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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 ?

	<b>Cuaca</b> <i>polynominal</i> <span>⚙</span> <span>▾</span>	<b>Suhu</b> <i>integer</i> <span>⚙</span> <span>▾</span>	<b>Kelembaban_...</b> <i>integer</i> <span>⚙</span> <span>▾</span>	<b>Berangin</b> <i>polynominal</i> <span>⚙</span> <span>▾</span>	<b>Bermain_Tenis</b> <i>binominal label</i> <span>⚙</span> <span>▾</span>
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	81	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 (Cl)
- 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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Find data, operators, etc. All Studio

**Repository**

+ Import Data

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- Tabel Training dan Test
- Tabel\_Cuaca (Person - V)
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- Tabel\_Cuaca2 (Person - V)
- Tabel\_Cuaca11 (Person - V)
- Tabel\_CuacaTesting (P)
- Tabel\_CuacaTraining (P)

**Operators**

perfor

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

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

**Process**

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](#)

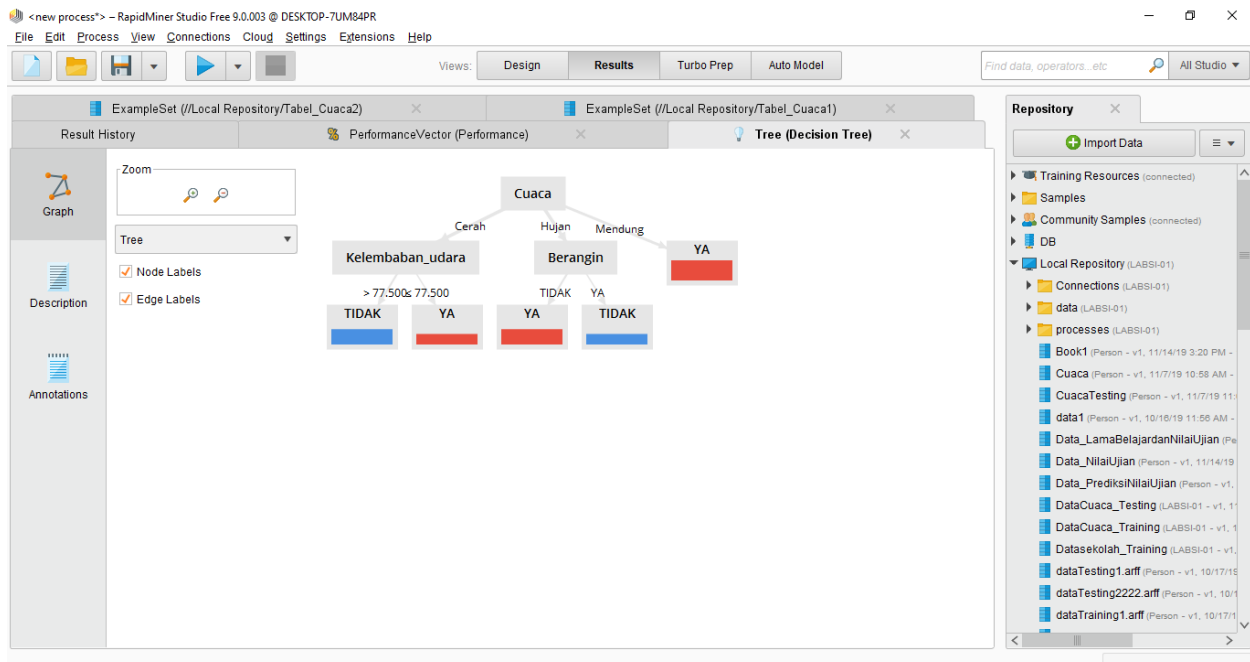
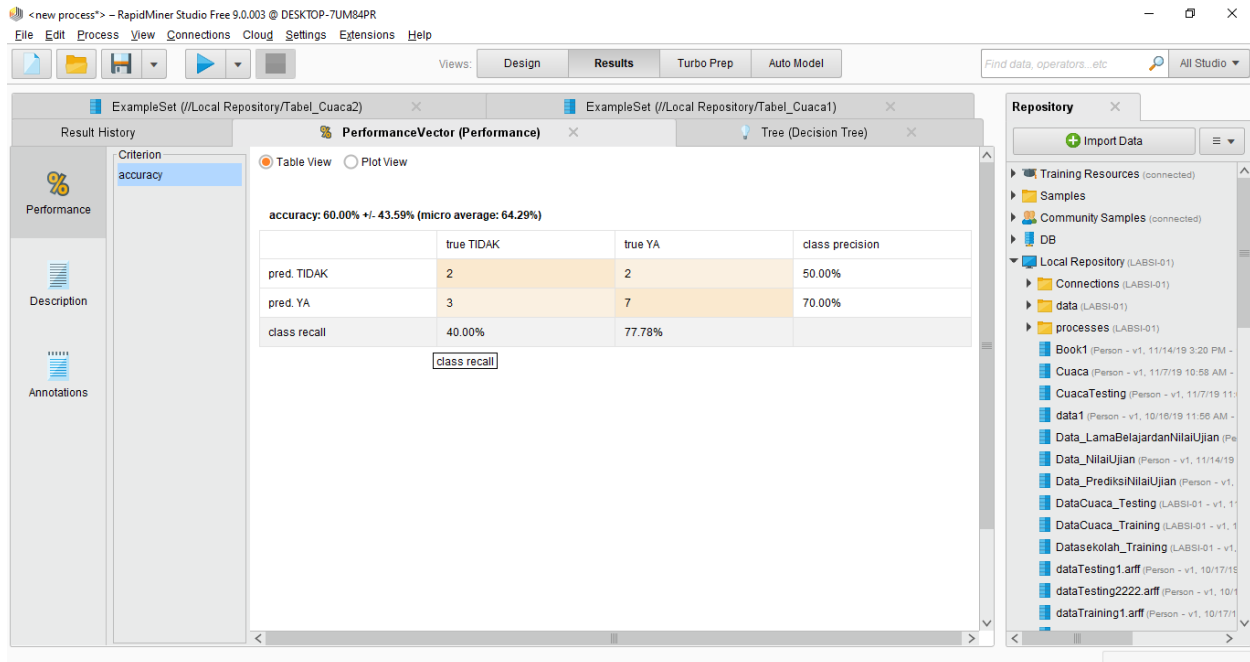
[Change compatibility \(9.0.003\)](#)

