

## Praktikum 1

Repository

- Import Data
- Data\_Testing (LABSI-18-PC)
- Data\_Training (LABSI-18-PC)
- DataCuaca\_Testing (LABSI-18-PC)
- DataCuaca\_Training (LABSI-18-PC)
- prak 1 (LABSI-18-PC)
- prak 2 (LABSI-18-PC)
- Tugas 1 (LABSI-18-PC)

Operators

performance

Predictive (7)

- Performance (Classification)
- Performance (Binary)
- Performance (Regression)
- Performance (Costs)
- Performance (Ranking)

No results were found.

Process

100%

Retrieve DataCuaca... Nominal to Numerical Perceptron Apply Model

Parameters

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

ExampleSet (/Local Repository/DataCuaca\_Testing)

ExampleSet (/Local Repository/DataCuaca\_Training)

ExampleSet (/Local Repository/DataCuaca\_Training)

ExampleSet (/Local Repository/DataCuaca\_Training)

Result History

ExampleSet (Apply Model)

ExampleSet (/Local Repository/DataCuaca\_Testing)

Open in Turbo Prep Auto Model

Filter (7 / 7 examples): all

Row No.	prediction(B...	confidence(...	confidence(...	Cuaca = Cer...	Cuaca = Me...	Cuaca = Huj...	Berangin = T...	Berangin = YA	Suhu	Kelembaban...
1	TIDAK	1.000	0.000	1	0	0	1	0	75	65
2	TIDAK	1.000	0.000	1	0	0	0	1	80	68
3	TIDAK	1.000	0.000	1	0	0	0	1	83	87
4	TIDAK	1	0	0	1	0	1	0	70	96
5	TIDAK	1.000	0.000	0	1	0	1	0	68	81
6	TIDAK	1.000	0.000	0	0	1	0	1	65	75
7	TIDAK	1	0	0	0	1	0	1	64	85

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

## Praktikum 2

Local Repository/prak 2\* - RapidMiner Studio Free 9.3.001 @ LABSI-18-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
- processes (LABSI-18-PC)
- Data\_Testing (LABSI-18-PC)
- Data\_Training (LABSI-18-PC)
- DataCuaca\_Testing (LABSI-18-PC)
- DataCuaca\_Training (LABSI-18-PC)
- prak 1 (LABSI-18-PC)
- prak 2 (LABSI-18-PC)
- Tugas 1 (LABSI-18-PC)

**Operators**

performance

Predictive (7)

- Performance (Classification)
- Performance (Binomial)
- Performance (Regression)
- Performance (Costs)
- Performance (Ranking)

No results were found.

**Process**

Process

Retrieve DataCuaca\_Training

Cross Validation

100%

**Parameters**

Retrieve DataCuaca\_Training (Retrieve)

repository entry y/DataCuaca\_Training

Show advanced parameters

**Help**

Retrieve

RapidMiner Studio Core

Tags: Load, Import, Read, Datasets, Examples, Example Set, Table, Repository, Data Access

**Synopsis**

This Operator can access stored information in the Repository and load them into the Process.

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

Activate Wisdom of Crowds

9:25 AM 11/27/2019

Local Repository/prak 2\* - RapidMiner Studio Free 9.3.001 @ LABSI-18-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
- processes (LABSI-18-PC)
- Data\_Testing (LABSI-18-PC)
- Data\_Training (LABSI-18-PC)
- DataCuaca\_Testing (LABSI-18-PC)
- DataCuaca\_Training (LABSI-18-PC)
- prak 1 (LABSI-18-PC)
- prak 2 (LABSI-18-PC)
- Tugas 1 (LABSI-18-PC)

**Operators**

performance

Predictive (7)

- Performance (Classification)
- Performance (Binomial)
- Performance (Regression)
- Performance (Costs)
- Performance (Ranking)

No results were found.

