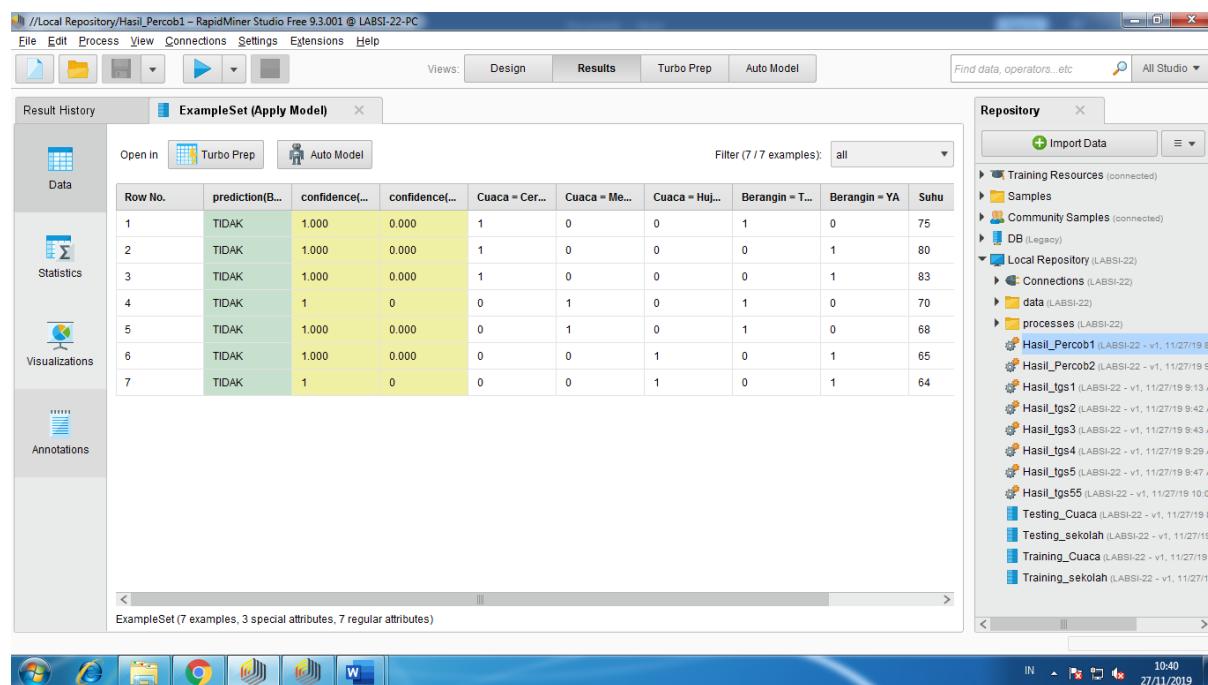
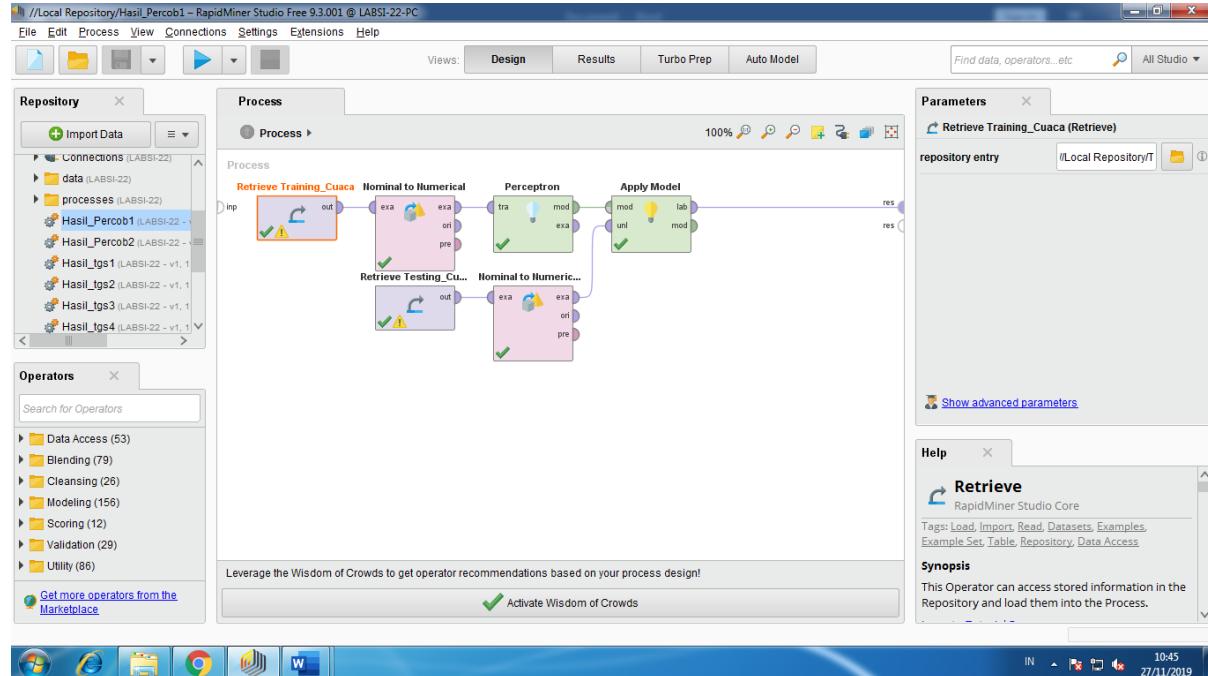


NAMA : JESSICA GUSTIN RAHAJENG
 NIM : L200170026
 KELAS : B

MODUL 13

1. Prediksi Nilai Kelas Atribut dengan Neuron Perceptron



File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Find data, operators...etc All Studio

Result History ExampleSet (Apply Model)

Data Statistics Visualizations Annotations

Open in Turbo Prep Auto Model Filter (7 / 7 examples): all

ion(B...)	confidence(...)	confidence(...)	Cuaca = Cer...	Cuaca = Me...	Cuaca = Huj...	Berangin = T...	Berangin = YA	Suhu	Kelembapan...
	1.000	0.000	1	0	0	1	0	75	65
	1.000	0.000	1	0	0	0	1	80	68
	1.000	0.000	1	0	0	0	1	83	87
	1	0	0	1	0	1	0	70	96
	1.000	0.000	0	1	0	1	0	68	81
	1.000	0.000	0	0	1	0	1	65	75
	1	0	0	1	0	1	0	64	85

< > ExampleSet (7 examples, 3 special attributes, 7 regular attributes)

IN 10:41 27/11/2019

2. Mengetahui Nilai Performance Vector pada Jaringan Saraf Tiruan

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Find data, operators...etc All Studio

Repository

Import Data

Process

Process

Retrieval Training_C... Cross Validation

Operators

Search for Operators

Data Access (53) Blending (79) Cleansing (26) Modeling (156) Scoring (12) Validation (29) Utility (86)

Get more operators from the Marketplace.

