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Aturan Asosiasi

❖ Langkah-langkah Praktikum

1. Aturan Asosiasi dengan Menggunakan DataCuaca_Traning

– RapidMiner Studio Free 9.0.003 @ DESKTOP-7UM84PR

File View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Process

Process: Cross Validation

100%

Training

tra → Rule Induction (mod, tra, exa) → mod, thr

Testing

mod, thr → Apply Model (mod, lab, unl, mod) → lab, per → Performance (lab, per, % per, exa) → tes, per

Parameters

Cross Val

☐ leave one

number of fold:

sampling type

Show adv

Change c

Help

Cros

Concur

Test Cross V

2. Hasil PerformanceVector (Performance)

ew process"> - RapidMiner Studio Free 9.0.003 @ DESKTOP-7UM84PR

Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Find data, c

RuleModel (Rule Induction) ExampleSet (/Local Repository/CuacaTraining)

Result History Criterion accuracy

Table View Plot View

accuracy: 65.00% +/- 45.00% (micro average: 71.43%)

	true Tidak	true Ya	class precision
pred. Tidak	2	1	66.67%
pred. Ya	3	8	72.73%
class recall	40.00%	88.89%	

formance

Description

Annotations

Repository

3. Rule Model kondisi pad kondisi yang ada

<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 S

Result History PerformanceVector (Performance) ExampleSet (/Local Repository/CuacaTraining)

RuleModel (Rule Induction)