**Process**

Process > Cross Validation

90%

Training

Nominal to Numerical

Neural Net

Testing

Nominal to Numerical

Apply Model

Performance

**Parameters**

Performance (Performance (Classification))

main criterion first

☒ accuracy

☐ classification error

☐ kappa

☐ weighted mean recall

☐ weighted mean precision

☐ spearman rho

Show advanced parameters

**Help**

Performance (Classification)

RapidMiner Studio Core

Tags: Accuracy, Errors, Precision, Recall, Kappa, Squared, Relative Validations, Evaluations, Metrics, Predictive

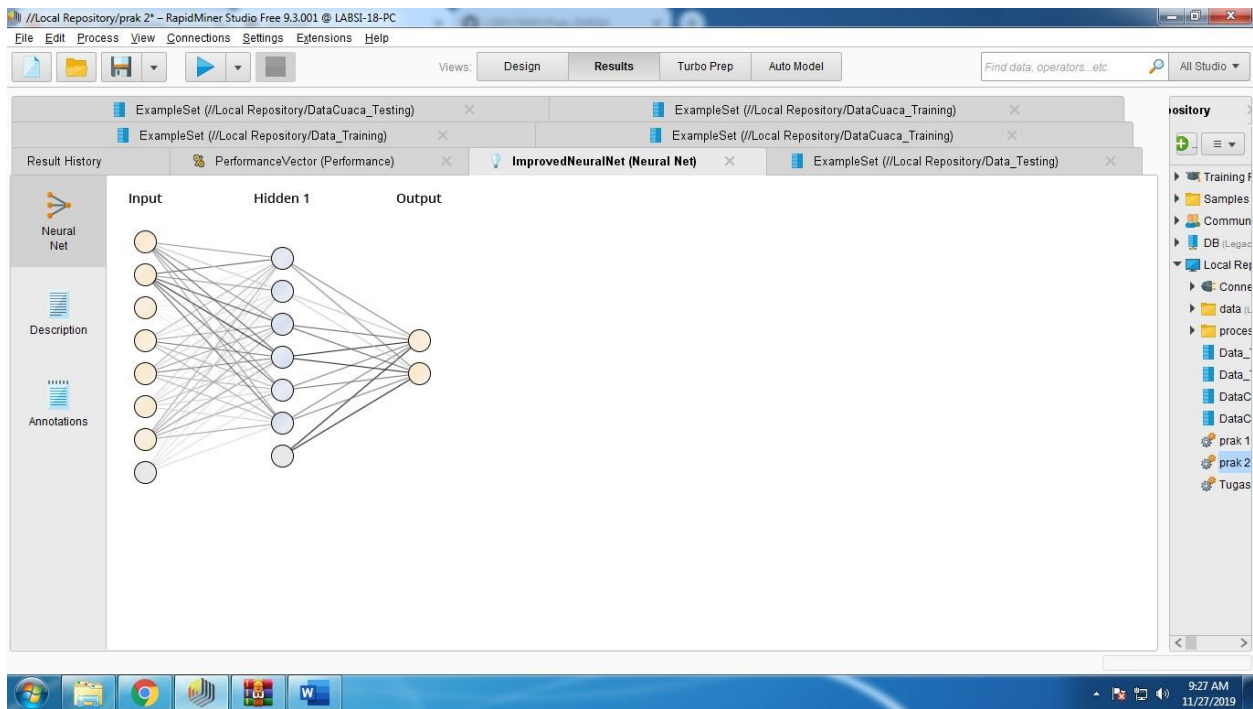
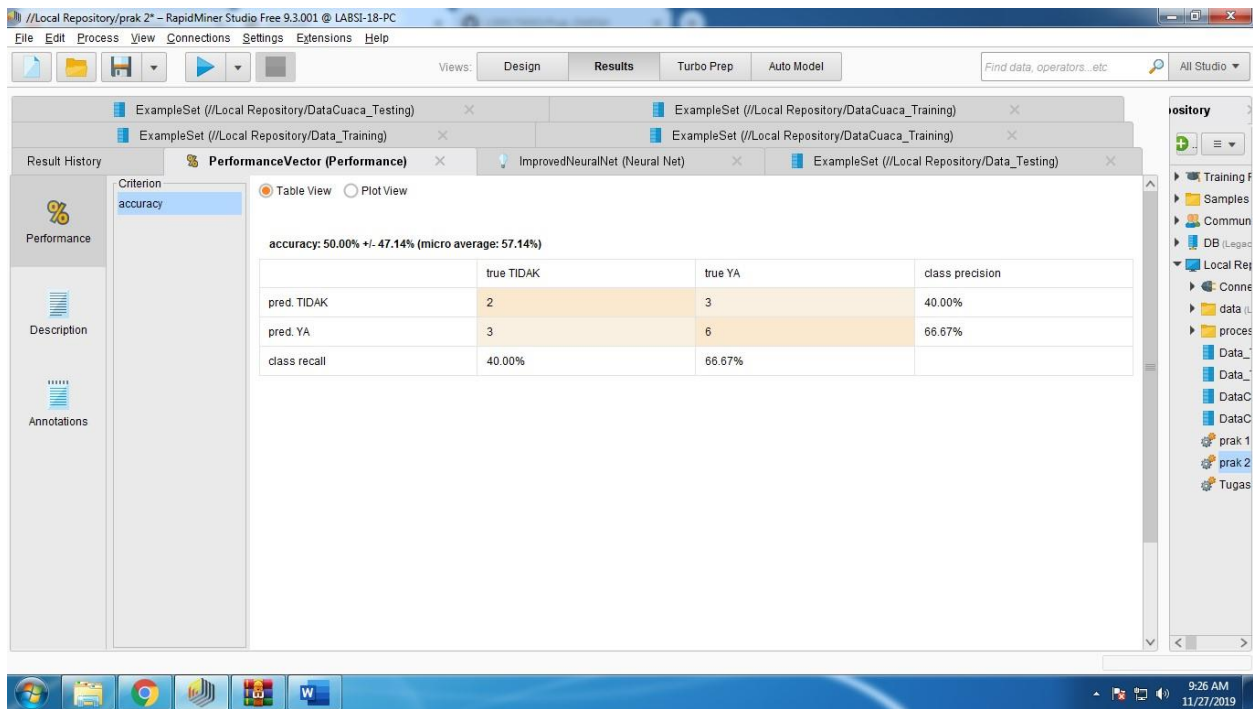
**Synopsis**