Parameters

Process

logverbosity: init

logfile:

Show advanced parameters Change compatibility (9.3.001)

Help

Process

RapidMiner Studio Core

Synopsis

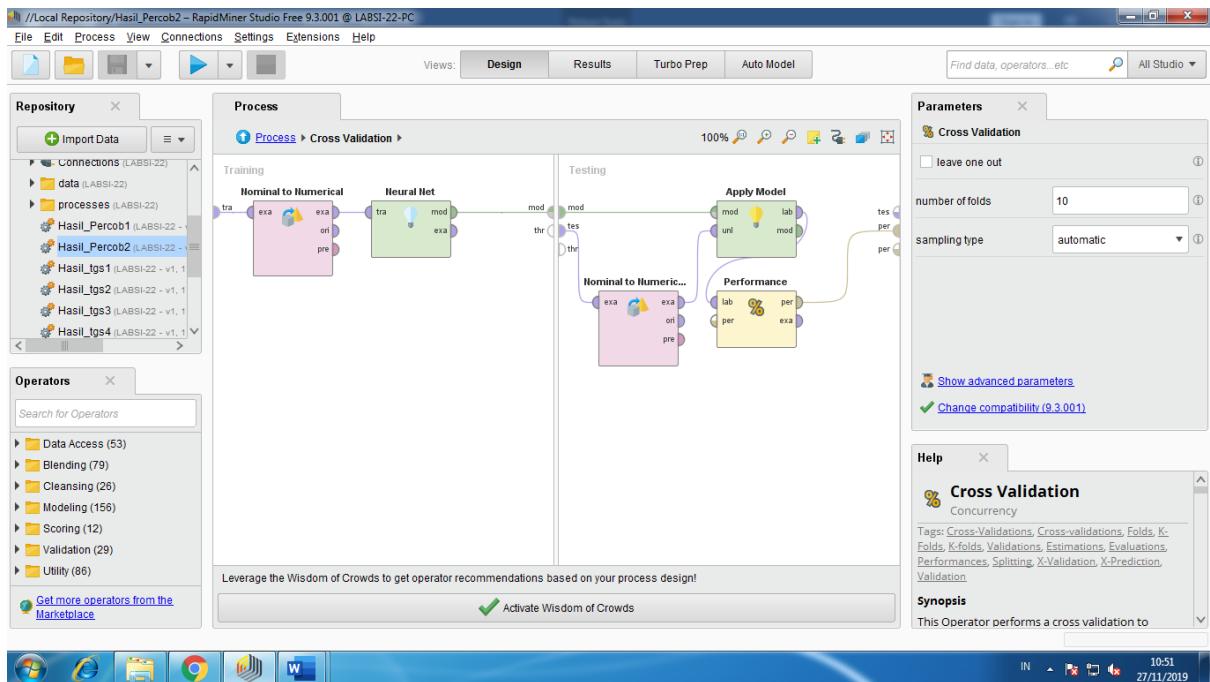
The root operator which is the outer most operator of every process.

Description

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

Activate Wisdom of Crowds

IN 10:50 27/11/2019



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) ImprovedNeuralNet (Neural Net)

Criterion accuracy

Table View Plot View

accuracy: 50.00% +/- 47.14% (micro average: 57.14%)

	true TIDAK	true YA	class precision
pred. TIDAK	2	3	40.00%
pred. YA	3	6	66.67%
class recall	40.00%	66.67%	

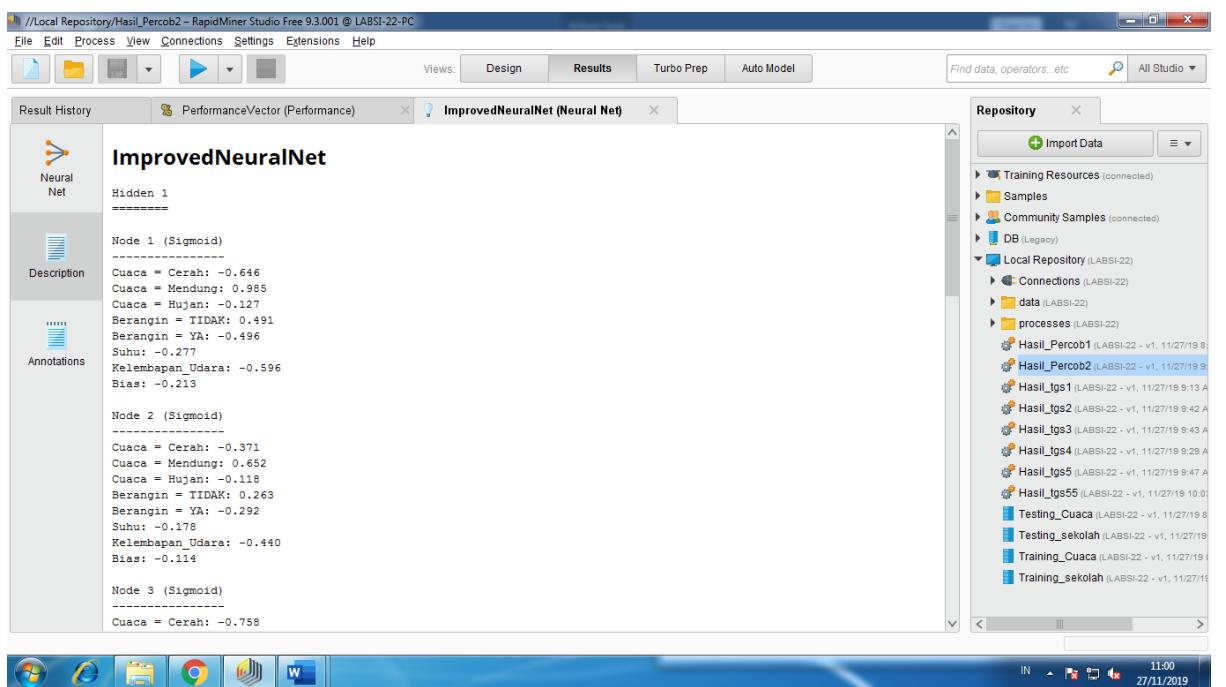
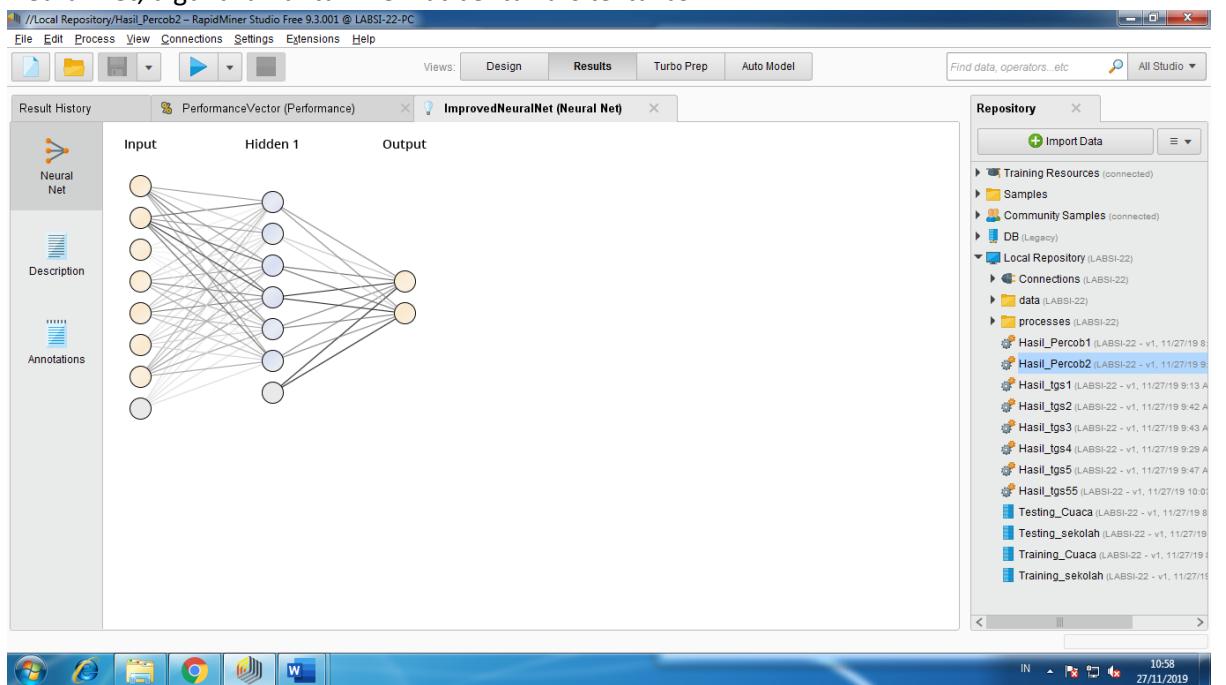
Repository

