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Kelas : C

LATIHAN

Import Data - Format your columns. ✕

Format your columns.

Date format MMM d, yyyy h:mm:ss a z ⌵

☐ Replace errors with missing values ?

	Cuaca <i>polynominal</i> ⚙ ⌵	Suhu <i>integer</i> ⚙ ⌵	Kelembaban_... <i>integer</i> ⚙ ⌵	Berangin <i>polynominal</i> ⚙ ⌵	Bermain_Tenis <i>binominal label</i> ⚙ ⌵
1	Cerah	85	85	TIDAK	TIDAK
2	Cerah	80	90	YA	TIDAK
3	Mendung	83	86	TIDAK	YA
4	Hujan	70	96	TIDAK	TIDAK
5	Hujan	68	80	TIDAK	YA
6	Hujan	65	70	YA	TIDAK
7	Mendung	64	65	YA	YA
8	Cerah	72	95	TIDAK	TIDAK
9	Cerah	69	70	TIDAK	YA
10	Hujan	75	80	TIDAK	YA
11	Cerah	75	70	YA	YA
12	Mendung	72	90	YA	YA
13	Mendung	84	75	TIDAK	YA

✓ no problems.

⬅ Previous Next ➡ ✕ Cancel

<new process> - RapidMiner Studio Free 9.0.003 @ DESKTOP-7UM84PR

File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

Repository

+ Import Data

- Tabel Testing (Person - V)
- Tabel Training dan Test
- Tabel_Cuaca (Person - V)
- Tabel_Cuaca1 (Person - V)
- Tabel_Cuaca2 (Person - V)
- Tabel_Cuaca11 (Person - V)
- Tabel_CuacaTesting (P)
- Tabel_CuacaTraining (P)

Operators

perfor

- Performance (17)
- Predictive (7)
- Performance (C)
- Performance (Bin)
- Performance (Re)

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

Process

Process > Cross Validation

100%

Training

Decision Tree

Testing

Apply Model

Performance

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 \(9.0.003\)](#)

Help

Cross Validation

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

Activate Wisdom of Crowds

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File Edit Process View Connections Cloud Settings Extensions Help

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Find data, operators, etc. All Studio

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- Performance (Re)

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

Process

Process >

100%

Process

Retrieve Tabel_Cuac...

Cross Validation

Parameters

Process

- logverbosity: init
- logfile:
- resultfile:
- random seed: 2001
- send mail: never
- encoding: SYSTEM

[Hide advanced parameters](#)

[Change compatibility \(9.0.003\)](#)

Help

Process

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

Activate Wisdom of Crowds

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File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

ExampleSet (/Local Repository/Tabel_Cuaca2) ExampleSet (/Local Repository/Tabel_Cuaca1)

Result History

Performance

Criterion accuracy

Table View Plot View

accuracy: 60.00% +/- 43.59% (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%	

class recall

Repository

- Import Data
- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB
- Local Repository (LABSI-01)
 - Connections (LABSI-01)
 - data (LABSI-01)
 - processes (LABSI-01)
 - Book1 (Person - v1, 11/14/19 3:20 PM -
 - Cuaca (Person - v1, 11/7/19 10:58 AM -
 - CuacaTesting (Person - v1, 11/7/19 11:58 AM -
 - data1 (Person - v1, 10/16/19 11:58 AM -
 - Data_LamaBelajardanNilaiUjian (Pe
 - Data_NilaiUjian (Person - v1, 11/14/19
 - Data_PrediksiNilaiUjian (Person - v1,
 - DataCuaca_Testing (LABSI-01 - v1, 1
 - DataCuaca_Training (LABSI-01 - v1, 1
 - Datasetolah_Training (LABSI-01 - v1,
 - dataTesting1.arff (Person - v1, 10/17/19
 - dataTesting2222.arff (Person - v1, 10/1
 - dataTraining1.arff (Person - v1, 10/17/1

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File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

ExampleSet (/Local Repository/Tabel_Cuaca2) ExampleSet (/Local Repository/Tabel_Cuaca1)

Result History

PerformanceVector (Performance)

Tree (Decision Tree)