This operator is used for statistical performance evaluation of classification tasks. This operator delivers a

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

Activate Wisdom of Crowds

9:26 AM 11/27/2019



Local Repository/prak 2\* - RapidMiner Studio Free 9.3.001 @ LABSI-18-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/DataCuaca\_Testing) ExampleSet (//Local Repository/DataCuaca\_Training) ExampleSet (//Local Repository/DataCuaca\_Training) ExampleSet (//Local Repository/DataCuaca\_Training) ExampleSet (//Local Repository/DataCuaca\_Testing)

Result History PerformanceVector (Performance) ImprovedNeuralNet (Neural Net)

### ImprovedNeuralNet

Neural Net

Description

Annotations

Hidden 1

Node 1 (Sigmoid)

Cuaca = Cerah: -0.646  
Cuaca = Mendung: 0.985  
Cuaca = Hujan: -0.127  
Berangin = TIDAK: 0.491  
Berangin = YA: -0.496  
Suhu: -0.277  
Kelembaban\_udara: -0.596  
Bias: -0.213

Node 2 (Sigmoid)

Cuaca = Cerah: -0.371  
Cuaca = Mendung: 0.652  
Cuaca = Hujan: -0.118  
Berangin = TIDAK: 0.263  
Berangin = YA: -0.292  
Suhu: -0.178  
Kelembaban\_udara: -0.440  
Bias: -0.114

9:27 AM 11/27/2019

Local Repository/prak 2\* - RapidMiner Studio Free 9.3.001 @ LABSI-18-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/DataCuaca\_Testing) ExampleSet (//Local Repository/DataCuaca\_Training) ExampleSet (//Local Repository/DataCuaca\_Training) ExampleSet (//Local Repository/DataCuaca\_Testing)

Result History PerformanceVector (Performance) ImprovedNeuralNet (Neural Net)

### ImprovedNeuralNet

Neural Net

Description

Annotations

Node 3 (Sigmoid)

Cuaca = Cerah: -0.758  
Cuaca = Mendung: 1.156  
Cuaca = Hujan: -0.090  
Berangin = TIDAK: 0.579  
Berangin = YA: -0.633  
Suhu: -0.310  
Kelembaban\_udara: -0.642  
Bias: -0.197

