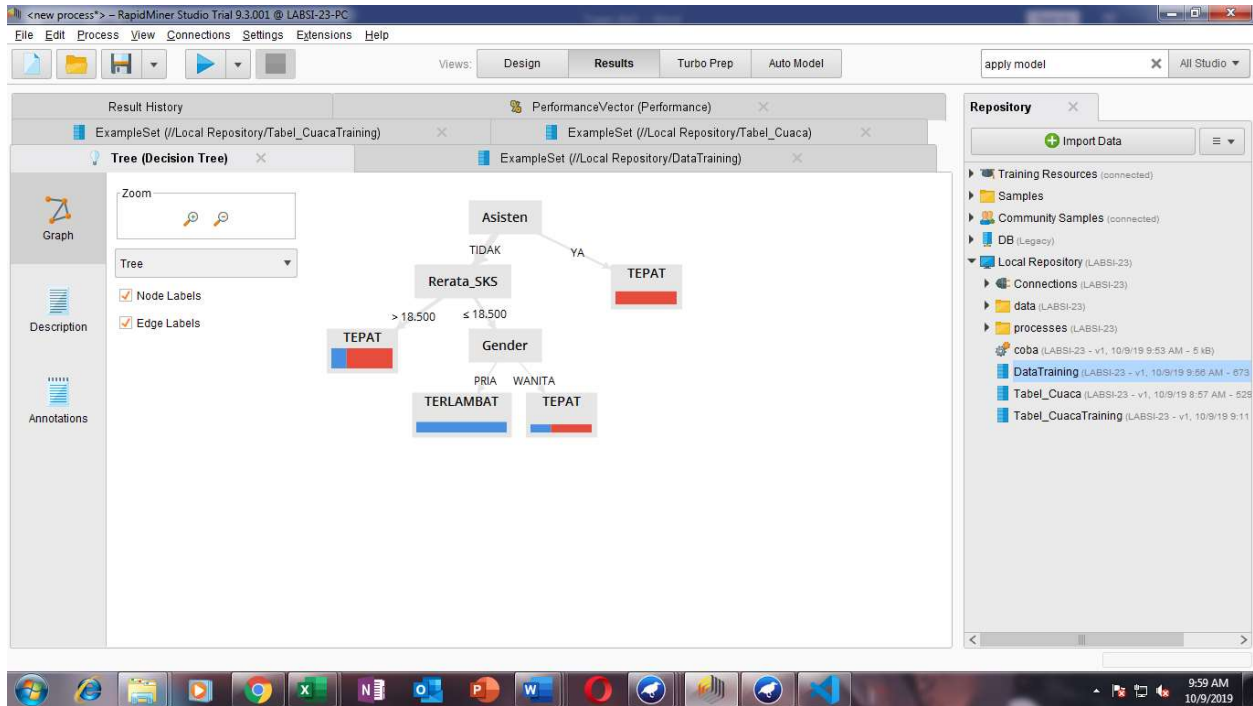
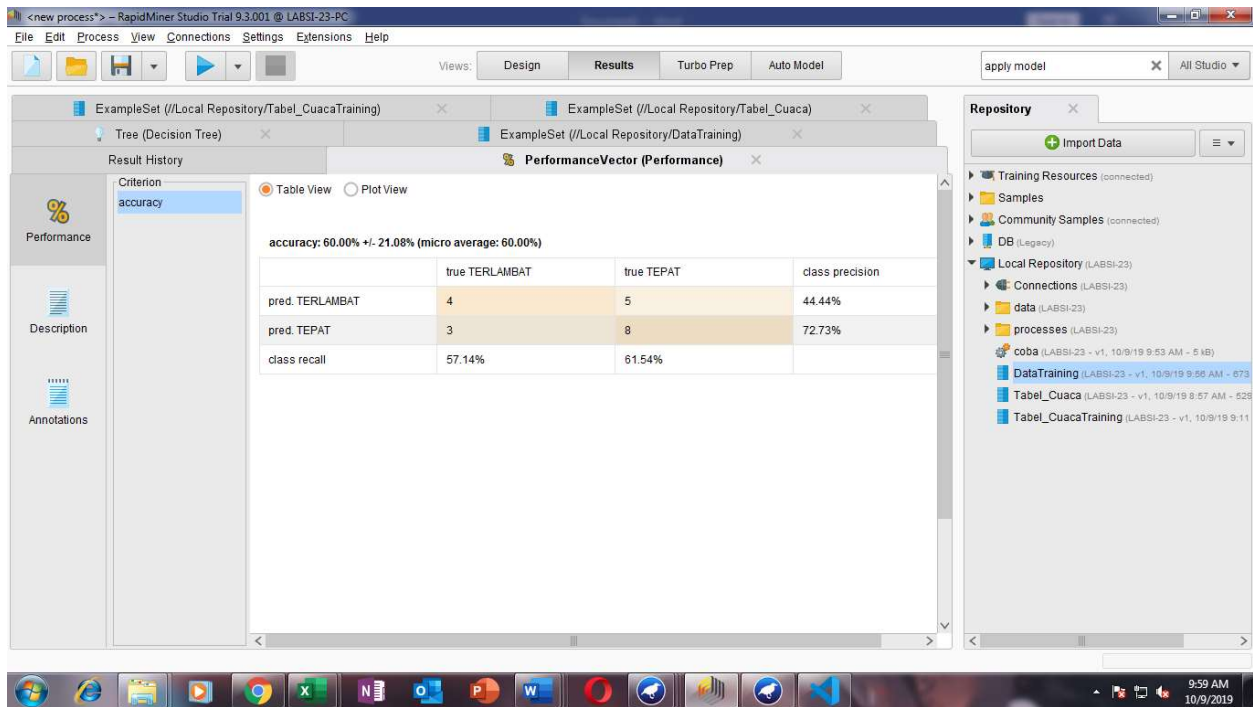
Waktu yang dibutuhkan untuk proses pelatihan = 0 detik