Zoom

Tree

Node Labels

Edge Labels

Graph

Description

Annotations

Decision Tree:

```
graph TD
    Cuaca --> Cerah
    Cuaca --> Hujan
    Cuaca --> Mendung
    Cerah --> Kelembaban_udara
    Kelembaban_udara -- "> 77.500& 77.500" --> TIDAK
    Kelembaban_udara -- "> 77.500& 77.500" --> YA
    Hujan --> Berangin
    Berangin --> TIDAK
    Berangin --> YA
    Mendung --> YA
    Mendung --> TIDAK
```

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File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

Repository

+ Import Data

- Tabel Testing (Person - v1)
- Tabel Training dan Test (Person - v1)
- Tabel_Cuaca (Person - v1)
- Tabel_Cuaca1 (Person - v1)
- Tabel_Cuaca2 (Person - v1)
- Tabel_Cuaca11 (Person - v1)
- Tabel_CuacaTesting (Person - v1)
- Tabel_CuacaTraining (Person - v1)

Operators

perform

- Performance (17)
- Predictive (7)
- Performance (Classification)
- Performance (Binary)
- Performance (Regression)

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

Process

Process > Cross Validation

100%

Training

Testing

Rule Induction

Apply Model

Performance

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

Activate Wisdom of Crowds

Parameters

Data Editor

Rule Induction

criterion: information_gain

sample ratio: 0.9

purity: 0.9

minimal prune benefit: 0.25

☐ use local random seed

[Hide advanced parameters](#)

Help

Rule Induction

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File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

ExampleSet (/Local Repository/Tabel_Cuaca2)

ExampleSet (/Local Repository/Tabel_Cuaca1)

Result History

PerformanceVector (Performance)

RuleModel (Rule Induction)

RuleModel

Description

```

if Kelembaban_udara ≤ 82.500 then YA (1 / 6)
if Cuaca = Cerah then TIDAK (3 / 0)
if Cuaca = Mendung then YA (0 / 2)
if Suhu ≤ 70.500 then YA (0 / 1)
else TIDAK (0 / 0)

```

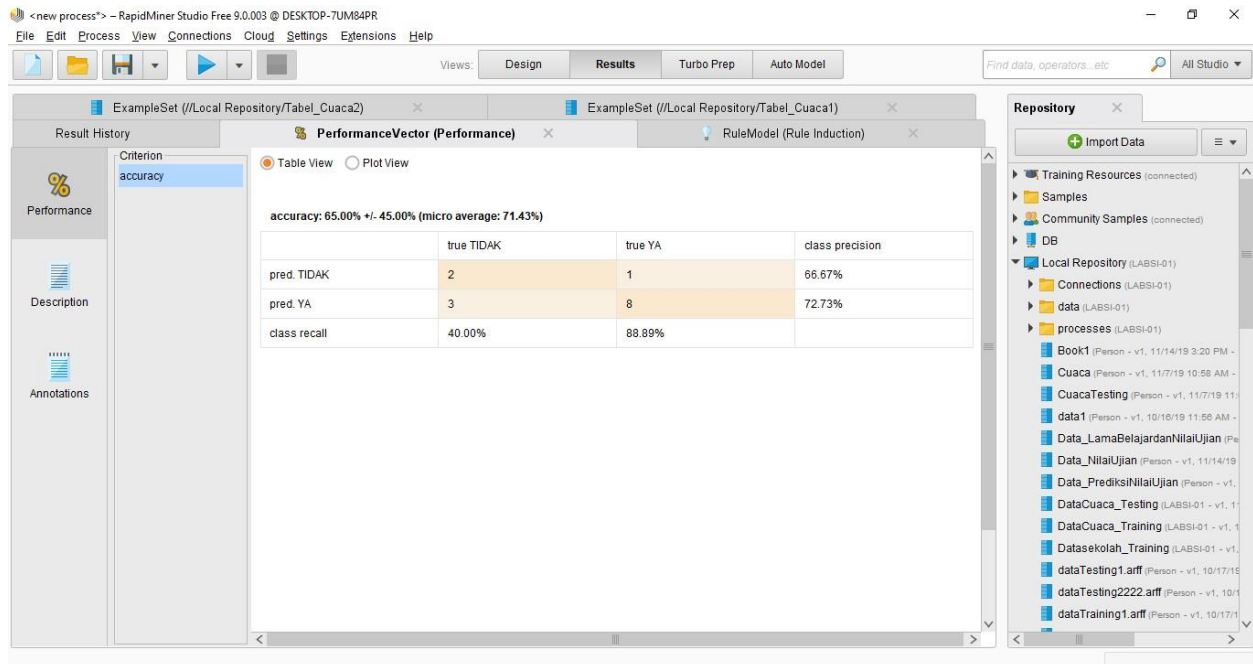
Annotations

correct: 12 out of 13 training examples.