Node 4 (Sigmoid)

Cuaca = Cerah: -1.035  
Cuaca = Mendung: 1.411  
Cuaca = Hujan: -0.099  
Berangin = TIDAK: 0.826  
Berangin = YA: -0.806  
Suhu: -0.492  
Kelembaban\_udara: -0.708  
Bias: -0.204

Node 5 (Sigmoid)

Cuaca = Cerah: -0.677  
Cuaca = Mendung: 1.023  
Cuaca = Hujan: -0.154  
Berangin = TIDAK: 0.520

9:27 AM 11/27/2019

Local Repository/prak 2 - RapidMiner Studio Free 9.3.001 @ LABSI-18-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/DataCuaca\_Testing) ExampleSet (/Local Repository/DataCuaca\_Training) ExampleSet (/Local Repository/DataCuaca\_Training) ExampleSet (/Local Repository/DataCuaca\_Training) ExampleSet (/Local Repository/DataCuaca\_Testing)

Result History PerformanceVector (Performance) ImprovedNeuralNet (Neural Net)

Neural Net

Description

Annotations

Node 5 (Sigmoid)

Cuaca = Cerah: -0.677  
Cuaca = Mendung: 1.023  
Cuaca = Hujan: -0.154  
Berangin = TIDAK: 0.520  
Berangin = YA: -0.514  
Suhu: -0.291  
Kelembaban\_udara: -0.628  
Bias: -0.217

Node 6 (Sigmoid)

Cuaca = Cerah: -0.647  
Cuaca = Mendung: 1.038  
Cuaca = Hujan: -0.086  
Berangin = TIDAK: 0.550  
Berangin = YA: -0.495  
Suhu: -0.290  
Kelembaban\_udara: -0.564  
Bias: -0.236

Output

=====  
Class 'TIDAK' (Sigmoid)

Repository

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prak 2  
Tugas

9:28 AM  
11/27/2019

Local Repository/prak 2 - RapidMiner Studio Free 9.3.001 @ LABSI-18-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/DataCuaca\_Testing) ExampleSet (/Local Repository/DataCuaca\_Training) ExampleSet (/Local Repository/DataCuaca\_Training) ExampleSet (/Local Repository/DataCuaca\_Training) ExampleSet (/Local Repository/DataCuaca\_Testing)

Result History PerformanceVector (Performance) ImprovedNeuralNet (Neural Net)

Neural Net

Description

Annotations

Berangin = YA: -0.495  
Suhu: -0.290  
Kelembaban\_udara: -0.564  
Bias: -0.236

Output

=====  
Class 'TIDAK' (Sigmoid)

Node 1: -0.780  
Node 2: -0.384  
Node 3: -0.957  
Node 4: -1.363  
Node 5: -0.816  
Node 6: -0.804  
Threshold: 1.505

Class 'YA' (Sigmoid)

Node 1: 0.770  
Node 2: 0.326  
Node 3: 0.976  
Node 4: 1.345  
Node 5: 0.856  
Node 6: 0.810  
Threshold: -1.495

Repository

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Tugas

9:28 AM  
11/27/2019



# Tugas

Local Repository/Tugas 1\* - RapidMiner Studio Free 9.3.001 @ LABSI-18-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
- processes (LABSI-18-PC)
- Data\_Testing (LABSI-18-PC)
- Data\_Training (LABSI-18-PC)
- DataCuaca\_Testing (LABSI-18-PC)
- DataCuaca\_Training (LABSI-18-PC)
- prak 1 (LABSI-18-PC)
- prak 2 (LABSI-18-PC)
- Tugas 1 (LABSI-18-PC)

**Operators**

performance

Predictive (7)

- Performance (Classification)
- Performance (Binomial)
- Performance (Regression)
- Performance (Costs)
- Performance (Ranking)

No results were found.

**Process**

Process

100%

Retrieve Data\_Training (Retrieve) → Nominal to Numerical (Nominal to Numerical) → Perceptron (Perceptron) → Apply Model (Apply Model)

Retrieve Data\_Testing (Retrieve) → Nominal to Numerical (Nominal to Numerical) → Apply Model (Apply Model)

**Parameters**

Retrieve Data\_Testing (Retrieve)

repository entry: Data\_Testing

Show advanced parameters

**Help**

Retrieve

RapidMiner Studio Core

Tags: Load, Import, Read, Datasets, Examples, Example Set, Table, Repository, Data Access

**Synopsis**

This Operator can access stored information in the Repository and load them into the Process.