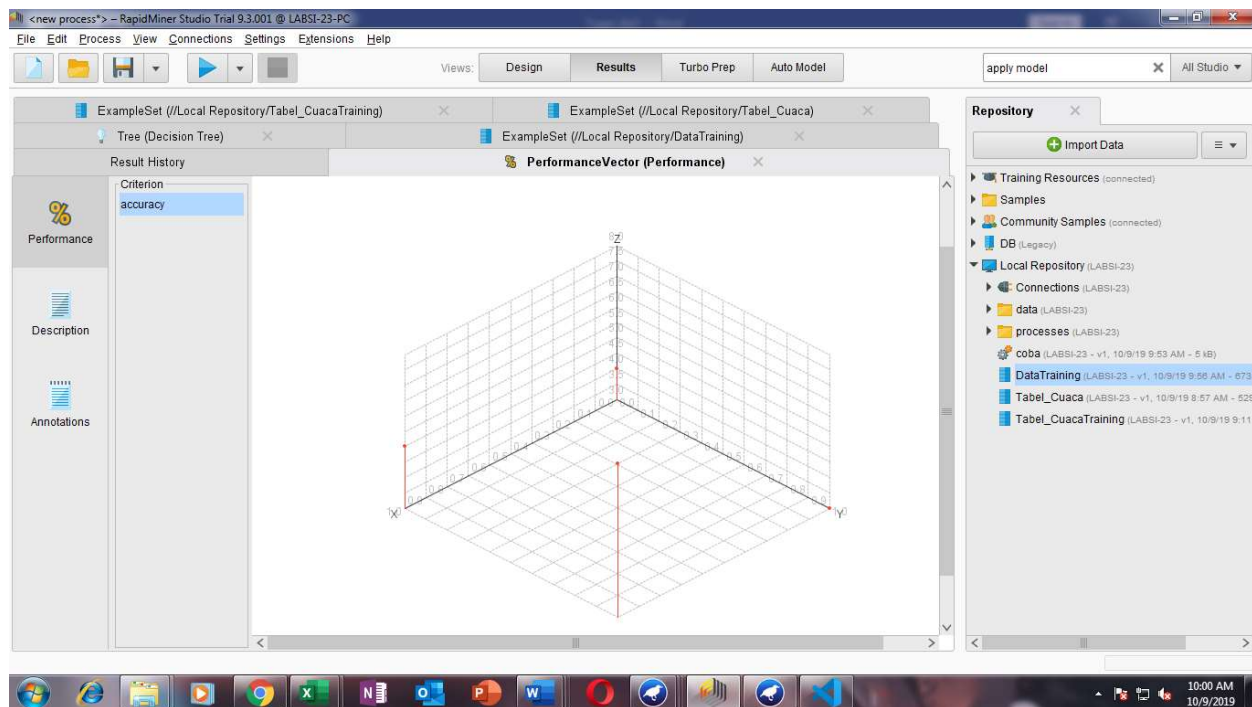
Tingkat ketepatan klasifikasi = 85 %

Tingkat ketidaktepatan klasifikasi = 15 %

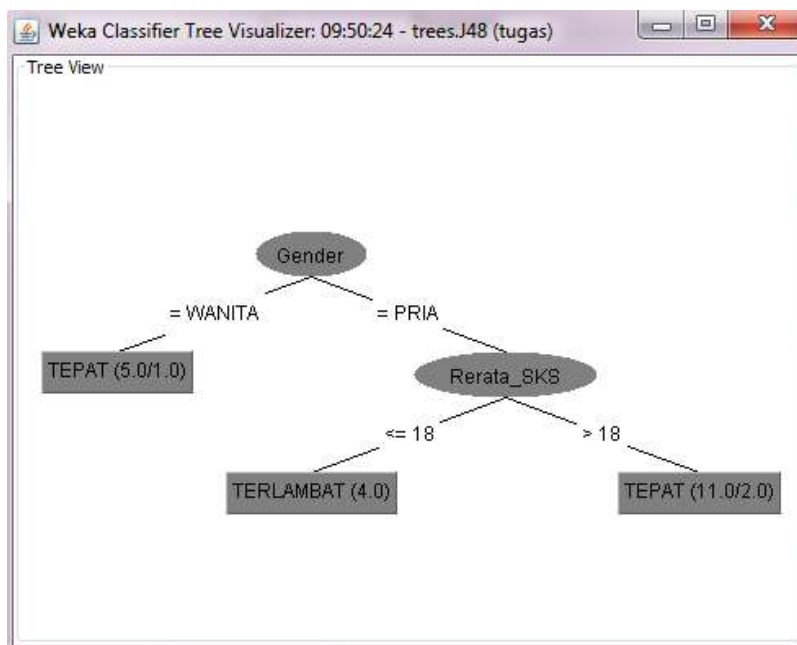
3.







4.



Klasifikasi yang terbentuk yaitu :

Seseorang akan Lama Studi (TEPAT) jika kondisi :

Gender = Wanita (Nilai atribut lain diabaikan)

Gender = Pria, Rerata_SKS > 18 (Nilai atribut lain diabaikan)

Seseorang akan Lama Studi (TERLAMBAT) jika kondisi :

Gender = Pria, Rerata_SKS \leq 18 (Nilai atribut lain diabaikan)