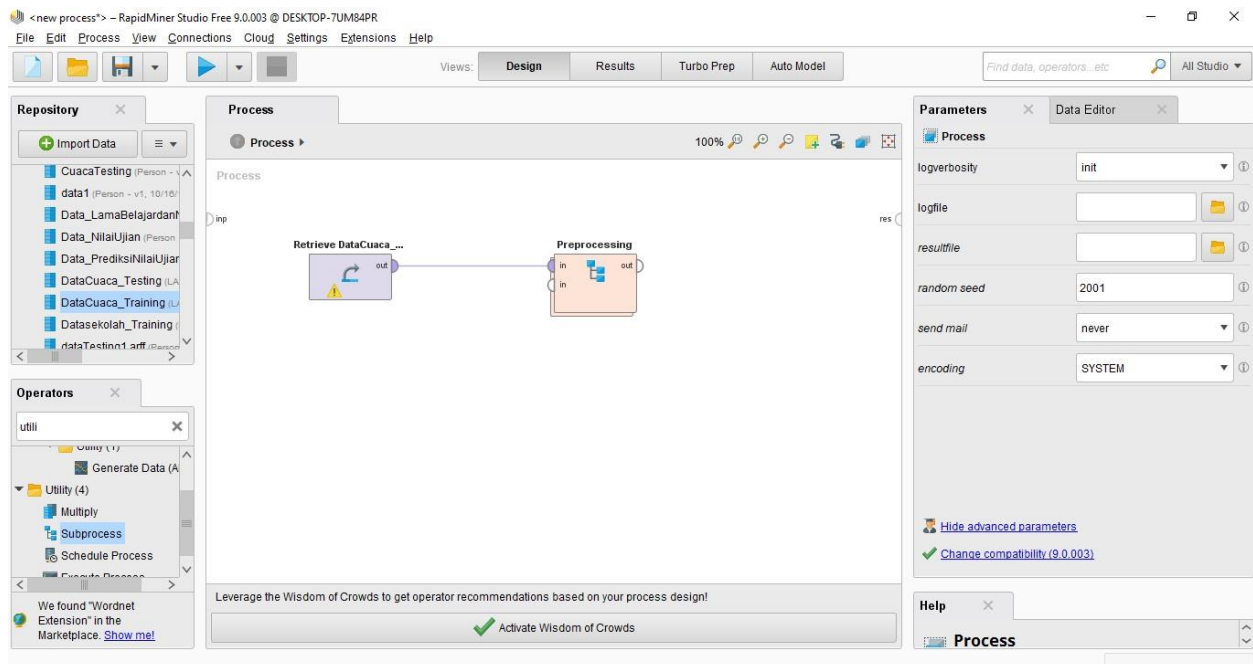
Repository

+ Import Data

- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB
- Local Repository (LABSI-01)
 - Connections (LABSI-01)
 - data (LABSI-01)
 - processes (LABSI-01)
 - Book1 (Person - v1, 11/14/19 3:20 PM -)
 - Cuaca (Person - v1, 11/7/19 10:58 AM -)
 - CuacaTesting (Person - v1, 11/7/19 11:11:11 AM -)
 - data1 (Person - v1, 10/16/19 11:58 AM -)
 - Data_LamaBelajardanNilaiUjian (Person - v1, 11/14/19 11:11:11 AM -)
 - Data_NilaiUjian (Person - v1, 11/14/19 11:11:11 AM -)
 - Data_PrediksiNilaiUjian (Person - v1, 11/14/19 11:11:11 AM -)
 - DataCuaca_Testing (LABSI-01 - v1, 11/14/19 11:11:11 AM -)
 - DataCuaca_Training (LABSI-01 - v1, 11/14/19 11:11:11 AM -)
 - DataSekolah_Training (LABSI-01 - v1, 11/14/19 11:11:11 AM -)
 - dataTesting1.arff (Person - v1, 10/17/19 11:11:11 AM -)
 - dataTesting2222.arff (Person - v1, 10/17/19 11:11:11 AM -)
 - dataTraining1.arff (Person - v1, 10/17/19 11:11:11 AM -)



11.4.2.