**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

**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**

perfor

- 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: tra, Rule Induction, mod, exa

Testing: mod, tes, thr, Apply Model, lab, mod, per, tes, per

**Parameters**

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

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

Activate Wisdom of Crowds

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Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

**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 AM)
- data1 (Person - v1, 10/16/19 11:55 AM)
- 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, 11/14/19)
- DataCuaca\_Training (LABSI-01 - v1, 11/14/19)
- Datasekolah\_Training (LABSI-01 - v1, 11/14/19)
- dataTesting1.arff (Person - v1, 10/17/19)
- dataTesting2222.arff (Person - v1, 10/17/19)
- dataTraining1.arff (Person - v1, 10/17/19)

**Result History**

- ExampleSet (/Local Repository/Tabel\_Cuaca2)
- ExampleSet (/Local Repository/Tabel\_Cuaca1)
- PerformanceVector (Performance)
- RuleModel (Rule Induction)

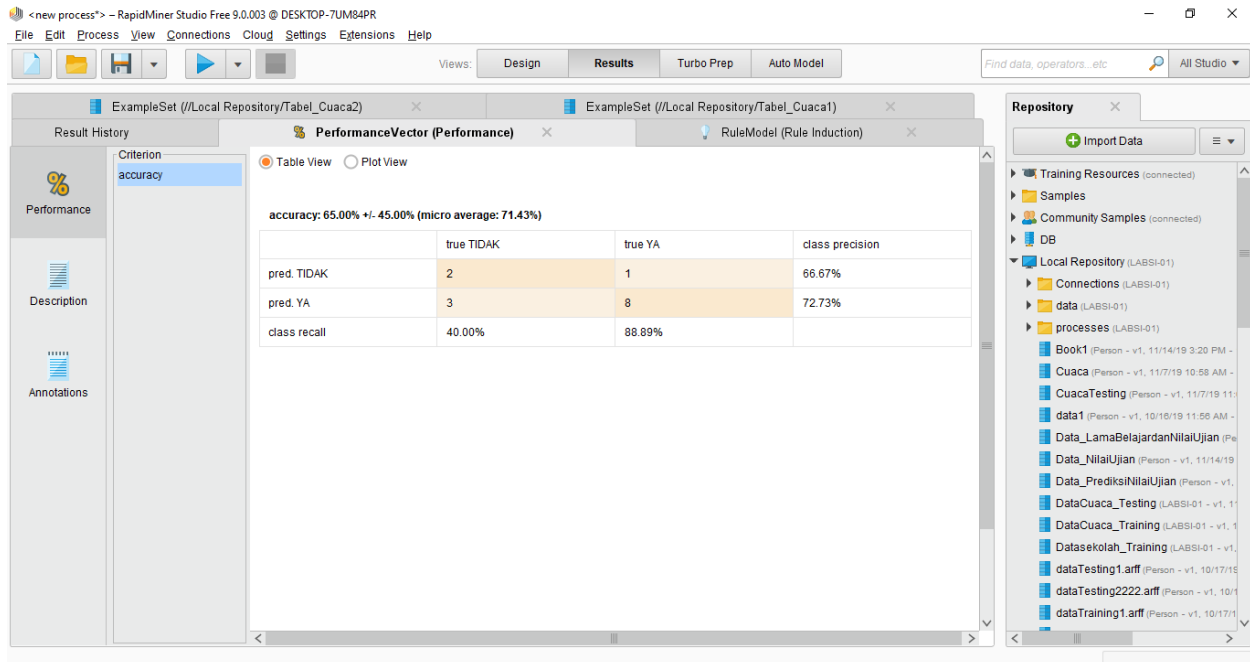
**RuleModel**

Description

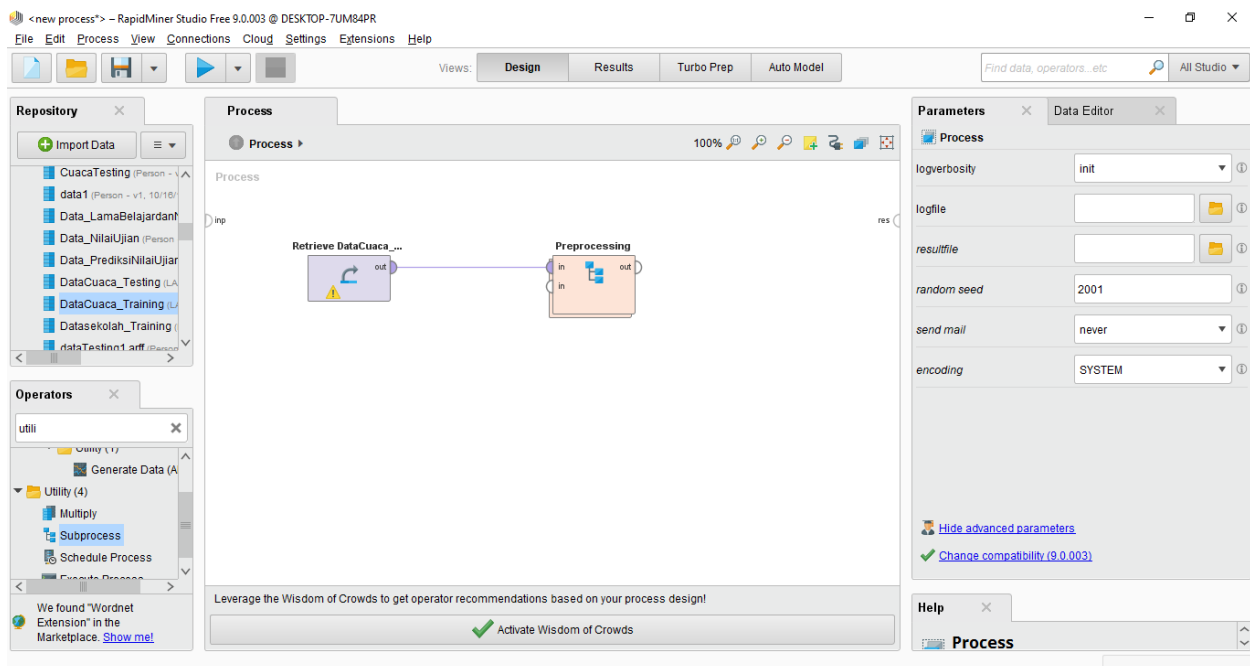
```
if Kelembaban_udara ≤ 82.500 then YA (1 / 6)
if Cuaca = Cerah then TIDAK (3 / 0)
if Cuaca = Mendung then YA (0 / 2)
if Suhu ≤ 70.500 then YA (0 / 1)
else TIDAK (0 / 0)
```

Annotations

correct: 12 out of 13 training examples.