Local Repository/Tugas 1\* - RapidMiner Studio Free 9.3.001 @ LABSI-18-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/DataCuaca\_Training) ExampleSet (//Local Repository/DataCuaca\_Testing) ExampleSet (//Local Repository/DataCuaca\_Training)

Result History ExampleSet (Apply Model) ExampleSet (//Local Repository/Data\_Testing) ExampleSet (//Local Repository/Data\_Training)

Open in Turbo Prep Auto Model

Filter (10 / 10 examples): all

Row No.	prediction(L...	confidence(L...	confidence(...	Jurusan_S...	Jurusan_S...	Jurusan_S...	Gender = W...	Gender = PR...	Asal_Sekola...	Asal_Sekola...	Asisten = TL...
1	TEPAT	0.462	0.538	1	0	0	1	0	1	0	1
2	TEPAT	0.385	0.615	0	1	0	0	1	1	0	0
3	TERLAMBAT	0.536	0.464	1	0	0	0	1	1	0	1
4	TERLAMBAT	0.579	0.421	0	0	1	0	1	0	1	1
5	TEPAT	0.465	0.535	1	0	0	1	0	1	0	1
6	TEPAT	0.325	0.675	0	1	0	1	0	0	1	0
7	TEPAT	0.458	0.542	0	1	0	0	1	1	0	1
8	TEPAT	0.455	0.545	0	1	0	0	1	1	0	1
9	TERLAMBAT	0.576	0.424	0	0	1	0	1	0	1	1
10	TEPAT	0.462	0.538	1	0	0	1	0	1	0	1

ExampleSet (10 examples, 3 special attributes, 10 regular attributes)

Asisten = YA	Rerata_Sek...
0	18
1	19
0	19
0	17
0	17
1	18
0	18

### 3. Perform Percept

PerformanceVector (Performance) Table View

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%	

### 4. Neural Net

ExampleSet (Apply Model) Table View

Filter (10 / 10 examples): all

Row No.	prediction(L...	confidence(L...	confidence(...	Jurusan_S...	Jurusan_S...	Jurusan_S...	Gender = W...	Gender = PR...	Asal_Sekola...	Asal_Sekola...	Asisten = TL...
1	TEPAT	0.331	0.669	1	0	0	1	0	1	0	1
2	TEPAT	0.027	0.973	0	1	0	0	1	1	0	0
3	TERLAMBAT	0.588	0.412	1	0	0	0	1	1	0	1
4	TERLAMBAT	0.679	0.321	0	0	1	0	1	0	1	1
5	TEPAT	0.399	0.601	1	0	0	1	0	1	0	1
6	TEPAT	0.032	0.968	0	1	0	1	0	0	1	0
7	TEPAT	0.399	0.601	0	1	0	0	1	1	0	1
8	TEPAT	0.325	0.675	0	1	0	0	1	1	0	1
9	TERLAMBAT	0.655	0.345	0	0	1	0	1	0	1	1
10	TEPAT	0.331	0.669	1	0	0	1	0	1	0	1

## 5. Performance Vector

Asisten = YA      Rerata\_Sek...

0	18
1	19
0	19
0	17
0	17
1	18
0	18
0	19
0	18
0	18

Local Repository/prak 2\* - RapidMiner Studio Free 9.3.001 @ LABSI-18-PC

File Edit Process View Connections Settings Extensions Help

Views: Design

ExampleSet (/Local Repository/DataCuaca\_Testing) x

ExampleSet (/Local Repository/Data\_Training) x

ExampleSet (/Local Repository/DataCuaca\_Training) x

Result History

PerformanceVector (Performance) x

ImprovedNeuralNet (Neural Net) x

ExampleSet (/Local Repository/Data\_Testing) x

Criterion accuracy

Table View Plot View

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%	

Performance

Description

Annotations

9:33 AM 11/27/2019

## 6.

Local Repository/prak 2\* - RapidMiner Studio Free 9.3.001 @ LABSI-18-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

processes (LABSI-18-PC)