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File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

Repository

- Import Data
- CuacaTesting (Person - v1, 10/19/2019)
- data1 (Person - v1, 10/19/2019)
- Data_LamaBelajardant
- Data_NilaiUjian (Person)
- Data_PrediksiNilaiUjian
- DataCuaca_Testing (LA)
- DataCuaca_Training (LA)
- Datasekolah_Training
- dataTestinn1.arff (Dataset)

Operators

Search for Operators

- Numerical to Real
- Numerical to Real
- Real to Integer
- Nominal to Binomial
- Nominal to Text
- Nominal to Numerical

Get more operators from the Marketplace

Process

Process > Preprocessing

Preprocessing

100%

Discretize

Nominal to Binomial

in out

exa out pre

exa out pre

out

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

Activate Wisdom of Crowds

Parameters

Preprocessing (Subprocess)

No parameters to display.

Help

Subprocess

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File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

Repository

- Import Data
- CuacaTesting (Person - v1, 10/19/2019)
- data1 (Person - v1, 10/19/2019)
- Data_LamaBelajardant
- Data_NilaiUjian (Person)
- Data_PrediksiNilaiUjian
- DataCuaca_Testing (LA)
- DataCuaca_Training (LA)
- Datasekolah_Training
- dataTestinn1.arff (Dataset)

Operators

Search for Operators

- Associations (6)
- FP-Growth
- Create Association Rules
- Apply Association Rules
- Generalized Sequential Pattern Mining
- Item Sets to Data
- Utility Item Sets

Get more operators from the Marketplace

Process

Process > Process

Process

100%

Retrieve DataCuaca_Testing

Preprocessing

FP-Growth

in out

exa out pre

exa out pre

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

encoding SYSTEM

Hide advanced parameters

Change compatibility (9.0.003)

Help

Process

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File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

Repository

Import Data

- CuacaTesting (Person - v1, 10/16/19)
- data1 (Person - v1, 10/16/19)
- Data_LamaBelajardanNilaiUjian (Person - v1, 11/14/19)
- Data_NilaiUjian (Person - v1, 11/14/19)
- Data_PrediksiNilaiUjian (Person - v1, 11/14/19)
- DataCuaca_Testing (LABSI-01 - v1, 11/20/19)
- DataCuaca_Training (LABSI-01 - v1, 11/20/19)
- Datasekolah_Training (LABSI-01 - v1, 11/20/19)
- dataTesting1.arff (Person - v1, 10/17/19)
- dataTraining1.arff (Person - v1, 10/17/19)
- dataTraining2222.arff (Person - v1, 10/17/19)
- hasil_cuaca (Person - v1, 11/7/19 3:13)
- Lokasi_Testing (Person - v1, 10/16/19)
- Lokasi_Training (Person - v1, 10/16/19)
- M1 (Person - v1, 11/20/19 1:16 PM - 2 KB)
- M11-induksi (Person - v1, 11/21/19 10:5)
- M@ (Person - v1, 11/20/19 1:20 PM - 5 KB)
- MODUL10 (Person - v1, 11/16/19 1:33 PM)
- modul11.1 (LABSI-01 - v1, 11/20/19 1:1)
- modul11.2 (LABSI-01 - v1, 11/20/19 1:2)
- percep33n11 (Person - v1, 11/21/19 1:1)

Operators

Search for Operators

- Predictive (61)
- Segmentation (14)
- Associations (6)
- FP-Growth
- Create Association F
- Apply Association Ru
- Generalized Sequen

Get more operators from the Marketplace

Process

Process

100%

Retrieve DataCuaca...

Preprocessing

FP-Growth

Create Association...

Logfile

random seed

send mail

encoding

Hide advanced parameters

Change compatibility (9.0.003)

Help

Process

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

Activate Wisdom of Crowds

Click to select, drag to move.