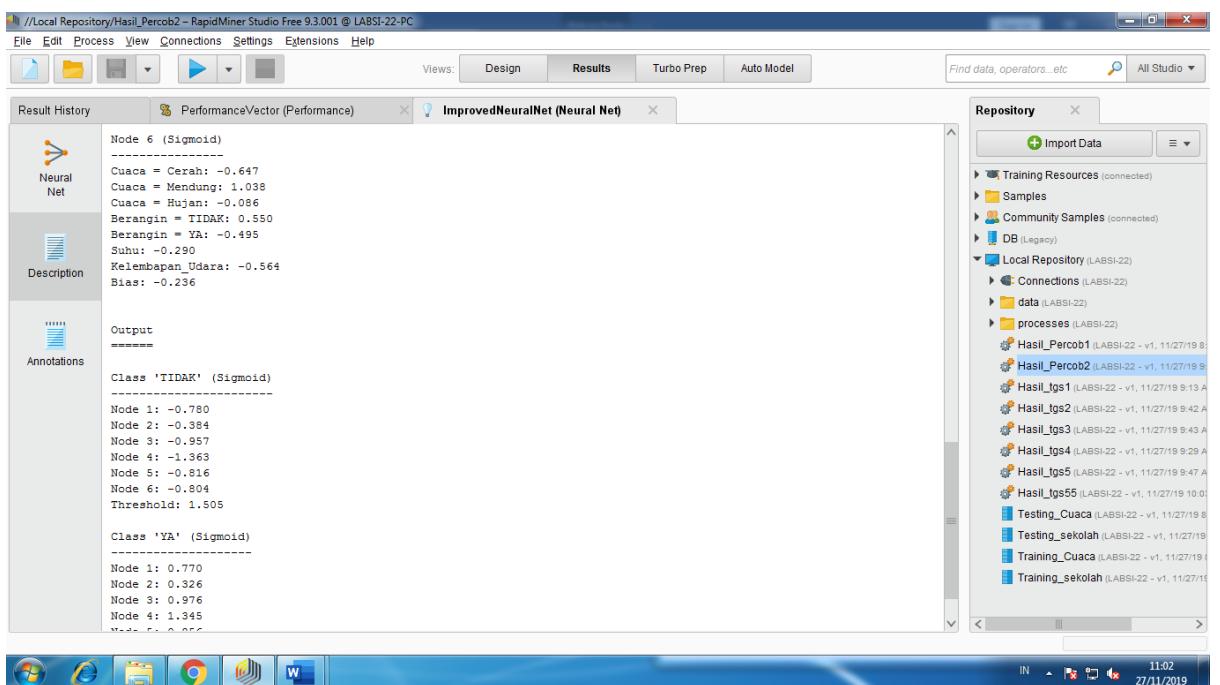
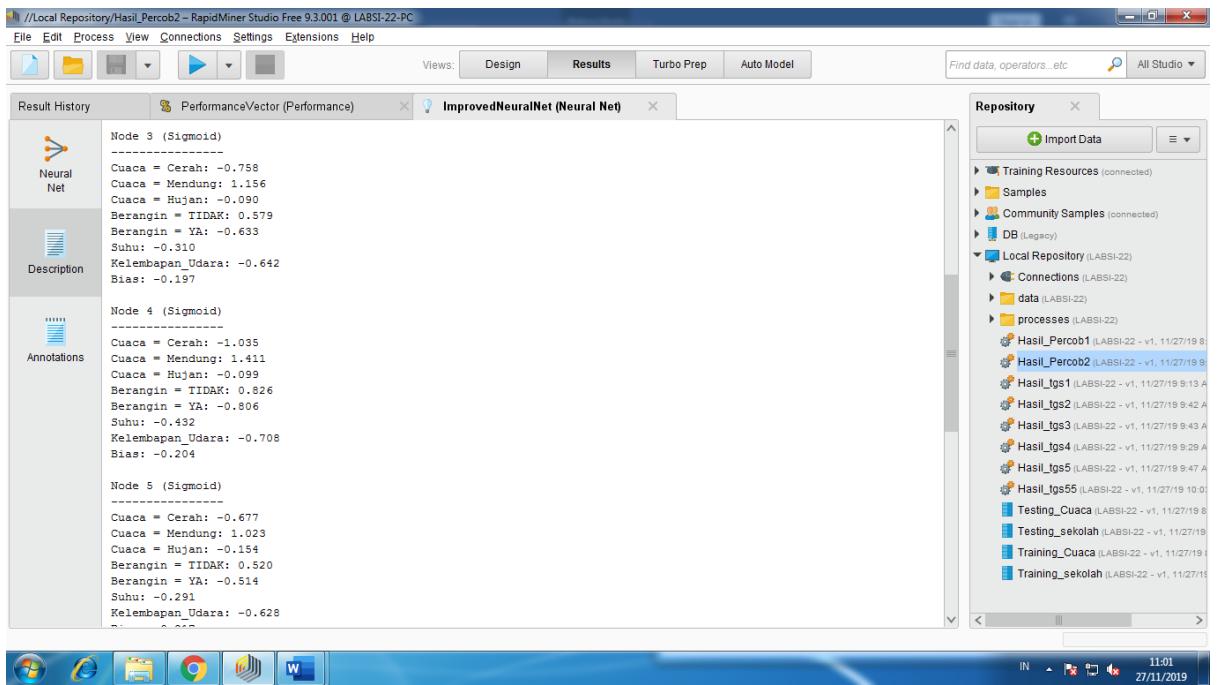
- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB (Legacy)
- Local Repository (LABSI-22)
 - Connections (LABSI-22)
 - data (LABSI-22)
 - processes (LABSI-22)
 - Hasil_Percob1 (LABSI-22 - v1, 11/27/19 8:45:19)
 - Hasil_Percob2 (LABSI-22 - v1, 11/27/19 8:45:19)
 - Hasil_gs1 (LABSI-22 - v1, 11/27/19 9:13 A)
 - Hasil_gs2 (LABSI-22 - v1, 11/27/19 9:42 A)
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 - Hasil_gs55 (LABSI-22 - v1, 11/27/19 10:00)
 - Testing_Cuaca (LABSI-22 - v1, 11/27/19 8:45:19)
 - Testing_sekolah (LABSI-22 - v1, 11/27/19 8:45:19)
 - Training_Cuaca (LABSI-22 - v1, 11/27/19 8:45:19)
 - Training_sekolah (LABSI-22 - v1, 11/27/19 8:45:19)

IN 10:51 27/11/2019

Tab ImprovedNeuralNet (Neural Net), memperlihatkan arsitektur syaraf.

a) Neural Net, digunakan untuk melihat bentuk arsitektur JST





TUGAS

1. File excel sebagai data training dan data testing

Tabel_Tugas - Excel

File Home Insert Page Layout Formulas Data Review View Help Tell me what you want to do

