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## Neural Net

<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**

- modul 13 keg 1 (Person - v1, 11/1/19)
- modul 13 keg 2 (Person - v1, 11/1/19)
- quiz2 (Person - v1, 12/5/19 4:49 AM)
- quiz (Person - v1, 12/18/19 4:10 AM)
- SMA\_Testing (Person - v1, 11/27/19)
- SMA\_Training (Person - v1, 11/27/19)
- SMA\_Testing (Person - v1, 11/27/19)
- tabel\_hasilsurvei1 (Person - v1, 11/27/19)

**Operators**

nominal

- Numerical to Polynominal
- Nominal to Binominal
- Nominal to Text
- Nominal to Numerical
- Nominal to Date
- Text to Nominal

We found "Edda - Extensions for Binominal..." in the Marketplace. [Show me!](#)

**Process**

Process

100%

Retrieve quiz

Cross Validation

exa mod  
exa tes  
per per

**Parameters**

Process

logverbosity init

logfile

[Show advanced parameters](#)

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

**Help**

Process

RapidMiner Studio Core

**Synopsis**

The root operator which is the outer most operator of

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

Activate Wisdom of Crowds

Windows taskbar: 4:20 18/12/2019

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Find data, operators, etc. All Studio

**Repository**

- modul 13 keg 1 (Person - v1, 11/1/2019 4:49 A)
- modul 13 keg 2 (Person - v1, 11/1/2019 4:49 A)
- quiz2 (Person - v1, 12/5/19 4:49 A)
- SMA\_Testing (Person - v1, 11/27/2019 4:49 A)
- SMA\_Training (Person - v1, 11/27/2019 4:49 A)
- SMA\_Testing (Person - v1, 11/27/2019 4:49 A)
- tabel\_hasilsurvey1 (Person - v1, 11/27/2019 4:49 A)

**Operators**

nominal

- Nominal to Polynominal
- Nominal to Binominal
- Nominal to Text
- Nominal to Numerical
- Nominal to Date
- Text to Nominal

We found "Edda - Extensions for Binominal..." in the Marketplace. [Show me!](#)

**Process**

Process > Cross Validation

100%

Training: Nominal to Numerical, Neural Net

Testing: Apply Model, Performance

**Parameters**

**Cross Validation**

- ☐ leave one out
- number of folds: 10
- sampling type: automatic

[Show advanced parameters](#)

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

**Help**

**Cross Validation**

Concurrency

Tags: Cross-Validations, Cross-validations, Folds, K-Folds, K-folds, Validations, Estimations, Evaluations, Performances, Splitting, X-Validation, X-Prediction, Validation

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

☒ Activate Wisdom of Crowds

Double-click to enter subprocess, drag to move.

Hasilnya :

<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

**Result History**

PerformanceVector (Performance) ImprovedNeuralNet (Neural Net) ExampleSet (//Local Repository/quiz)

Criterion: accuracy

Table View Plot View

accuracy: 64.00% +/- 8.00% (micro average: 64.00%)

	true YA	true TIDAK	class precision
pred. YA	39	24	61.90%
pred. TIDAK	12	25	67.57%
class recall	76.47%	51.02%	

**Repository**

- modul 13 keg 1 (Person - v1, 11/1/2019 4:49 A)
- modul 13 keg 2 (Person - v1, 11/1/2019 4:49 A)
- quiz2 (Person - v1, 12/5/19 4:49 A)
- SMA\_Testing (Person - v1, 11/27/2019 4:49 A)
- SMA\_Training (Person - v1, 11/27/2019 4:49 A)
- SMA\_Testing (Person - v1, 11/27/2019 4:49 A)
- tabel\_hasilsurvey1 (Person - v1, 11/27/2019 4:49 A)

# Naive Bayes

<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

- modul 13 keg 1 (Person - v1, 11/27/19 6:01 AM - 5 MB)
- modul 13 keg 2 (Person - v1, 11/27/19 6:11 AM - 8 MB)
- NAIVE BEYES (Person - v1, 12/18/19 4:24 AM - 1 KB)
- NEURAL NET (Person - v1, 12/18/19 4:22 AM - 8 KB)
- quis2 (Person - v1, 12/5/19 4:49 AM - 1 KB)
- quiz (Person - v1, 12/18/19 4:10 AM - 3 KB)
- SMA\_Testing (Person - v1, 11/27/19 6:18 AM - 492 byte)
- SMA\_Training (Person - v1, 11/27/19 6:19 AM - 679 byte)

**Operators**

naive beye

- Modeling (2)
  - Predictive (2)
    - Bayesian (2)
      - Naive Bayes
      - Naive Bayes (Kernel)

No results were found.