RuleModel

Description

```
if Kelembaban_Udara ≤ 92.500 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

- Cuaca333 (Person - v1, 11/21/19 4
- Cuaca_TESTING (Person - v1, 11
- Cuaca_TRAINING (Person - v1, 1
- Cuaca_TRAINING222 (Person - v
- Cuaca_TRAINING_BARU (Perso
- Cuaca_TRAINING_BARUU (Per
- CuacaTraining (Person - v1, 11/2
- data_jamabelajar (Person - v1, 1
- Data_NilaiUjian (Person - v1, 11/
- Data_NilaiUjian2 (Person - v1, 11
- data_prediksi (Person - v1, 11/13/
- data_tugas (Person - v1, 11/13/19
- DATA_tugasnilaiujian (Person - v
- data_tugasprediksi (Person - v1,
- DataCuaca_Training (Person - v1,
- L200170107_baru (Person - v1, 1
- MahasiswaTraining (Person - v1,
- Tabel_Cuaca_Testing (Person -
- Tabel_NilaiUjian (Person - v1, 11
- Tugas (Person - v1, 11/21/19 4:39
- Tugas_NilaiUjian (Person - v1, 1

4. proses Preprocessing yang terjadi

Local Repository/HasilRuleInduction* - 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
- Cuaca_TRAINING_BARU (Person - v1, 11/2/19)
- Cuaca_TRAINING_BARUU (Person - v1, 11/2/19)
- CuacaTraining (Person - v1, 11/2/19)
- data_jamabelajar (Person - v1, 11/13/19)
- Data_NilaiUjian (Person - v1, 11/13/19)
- Data_NilaiUjian2 (Person - v1, 11/13/19)
- data_prediksi (Person - v1, 11/13/19)
- data_tugas (Person - v1, 11/13/19)
- DATA_tuasnilaialuiian (Person - v1, 11/13/19)

Operators

Association

- Modeling (7)
 - Associations (6)
 - FP-Growth
 - Create Association Rules
 - Apply Association Rules
 - Generalized Sequential Pattern Mining
 - Item Sets to Data

No results were found.

Process

Process > Preprocessing 100%

Preprocessing

in → Discretize → Nominal to Binominal → FP-Growth → out

Parameters

Preprocessing (Subprocess)

No parameters to display.

Help

Subprocess

RapidMiner Studio Core

Tags: Group, Sub-process, Routine, Function, Building, Block, Process, Utility

Synopsis

This operator introduces a process within a process. Whenever a Subprocess operator is reached during a process execution, first the entire subprocess is executed. Once the subprocess execution is completed, the process continues with the next operator.

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

Activate Wisdom of Crowds

Find data, operators...etc

All Studio

Parameters

FP-Growth

input format

items in dummy coded colu...

min requirement

support

min support

0.1

min items per itemset

1

max items per itemset

0

max number of itemsets

1000000

Show advanced parameters

Help

FP-Growth

Concurrency

Tags: [Associations](#), [Market](#), [Basket](#), [Upselling](#), [Up-selling](#), [Crossselling](#), [Cross-selling](#), [Itemset](#), [Item-set](#), [Item set](#), [Mining](#), [Frequent](#), [Patterns](#)

Synopsis

This Operator efficiently calculates all frequently-occurring itemsets in an ExampleSet, using the FP-tree data structure.

5. Procces Association Rules dengan min support = 0.1

The screenshot displays the RapidMiner Studio interface. The main workspace shows a process flow: Retrieve CuacaTrain... → Preprocessing → FP-Growth → Create Association... The FP-Growth operator is selected, and its parameters are visible on the right:

- Input format: Items in dummy coded colu...
- min requirement: support
- min support: 0.1
- min items per itemset: 1
- max items per itemset: 0
- max number of itemsets: 1000000

The bottom right panel shows the help for the FP-Growth operator, including tags and a synopsis.

6. FrequentItemSet

ExampleSet (Nominal to Binominal) | ExampleSet (/Local Repository/CuacaTraining)

Result History | **FrequentItemSets (FP-Growth)** | AssociationRules (Create Association Rules)

No. of Sets: 25
Total Max. Size: 4
Min. Size: 1
Max. Size: 4
Contains Item:
Update View

Size	Support	Item 1	Item 2	Item 3	Item 4
2	0.214	Kelembaban_Udara	Cuaca = Cerah		
2	0.143	Kelembaban_Udara	Cuaca = Hujan		
2	0.143	Kelembaban_Udara	Cuaca = Mendung		
2	0.143	Suhu	Berangin		
2	0.214	Suhu	Cuaca = Cerah		
2	0.071	Suhu	Cuaca = Hujan		
2	0.143	Suhu	Cuaca = Mendung		
2	0.143	Berangin	Cuaca = Cerah		
2	0.071	Berangin	Cuaca = Hujan		
2	0.143	Berangin	Cuaca = Mendung		
3	0.071	Kelembaban_Udara	Suhu	Berangin	
3	0.143	Kelembaban_Udara	Suhu	Cuaca = Cerah	
3	0.071	Kelembaban_Udara	Suhu	Cuaca = Mendung	
3	0.071	Kelembaban_Udara	Berangin	Cuaca = Cerah	
3	0.071	Kelembaban_Udara	Berangin	Cuaca = Mendung	

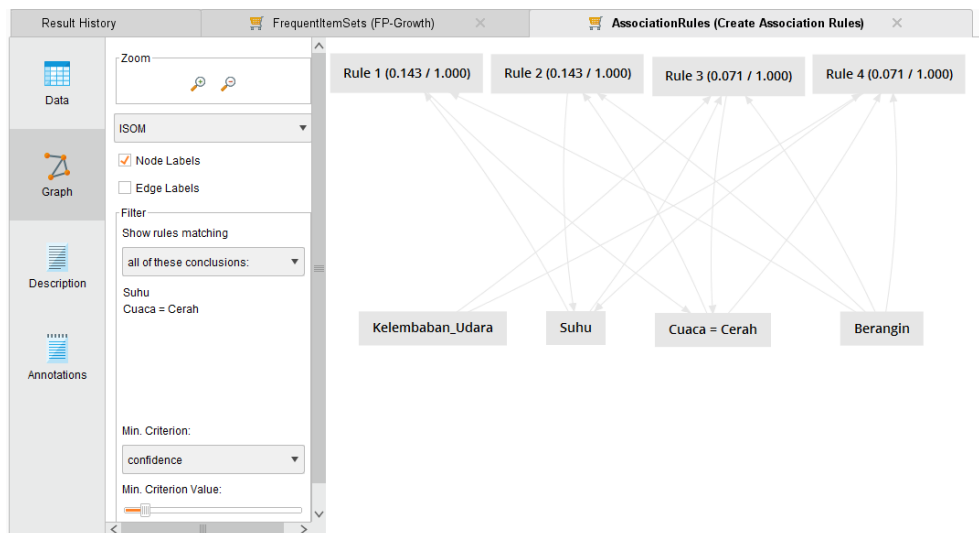
Min Size = 1

Max Size = 4

7. Creat Association Rules

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

Penyebaran Data



Support Confidence LaPlace Gain p-s Lift Convictive\

Berdasarkan Nilai dari penyebaran data saat di proses dengan gain information

	Support	Confidence	LaPlace	Gain	p-s	Lift	Convicti...
	0.143	1	1	-0.143	0.092	2.800	∞
	0.143	1	1	-0.143	0.082	2.333	∞
	0.071	1	1	-0.071	0.046	2.800	∞
	0.071	1	1	-0.071	0.041	2.333	∞

Chart Style Exemple set Nominal to Binominal dengan:"

x-Axis adalah: Cuaca = Hujan

y-Axis adalah : Kelembaban_Udara

Column Index Bermain_Tenis