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File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

AssociationRules (Create Association Rules)

ExampleSet (Nominal to Binomial)

FrequentItemSets (FP-Growth)

Result History

No. of Sets: 26

Total Max. Size: 4

Min. Size: 1

Max. Size: 4

Contains Item:

Update View

Size	Support	Item 1	Item 2	Item 3	Item 4
1	0.500	Kelembaban_udara			
1	0.429	Berangin			
1	0.429	Suhu			
1	0.357	Cuaca = Cerah			
1	0.357	Cuaca = Hujan			
1	0.286	Cuaca = Mendung			
2	0.214	Kelembaban_udara	Berangin		
2	0.214	Kelembaban_udara	Suhu		
2	0.214	Kelembaban_udara	Cuaca = Cerah		
2	0.143	Kelembaban_udara	Cuaca = Hujan		
2	0.143	Kelembaban_udara	Cuaca = Mendung		
2	0.143	Berangin	Suhu		
2	0.143	Berangin	Cuaca = Cerah		
2	0.143	Berangin	Cuaca = Hujan		
2	0.143	Berangin	Cuaca = Mendung		

Repository

Import Data

- CuacaTesting (Person - v1, 11/7/19 11:1)
- data1 (Person - v1, 10/16/19 11:56 AM -)
- Data_LamaBelajardanNilaiUjian (Pe
- Data_NilaiUjian (Person - v1, 11/14/19)
- Data_PrediksiNilaiUjian (Person - v1,
- DataCuaca_Testing (LABSI-01 - v1, 1
- DataCuaca_Training (LABSI-01 - v1, 1
- Datasekolah_Training (LABSI-01 - v1,
- dataTesting1.arff (Person - v1, 10/17/19)
- dataTesting2222.arff (Person - v1, 10/17/19)
- dataTraining1.arff (Person - v1, 10/17/19)
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- M@ (Person - v1, 11/20/19 1:20 PM - 5 KB)
- MODUL10 (Person - v1, 11/16/19 1:33 PM)
- modul11.1 (LABSI-01 - v1, 11/20/19 1:1)
- modul11.2 (LABSI-01 - v1, 11/20/19 1:2)
- percep33n11 (Person - v1, 11/21/19 1:1)

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File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

Result History

AssociationRules (Create Association Rules) ExampleSet (Nominal to Binomial)

Show rules matching

all of these conclusions:

Suhu

Cuaca = Cerah

Min. Criterion: confidence

Min. Criterion Value:

No.	Premises	Conclusion	Support
1	Berangin, Suhu	Cuaca = Cerah	0.143
2	Berangin, Cuaca = Cerah	Suhu	0.143
3	Kelembaban_udara, Berangin, Suhu	Cuaca = Cerah	0.071
4	Kelembaban_udara, Berangin, Cuaca = Cerah	Suhu	0.071

Repository

Import Data

- CuacaTesting (Person - v1, 11/7/19 11:11)
- data1 (Person - v1, 10/16/19 11:56 AM)
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- dataTraining2222.arff (Person - v1, 10/17/19 11:11)
- hasil_cuaca (Person - v1, 11/7/19 3:13)
- Lokasi_Testing (Person - v1, 10/16/19 11:56 AM)
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- modul11.2 (LABSI-01 - v1, 11/20/19 1:11)
- modul11.3 (LABSI-01 - v1, 11/20/19 1:11)

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File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

Result History

AssociationRules (Create Association Rules) ExampleSet (Nominal to Binomial)

Zoom

ISOM

Node Labels

Edge Labels

Filter

Show rules matching

all of these conclusions:

Suhu

Cuaca = Cerah

Min. Criterion: confidence

Min. Criterion Value:

Rule 1 (0.143 / 1.000)

Rule 2 (0.143 / 1.000)

Rule 3 (0.071 / 1.000)

Rule 4 (0.071 / 1.000)

Kelembaban_udara

Suhu

Cuaca = Cerah

Berangin

Repository

Import Data

- CuacaTesting (Person - v1, 11/7/19 11:11)
- data1 (Person - v1, 10/16/19 11:56 AM)
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- modul11.3 (LABSI-01 - v1, 11/20/19 1:11)