Cut Copy Format Painter Paste Clipboard

Font Alignment Number Styles Cells Editing

A25

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Jurusan_SMA	Gender	Asal_Sekolah	Rerata_SKS	Asisten	Lama_Studi											
2	IPS	WANITA	SURAKARTA	18	TIDAK	TERLAMBAT											
3	IPA	PRIA	SURAKARTA	19	YA	TEPAT											
4	LAIN	PRIA	SURAKARTA	19	TIDAK	TERLAMBAT											
5	IPA	PRIA	LUAR	17	TIDAK	TERLAMBAT											
6	IPA	WANITA	SURAKARTA	17	TIDAK	TEPAT											
7	IPA	WANITA	LUAR	18	YA	TEPAT											
8	IPA	PRIA	SURAKARTA	18	TIDAK	TERLAMBAT											
9	IPA	PRIA	SURAKARTA	19	TIDAK	TEPAT											
10	IPS	PRIA	LUAR	18	TIDAK	TERLAMBAT											
11	LAIN	WANITA	SURAKARTA	18	TIDAK	TEPAT											
12	IPA	WANITA	SURAKARTA	19	TIDAK	TEPAT											
13	IPS	PRIA	SURAKARTA	20	TIDAK	TEPAT											
14	IPS	PRIA	SURAKARTA	19	TIDAK	TEPAT											
15	IPA	PRIA	SURAKARTA	19	TIDAK	TEPAT											
16	IPA	PRIA	LUAR	22	YA	TEPAT											
17	LAIN	PRIA	SURAKARTA	16	TIDAK	TERLAMBAT											
18	IPS	PRIA	LUAR	20	TIDAK	TEPAT											
19	LAIN	PRIA	LUAR	23	YA	TEPAT											
20	IPA	PRIA	SURAKARTA	21	YA	TEPAT											
21	IPS	PRIA	SURAKARTA	19	TIDAK	TERLAMBAT											
22																	
23																	

Sheet1 Sheet2 Sheet3 Sheet4 +

100% 27/11/2019

Tabel_Tugas - Excel

File Home Insert Page Layout Formulas Data Review View Help Tell me what you want to do

Cut Copy Format Painter

Font Alignment Number Styles Cells Editing

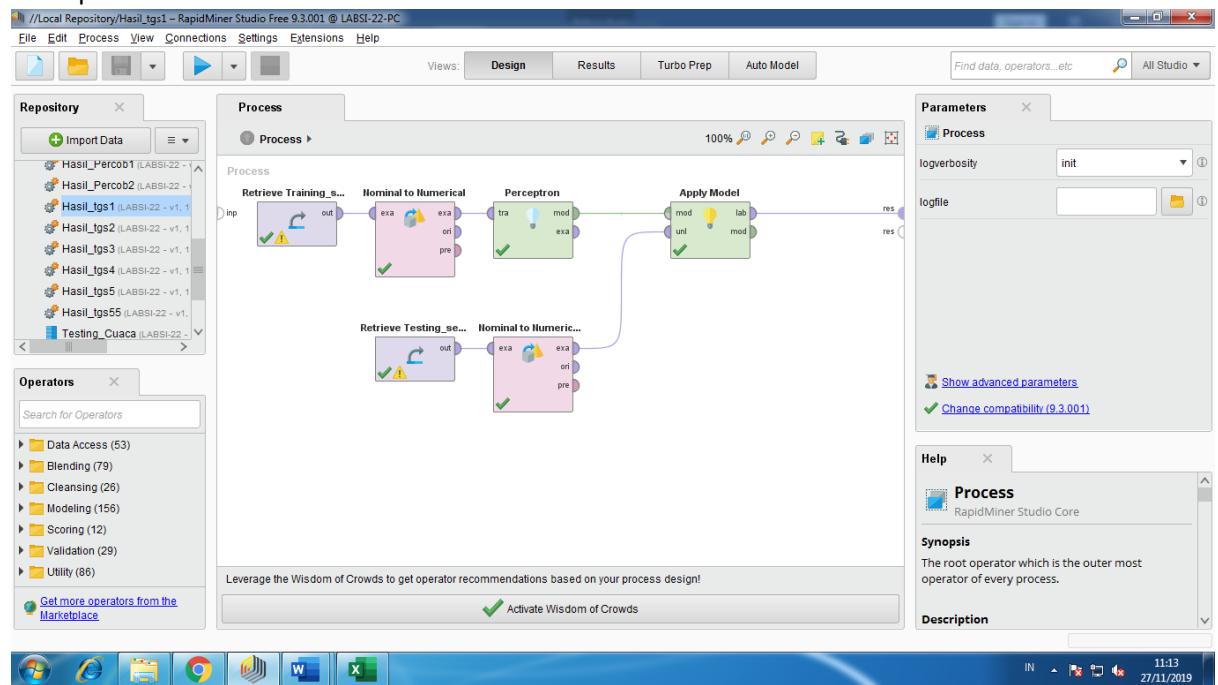
Jurusan_SMA

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Jurusan_SMA	Gender	Asal_Sekolah	Rerata_SKS	Asisten													
2	LAIN	WANITA	SURAKARTA		18	TIDAK												
3	IPA	PRIA	SURAKARTA		19	YA												
4	LAIN	PRIA	SURAKARTA		19	TIDAK												
5	IPS	PRIA	LUAR		17	TIDAK												
6	LAIN	WANITA	SURAKARTA		17	TIDAK												
7	IPA	WANITA	LUAR		18	YA												
8	IPA	PRIA	SURAKARTA		18	TIDAK												
9	IPA	PRIA	SURAKARTA		19	TIDAK												
10	IPS	PRIA	LUAR		18	TIDAK												
11	LAIN	WANITA	SURAKARTA		18	TIDAK												
12																		
13																		
14																		
15																		
16																		
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19																		
20																		
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23																		