## 11.4.2.



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Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

**Repository**

- Import Data
- CuacaTesting (Person - v1, 10/10/19)
- data1 (Person - v1, 10/10/19)
- Data\_LamaBelajardant
- Data\_NilaiUjian (Person)
- Data\_PrediksiNilaiUjian
- DataCuaca\_Testing (LA)
- DataCuaca\_Training (LA)
- Datasekolah\_Training
- dataTestinn1.arff (RapidMiner)

**Operators**

Search for Operators

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

Get more operators from the Marketplace

**Process**

Preprocessing

100%

Discretize

Nominal to Binomial

Parameters

Preprocessing (Subprocess)

No parameters to display.

Help

Subprocess

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

**Repository**

- Import Data
- CuacaTesting (Person - v1, 10/10/19)
- data1 (Person - v1, 10/10/19)
- Data\_LamaBelajardant
- Data\_NilaiUjian (Person)
- Data\_PrediksiNilaiUjian
- DataCuaca\_Testing (LA)
- DataCuaca\_Training (LA)
- Datasekolah\_Training
- dataTestinn1.arff (RapidMiner)

**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

100%

Retrieve DataCuaca\_Testing

Preprocessing

FP-Growth

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

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, 11/6/19 1:33 PM)
- modul11.1 (LABSI-01 - v1, 11/20/19 1:1)
- modul11.2 (LABSI-01 - v1, 11/20/19 1:2)
- perch33n11 (Person - v1, 11/20/19 1:1)

Operators

Search for Operators

- Predictive (61)
- Segmentation (14)
- Associations (6)
- FP-Growth
- Create Association Rules
- Apply Association Rules
- Generalized Sequential Pattern Mining

Get more operators from the Marketplace

Process

Process

100%

Retrieve DataCuaca\_Testing (Person - v1, 10/16/19) → Preprocessing (Person - v1, 10/16/19) → FP-Growth (LABSI-01 - v1, 11/20/19) → Create Association Rules (LABSI-01 - v1, 11/20/19)

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

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 Binominal)

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 11:58 AM - 10 KB)
- 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)
- dataTesting2222.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)
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- 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, 11/6/19 1:33 PM)
- modul11.1 (LABSI-01 - v1, 11/20/19 1:1)
- modul11.2 (LABSI-01 - v1, 11/20/19 1:2)
- perch33n11 (Person - v1, 11/20/19 1:1)

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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

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

Min. Criterion: confidence  
 Min. Criterion Value:

Repository

Import Data

- CuacaTesting (Person - v1, 11/7/19 11:11)
- data1 (Person - v1, 10/16/19 11:56 AM)
- Data\_LamaBelajardanNilaiUjian (Person - v1, 11/14/19 11:14)
- Data\_NilaiUjian (Person - v1, 11/14/19 11:14)
- Data\_PrediksiNilaiUjian (Person - v1, 11/14/19 11:14)
- DataCuaca\_Testing (LABSI-01 - v1, 11/14/19 11:14)
- DataCuaca\_Training (LABSI-01 - v1, 11/14/19 11:14)
- Datasekolah\_Training (LABSI-01 - v1, 11/14/19 11:14)
- dataTesting1.arff (Person - v1, 10/17/19 10:17)
- dataTesting2222.arff (Person - v1, 10/17/19 10:17)
- dataTraining1.arff (Person - v1, 10/17/19 10:17)
- dataTraining2222.arff (Person - v1, 10/17/19 10:17)
- hasil\_cuaca (Person - v1, 11/7/19 3:13)
- Lokasi\_Testing (Person - v1, 10/16/19 11:56 AM)
- Lokasi\_Training (Person - v1, 10/16/19 11:56 AM)
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- modul11.1 (LABSI-01 - v1, 11/20/19 1:16 PM)
- modul11.2 (LABSI-01 - v1, 11/20/19 1:16 PM)
- pernyataan11 (Person - v1, 11/20/19 1:16 PM)

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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:

Repository

Import Data

- CuacaTesting (Person - v1, 11/7/19 11:11)
- data1 (Person - v1, 10/16/19 11:56 AM)
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- modul11.2 (LABSI-01 - v1, 11/20/19 1:16 PM)
- pernyataan11 (Person - v1, 11/20/19 1:16 PM)

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





Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