- Data\_Testing (LABSI-18-PC)
- Data\_Training (LABSI-18-PC)
- DataCuaca\_Testing (LABSI-18-PC)
- DataCuaca\_Training (LABSI-18-PC)
- prak 1 (LABSI-18-PC)
- prak 2 (LABSI-18-PC)
- Tugas 1 (LABSI-18-PC)

Operators

neural

neural nets (4)

- Deep Learning
- Neural Net
- AutoMLP

We found "Self-Organizing Map", "Information Selection" and one more result in the Marketplace. [Show me!](#)

Process

Process

100%

Retrieve Data\_Training

Cross Validation

mod

exa

tes

per

per

Parameters

Retrieve Data\_Training (Retrieve)

repository entry Data\_Training

Show advanced parameters

Help

Retrieve

RapidMiner Studio Core

Tags: Load, Import, Read, Datasets, Examples, Example Set, Table, Repository, Data Access

Synopsis

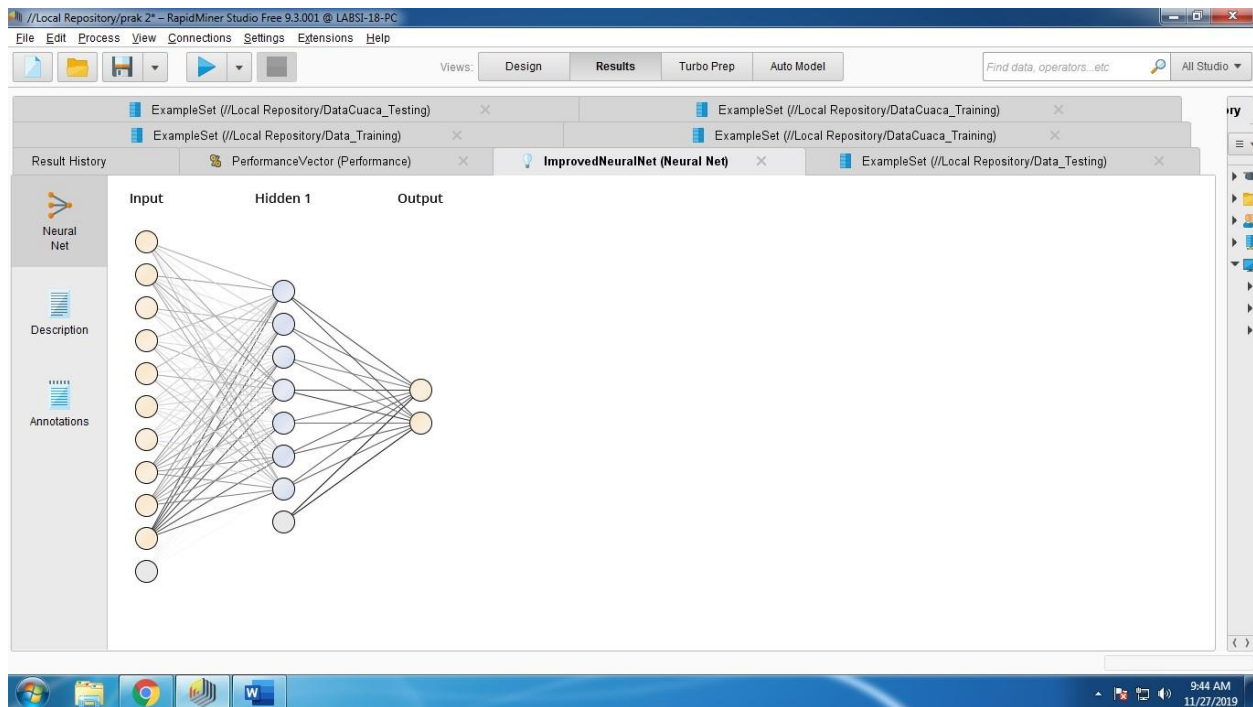
This Operator can access stored information in the Repository and load them into the Process.