Sheet1 Sheet2 Sheet3 Sheet4 +

11:07 27/11/2019

2. Hasil prediksi terhadap data testing lama studi mahasiswa dengan menggunakan model Perception

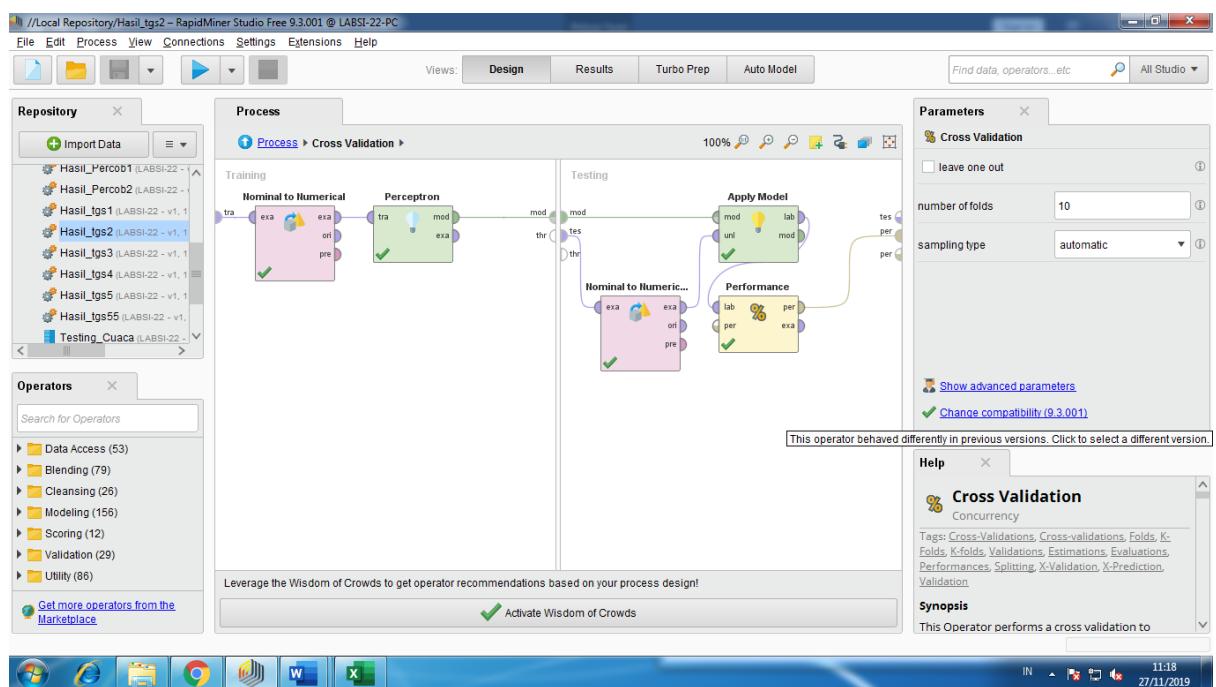
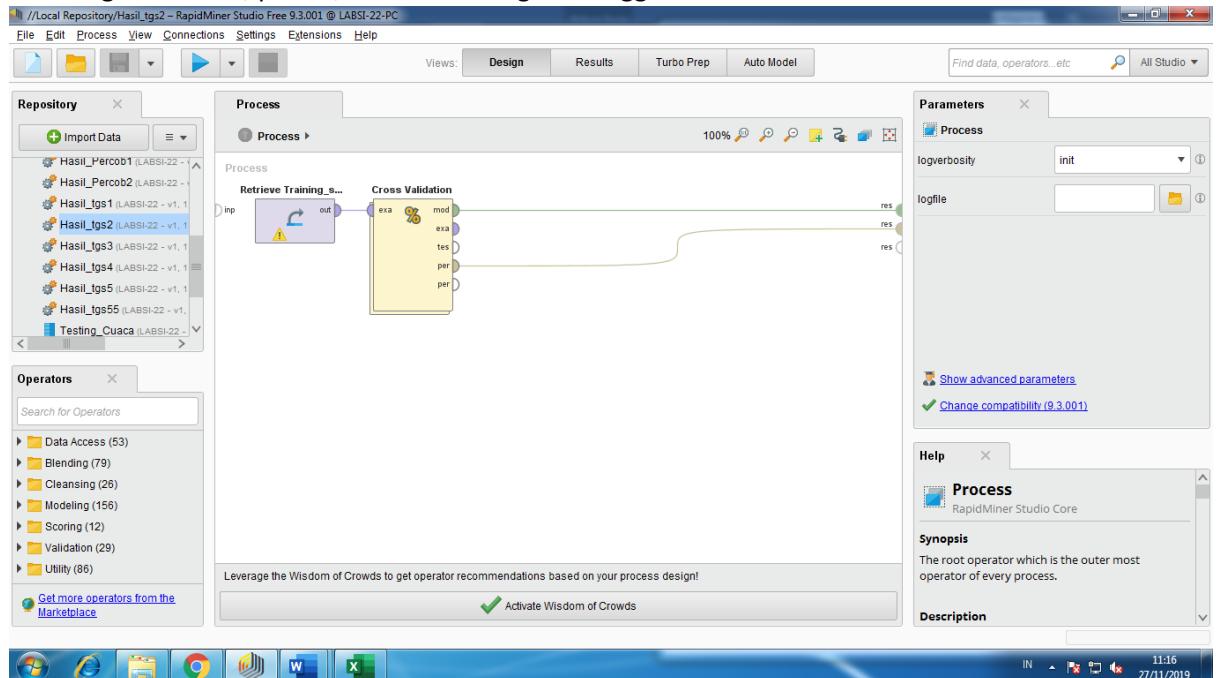


The screenshot shows the Results view for the "ExampleSet (Apply Model)" tab. The table displays the following data:

	prediction(L...	confidence(...	confidence(...	Jurusan_S...	Jurusan_S...	Jurusan_S...	Gender = W...	Gender = PR...	Asal_Sekolah...	Asal...
TEPAT	0.462	0.538		1	0	0	1	0	1	0
TEPAT	0.385	0.615		0	1	0	0	1	1	0
TERLAMBAT	0.536	0.464		1	0	0	0	1	1	0
TERLAMBAT	0.579	0.421		0	0	1	0	1	0	1
TEPAT	0.465	0.535		1	0	0	1	0	1	0
TEPAT	0.325	0.675		0	1	0	1	0	0	1
TEPAT	0.458	0.542		0	1	0	0	1	1	0
TEPAT	0.455	0.545		0	1	0	0	1	1	0
TERLAMBAT	0.576	0.424		0	0	1	0	1	0	1
TEPAT	0.462	0.538		1	0	0	1	0	1	0

Below the table, it says "ExampleSet (10 examples, 3 special attributes, 10 regular attributes)".

3. Nilai tingkat akurasi, presisi, dan recall dengan menggunakan Performance Vector



//Local Repository/Hasil_tgs2 - RapidMiner Studio Free 9.3.001 @ LABSI-22-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) Hyperplane (Perceptron)

Criterion accuracy

accuracy: 40.00% +/- 31.62% (micro average: 40.00%)

	true TERLAMBAT	true TEPAT	class precision
pred. TERLAMBAT	4	9	30.77%
pred. TEPAT	3	4	57.14%
class recall	57.14%	30.77%	

Repository

- Training Resources (connected)
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- DB (Legacy)
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 - processes (LABSI-22)
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 - Hasil_Igs5 (LABSI-22 - v1, 11/27/19 9:47 AM)
 - Hasil_Igs55 (LABSI-22 - v1, 11/27/19 10:00 AM)
 - Testing_Cuaca (LABSI-22 - v1, 11/27/19 8:47 AM)
 - Testing_sekolah (LABSI-22 - v1, 11/27/19 8:47 AM)
 - Training_Cuaca (LABSI-22 - v1, 11/27/19 8:47 AM)
 - Training_sekolah (LABSI-22 - v1, 11/27/19 8:47 AM)

IN 11:18 27/11/2019

The screenshot shows the RapidMiner Studio interface with the 'PerformanceVector (Performance)' tab selected. On the left, there's a sidebar with 'Performance', 'Description', and 'Annotations' sections. The main area displays a table for accuracy and a confusion matrix for two classes: TERLAMBAT and TEPAT. The confusion matrix values are: TERLAMBAT to TERLAMBAT: 4, TERLAMBAT to TEPAT: 3; TEPAT to TERLAMBAT: 9, TEPAT to TEPAT: 4. Below the table, a detailed description of the PerformanceVector is provided, mentioning accuracy, micro average, and the confusion matrix.

//Local Repository/Hasil_tgs2 - RapidMiner Studio Free 9.3.001 @ LABSI-22-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) Hyperplane (Perceptron)

PerformanceVector

PerformanceVector:
accuracy: 40.00% +/- 31.62% (micro average: 40.00%)
ConfusionMatrix:
True: TERLAMBAT TEPAT
TERLAMBAT: 4 9
TEPAT: 3 4

Repository

- Training Resources (connected)
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 - Training_sekolah (LABSI-22 - v1, 11/27/19 8:47 AM)

IN 11:18 27/11/2019

This screenshot is similar to the one above but shows a simplified version of the performance description. It only lists the overall accuracy and the confusion matrix without the detailed breakdown of each class's performance.

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) Hyperplane (Perceptron)

Hyperplane

Description

Hyperplane separating TEPAT and TERLAMBAT.
Intercept: -0.011019882381776685

Coefficients:

w(Jurusan_SMA = IPS)	= -0.189
w(Jurusan_SMA = IPA)	= 0.251
w(Jurusan_SMA = LAIR)	= -0.073
w(Gender = WANITA)	= 0.150
w(Gender = PRIA)	= -0.161
w(Asal_Sekolah = SURAKARTA)	= 0.012
w(Asal_Sekolah = LUAR)	= -0.023
w(Asisten = TIDAK)	= -0.150
w(Asisten = YA)	= 0.139
w(Rerata_SKS)	= 0.013

Data

Annotations

Repository

- Training Resources (connected)
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IN 11:20 27/11/2019

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) Hyperplane (Perceptron)

Data

Attribute	Weight
Jurusan...	-0.189
Jurusan...	0.251
Jurusan...	-0.073
Gender ...	0.150
Gender ...	-0.161
Asal_Se...	0.012
Asal_Se...	-0.023
Asisten ...	-0.150
Asisten ...	0.139
Rerata...	0.013

Description

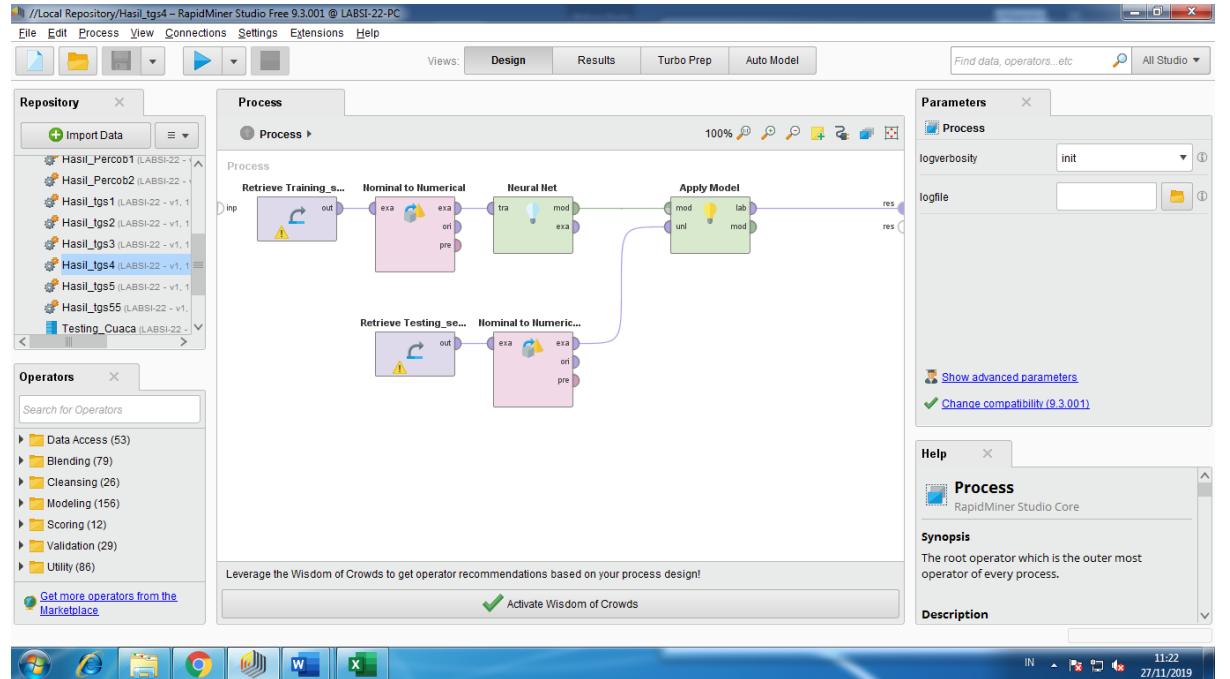
Annotations

Repository

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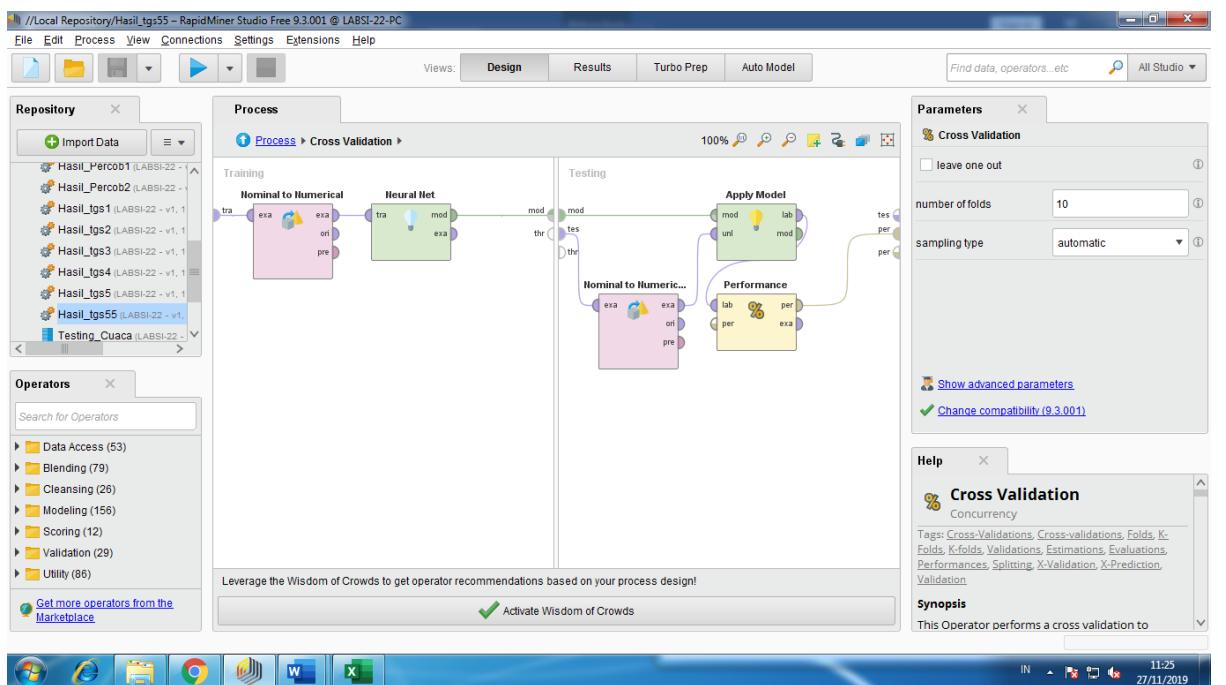
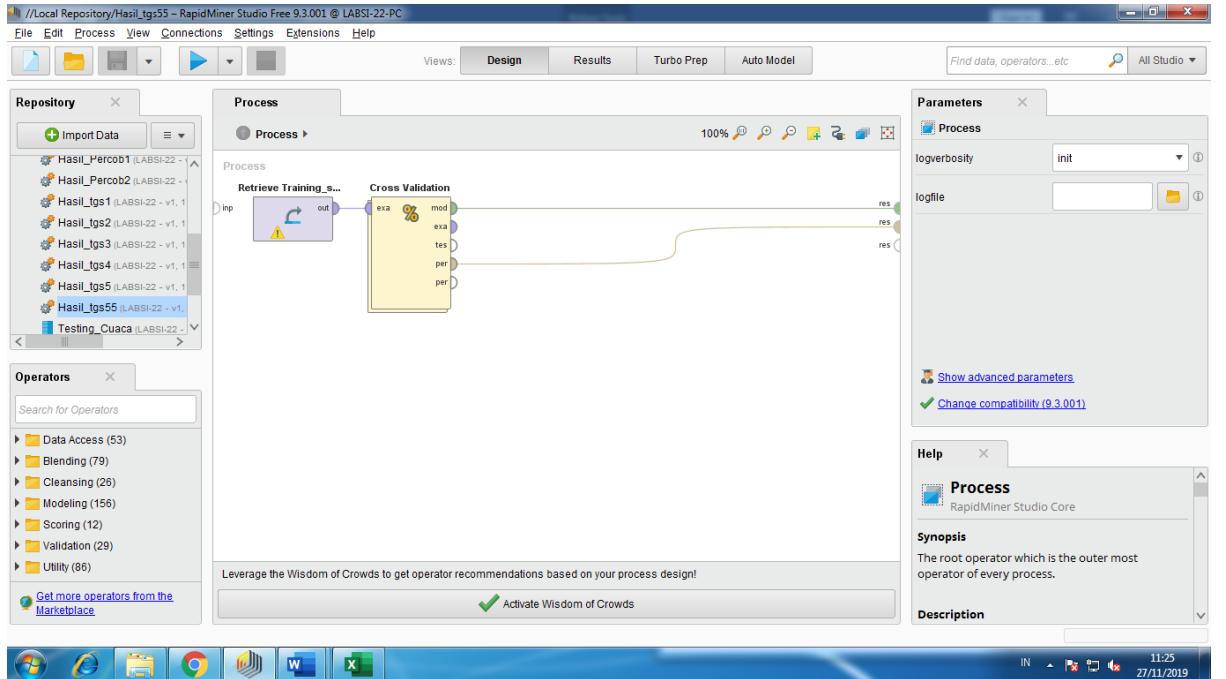
IN 11:20 27/11/2019