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

Activate Wisdom of Crowds

9:44 AM 11/27/2019

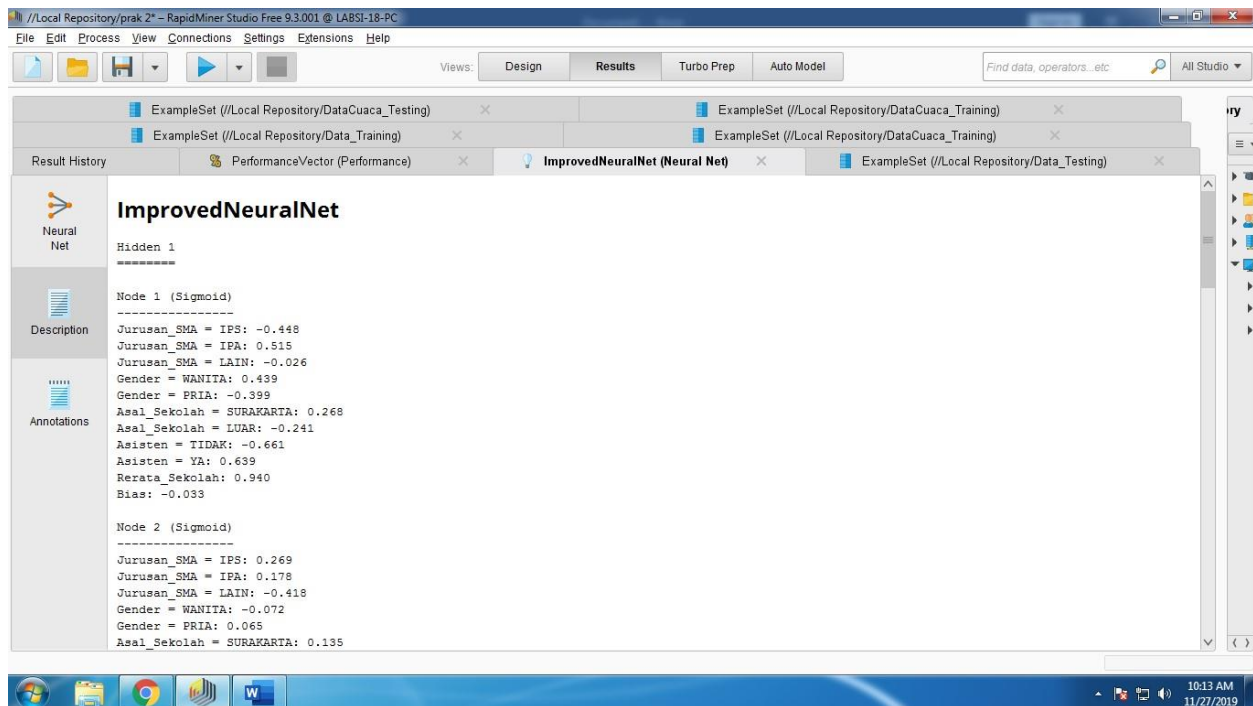




7.

- 1) Input Layer = 10 node
- 2) Hidden Layer = 7 node
- 3) Output = 2 node

8.



Local Repository/prak 2 - RapidMiner Studio Free 9.3.001 @ LABSI-18-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/DataCuaca\_Testing) ExampleSet (/Local Repository/DataCuaca\_Training)

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

Result History PerformanceVector (Performance) ImprovedNeuralNet (Neural Net) ExampleSet (/Local Repository/Data\_Testing)

Neural Net

Description

Annotations

Node 2 (Sigmoid)

Jurusan\_SMA = IPS: 0.269  
Jurusan\_SMA = IPA: 0.178  
Jurusan\_SMA = LAIN: -0.418  
Gender = WANITA: -0.072  
Gender = PRIA: 0.065  
Asal\_Sekolah = SURAKARTA: 0.135  
Asal\_Sekolah = LUAR: -0.166  
Asisten = TIDAK: -0.420  
Asisten = YA: 0.379  
Rerata\_Sekolah: 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 = PRIA: -0.157  
Asal\_Sekolah = SURAKARTA: 0.188  
Asal\_Sekolah = LUAR: -0.158  
Asisten = TIDAK: -0.492  
Asisten = YA: 0.477  
Rerata\_Sekolah: 0.863  
Bias: -0.060