4. Ganti operator Perception menjadi Natural Net



prediction(L...)	confidence(...)	confidence(...)	Jurusan_S...	Jurusan_S...	Jurusan_S...	Gender = W...	Gender = PR...	Asal_Sekolah...	Asal....
TEPAT	0.331	0.669	1	0	0	1	0	1	0
TEPAT	0.027	0.973	0	1	0	0	1	1	0
TERLAMBAT	0.588	0.412	1	0	0	0	1	1	0
TERLAMBAT	0.679	0.321	0	0	1	0	1	0	1
TEPAT	0.399	0.601	1	0	0	1	0	1	0
TEPAT	0.032	0.968	0	1	0	1	0	0	1
TEPAT	0.399	0.601	0	1	0	0	1	1	0
TEPAT	0.325	0.675	0	1	0	0	1	1	0
TERLAMBAT	0.655	0.345	0	0	1	0	1	0	1
TEPAT	0.331	0.669	1	0	0	1	0	1	0

5. Nilai tingkat akurasi, presisi, dan reelal



File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators...etc All Studio

PerformanceVector (Performance)

Criterion: accuracy

accuracy: 60.00% +/- 31.62% (micro average: 60.00%)

	true TERLAMBAT	true TEPAT	class precision
pred. TERLAMBAT	3	4	42.86%
pred. TEPAT	4	9	69.23%
class recall	42.86%	69.23%	

Repository

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 - Testing_sekolah (LABSI-22 - v1, 11/27/19 9:13 AM)
 - Training_Cuaca (LABSI-22 - v1, 11/27/19 9:42 AM)
 - Training_sekolah (LABSI-22 - v1, 11/27/19 9:47 AM)

IN 11:25 27/11/2019

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators...etc All Studio

PerformanceVector (Performance)

PerformanceVector

accuracy: 60.00% +/- 31.62% (micro average: 60.00%)

ConfusionMatrix:

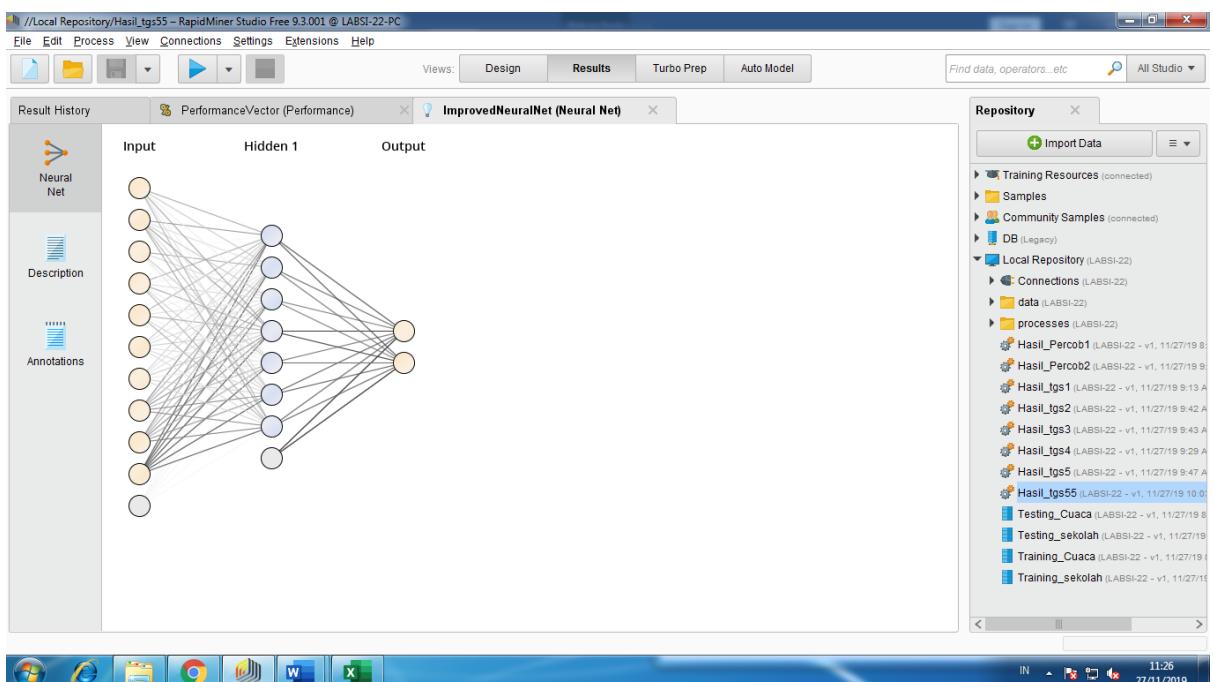
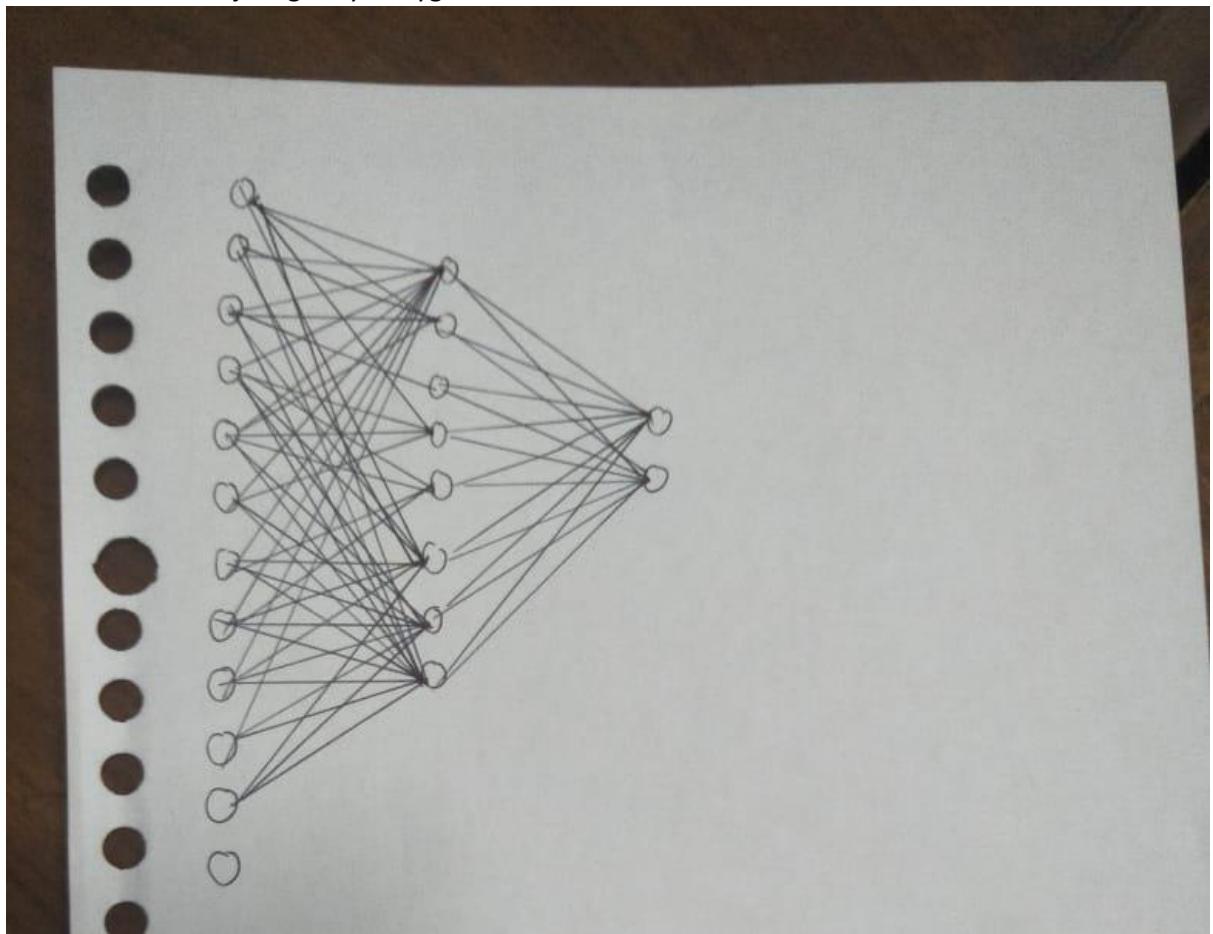
True:	TERLAMBAT	TEPAT
TERLAMBAT:	3	4
TEPAT:	4	9

Repository

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IN 11:26 27/11/2019

6. Gambar Arsitektur jaringan syaraf yg terbentuk



7. Jumlah node (simpul) masing-masing layer (lapisan) berdasarkan arsitektur JST
 - Input layer : 10 node
 - Hidden Layer : 8 node
 - Output layer : 2 node (TEPAT, TERLAMBAT)
8. Nilai-nilai bobot masing-masing node(simpul) pada hidden layer atau output layer

//Local Repository/Hasil_tgs55 – RapidMiner Studio Free 9.3.001 @ LABSI-22-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) ImprovedNeuralNet (Neural Net)

ImprovedNeuralNet

Hidden 1

Description

Node 1 (Sigmoid)

```
Jurusan_SMA = IPS: -0.448
Jurusan_SMA = IPA: 0.515
Jurusan_SMA = LAIN: -0.026
Gender = WANITA: 0.439
Gender = FRIAI: -0.399
Asal_Sekolah = SURAKARTA: 0.268
Asal_Sekolah = LUAR: -0.241
Asisten = TIDAK: -0.661
Asisten = YA: 0.639
Rerata_SKS: 0.940
Bias: -0.033
```

Node 2 (Sigmoid)

```
Jurusan_SMA = IPS: 0.269
Jurusan_SMA = IPA: 0.178
Jurusan_SMA = LAIN: -0.418
Gender = WANITA: -0.072
Gender = FRIAI: 0.065
Asal_Sekolah = SURAKARTA: 0.135
Asal_Sekolah = LUAR: -0.166
Asisten = TIDAK: -0.420
Asisten = YA: 0.379
```

Annotations

Repository

- + Import Data
- Training Resources (connected)
 - Samples
 - Community Samples (connected)
 - DB (Legacy)
- Local Repository (LABSI-22)
 - Connections (LABSI-22)
 - data (LABSI-22)
 - processes (LABSI-22)
 - Hasil_Percob1 (LABSI-22 - v1, 11/27/19 8:42 A)
 - Hasil_Percob2 (LABSI-22 - v1, 11/27/19 9:42 A)
 - Hasil_Igs1 (LABSI-22 - v1, 11/27/19 9:43 A)
 - Hasil_Igs2 (LABSI-22 - v1, 11/27/19 9:43 A)
 - Hasil_Igs3 (LABSI-22 - v1, 11/27/19 9:43 A)
 - Hasil_Igs4 (LABSI-22 - v1, 11/27/19 9:43 A)
 - Hasil_Igs5 (LABSI-22 - v1, 11/27/19 9:43 A)
 - Hasil_Igs6 (LABSI-22 - v1, 11/27/19 10:00 A)
 - Testing_Cuaca (LABSI-22 - v1, 11/27/19 8:42 A)
 - Testing_sekolah (LABSI-22 - v1, 11/27/19 8:42 A)
 - Training_Cuaca (LABSI-22 - v1, 11/27/19 8:42 A)
 - Training_sekolah (LABSI-22 - v1, 11/27/19 8:42 A)

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//Local Repository/Hasil_tgs55 – RapidMiner Studio Free 9.3.001 @ LABSI-22-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) ImprovedNeuralNet (Neural Net)

ImprovedNeuralNet

Description

Asisten = TIDAK: -0.420
Asisten = YA: 0.379
Rerata_SKS: 1.007
Bias: 0.025

Node 3 (Sigmoid)

```
Jurusan_SMA = IPS: -0.085
Jurusan_SMA = IPA: 0.282
Jurusan_SMA = LAIN: -0.208
Gender = WANITA: 0.195
Gender = FRIAI: -0.157
Asal_Sekolah = SURAKARTA: 0.188
Asal_Sekolah = LUAR: -0.158
Asisten = TIDAK: -0.492
Asisten = YA: 0.477
Rerata_SKS: 0.863
Bias: -0.060
```

Node 4 (Sigmoid)

```
Jurusan_SMA = IPS: -0.486
Jurusan_SMA = IPA: 0.540
Jurusan_SMA = LAIN: -0.004
Gender = WANITA: 0.451
Gender = FRIAI: -0.434
Asal_Sekolah = SURAKARTA: 0.251
Asal_Sekolah = LUAR: -0.282
Asisten = TIDAK: -0.599
Asisten = YA: 0.644
Rerata_SKS: 1.009
Bias: -0.055
```

Annotations

Repository

- + Import Data
- Training Resources (connected)
 - Samples
 - Community Samples (connected)
 - DB (Legacy)
- Local Repository (LABSI-22)
 - Connections (LABSI-22)
 - data (LABSI-22)
 - processes (LABSI-22)
 - Hasil_Percob1 (LABSI-22 - v1, 11/27/19 8:42 A)
 - Hasil_Percob2 (LABSI-22 - v1, 11/27/19 9:42 A)
 - Hasil_Igs1 (LABSI-22 - v1, 11/27/19 9:43 A)
 - Hasil_Igs2 (LABSI-22 - v1, 11/27/19 9:43 A)
 - Hasil_Igs3 (LABSI-22 - v1, 11/27/19 9:43 A)
 - Hasil_Igs4 (LABSI-22 - v1, 11/27/19 9:43 A)
 - Hasil_Igs5 (LABSI-22 - v1, 11/27/19 9:47 A)
 - Hasil_Igs6 (LABSI-22 - v1, 11/27/19 10:00 A)
 - Testing_Cuaca (LABSI-22 - v1, 11/27/19 8:42 A)
 - Testing_sekolah (LABSI-22 - v1, 11/27/19 8:42 A)
 - Training_Cuaca (LABSI-22 - v1, 11/27/19 8:42 A)
 - Training_sekolah (LABSI-22 - v1, 11/27/19 8:42 A)

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