10:13 AM  
11/27/2019

Local Repository/prak 2 - RapidMiner Studio Free 9.3.001 @ LABSI-18-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/DataCuaca\_Testing) ExampleSet (/Local Repository/DataCuaca\_Training)

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

Result History PerformanceVector (Performance) ImprovedNeuralNet (Neural Net) ExampleSet (/Local Repository/Data\_Testing)

Neural Net

Description

Annotations

Node 4 (Sigmoid)

Jurusan\_SMA = IPS: -0.486  
Jurusan\_SMA = IPA: 0.540  
Jurusan\_SMA = LAIN: -0.004  
Gender = WANITA: 0.451  
Gender = PRIA: -0.434  
Asal\_Sekolah = SURAKARTA: 0.251  
Asal\_Sekolah = LUAR: -0.282  
Asisten = TIDAK: -0.599  
Asisten = YA: 0.644  
Rerata\_Sekolah: 1.009  
Bias: -0.055

Node 5 (Sigmoid)

Jurusan\_SMA = IPS: 0.079  
Jurusan\_SMA = IPA: 0.202  
Jurusan\_SMA = LAIN: -0.284  
Gender = WANITA: 0.085  
Gender = PRIA: -0.068  
Asal\_Sekolah = SURAKARTA: 0.150  
Asal\_Sekolah = LUAR: -0.122  
Asisten = TIDAK: -0.410  
Asisten = YA: 0.448  
Rerata\_Sekolah: 0.951  
Bias: 0.041

10:13 AM  
11/27/2019

Local Repository/prak 2\* - RapidMiner Studio Free 9.3.001 @ LABSI-18-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/DataCuaca\_Testing) ExampleSet (/Local Repository/DataCuaca\_Training)

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

Result History PerformanceVector (Performance) ImprovedNeuralNet (Neural Net) ExampleSet (/Local Repository/Data\_Testing)

Neural Net

Description

Annotations

Node 6 (Sigmoid)

Jurusan\_SMA = IPS: -0.173  
Jurusan\_SMA = IPA: 0.382  
Jurusan\_SMA = LAIN: -0.133  
Gender = WANITA: 0.248  
Gender = PRIA: -0.236  
Asal\_Sekolah = SURAKARTA: 0.201  
Asal\_Sekolah = LUAR: -0.222  
Asisten = TIDAK: -0.587  
Asisten = YA: 0.549  
Rerata\_Sekolah: 0.962  
Bias: 0.023

Node 7 (Sigmoid)

Jurusan\_SMA = IPS: -0.397  
Jurusan\_SMA = IPA: 0.486  
Jurusan\_SMA = LAIN: 0.023  
Gender = WANITA: 0.411  
Gender = PRIA: -0.430  
Asal\_Sekolah = SURAKARTA: 0.187  
Asal\_Sekolah = LUAR: -0.217  
Asisten = TIDAK: -0.577  
Asisten = YA: 0.646  
Rerata\_Sekolah: 0.878  
Bias: -0.036

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11/27/2019

Local Repository/prak 2\* - RapidMiner Studio Free 9.3.001 @ LABSI-18-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/DataCuaca\_Testing) ExampleSet (/Local Repository/DataCuaca\_Training)

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

Result History PerformanceVector (Performance) ImprovedNeuralNet (Neural Net) ExampleSet (/Local Repository/Data\_Testing)

Neural Net

Description

Annotations

Rerata\_Sekolah: 0.878  
Bias: -0.036

Output

Class 'TERLAMBAT' (Sigmoid)

Node 1: -0.961  
Node 2: -0.814  
Node 3: -0.681  
Node 4: -0.983  
Node 5: -0.718  
Node 6: -0.864  
Node 7: -0.862  
Threshold: 1.265

Class 'TEPAT' (Sigmoid)

Node 1: 0.956  
Node 2: 0.762  
Node 3: 0.705  
Node 4: 0.995  
Node 5: 0.742  
Node 6: 0.844  
Node 7: 0.861  
Threshold: -1.257

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11/27/2019

## 9. Kesimpulanya

Akurasi Neural lebih besar dari perceptron