**Process**

Process > Cross Validation

100%

Training

Testing

Naive Bayes

Apply Model

Performance

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

Activate Wisdom of Crowds

## Hasilnya :

<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

**Result History**

PerformanceVector (Performance)

SimpleDistribution (Naive Bayes)

ExampleSet (/Local Repository/quiz)

Table View Plot View

Criterion: accuracy

Performance

Description

Annotations

accuracy: 65.00% +/- 14.32% (micro average: 65.00%)

	true YA	true TIDAK	class precision
pred. YA	41	25	62.12%
pred. TIDAK	10	24	70.59%
class recall	80.39%	48.98%	

# Decision Tree

<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
- modul 13 keg 1 (Person - v1, 11/1/19)
- modul 13 keg 2 (Person - v1, 11/1/19)
- NAIVE BEYES (Person - v1, 12/16/19)
- NEURAL NET (Person - v1, 12/16/19)
- quiz2 (Person - v1, 12/15/19 4:49 AM)
- quiz (Person - v1, 12/18/19 4:10 AM)
- SMA\_Testing (Person - v1, 11/27/19)
- SMA\_Training (Person - v1, 11/27/19)

**Operators**

performance

- Predictive (7)
- Performance (Classification)
- Performance (Binomial)
- Performance (Regression)
- Performance (Costs)
- Performance (Ranking)
- Performance (Support Vector)

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

**Process**

Process > Cross Validation

100%

Training: Decision Tree

Testing: Apply Model, Performance

**Parameters**

Cross Validation

- leave one out
- number of folds: 10
- sampling type: automatic

[Show advanced parameters](#)

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

**Help**

Cross Validation

Concurrency

Tags: Cross-Validations, Cross-validations, Folds, K-Folds, K-folds, Validations, Estimations, Evaluations, Performances, Splitting, X-Validation, X-Prediction, Validation

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

Activate Wisdom of Crowds

## Hasilnya :

<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

**Result History**

PerformanceVector (Performance)

Tree (Decision Tree)

ExampleSet (/Local Repository/quiz)

Criterion: accuracy

Table View Plot View

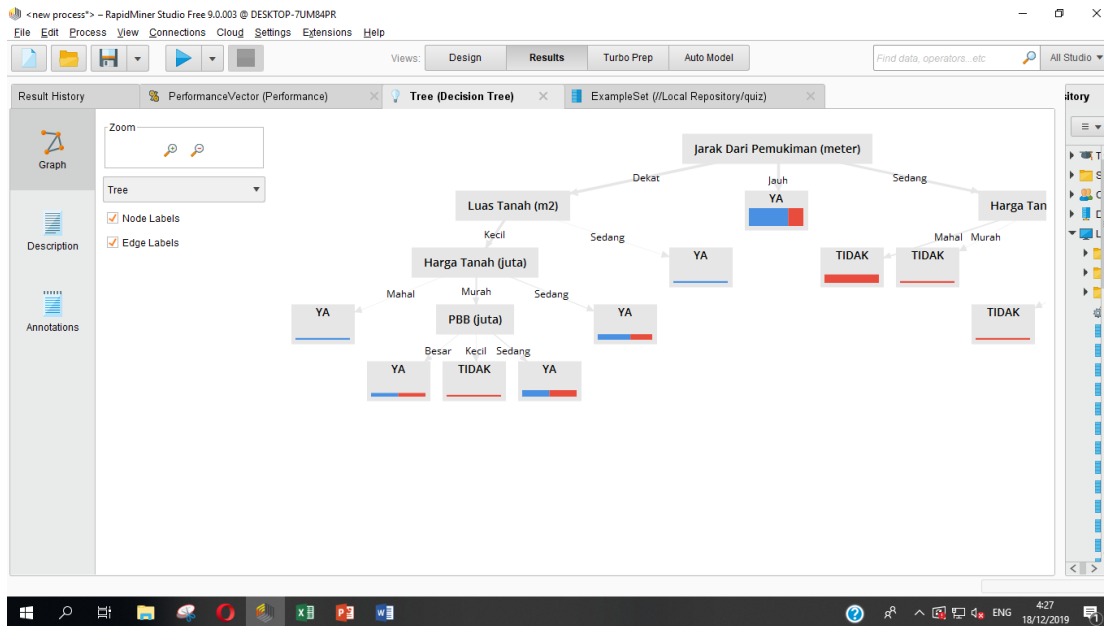
accuracy: 64.00% +/- 13.56% (micro average: 64.00%)

	true YA	true TIDAK	class precision
pred. YA	40	25	61.54%
pred. TIDAK	11	24	68.57%
class recall	78.43%	48.98%	

**Performance**

Description

Annotations



Paling Tinggi Naïve Bayes dengan 65%

2.

## Clustering K-Means

The screenshot displays the Orange3 data mining software interface. The main workspace shows a workflow with three operators: 'Retrieve quizcluster', 'Clustering', and 'SVD'. The 'Clustering' operator is highlighted with an orange border. The 'Parameters' panel on the right shows the settings for the 'Clustering (K-Means)' operator, including 'add cluster attribute' (checked), 'add as label' (unchecked), 'remove unlabeled' (unchecked), 'k' (5), 'max runs' (10), 'determine good start values' (checked), 'measure types' (MixedMeasures), 'mixed measure' (MixedEuclideanD...', and 'max optimization steps' (100). The 'Data Editor' panel on the right shows the 'Parameters' for the 'Clustering (K-Means)' operator.

Repository

- Import Data
- quiz clustering (Person - v1, 12/1/19)
- quiz decision (Person - v1, 12/18/19)
- quiz naive (Person - v1, 12/18/19)
- Quiz\_Testing (Person - v1, 12/5/19)
- quizcluster (Person - v1, 12/18/19)
- quizclustering (Person - v1, 12/16/19)
- quizuji (Person - v1, 12/18/19 9:38)
- Tabel Testing (Person - v1, 10/16/19)

Operators

- rule
- Predictive (5)
  - Rules (5)
    - Rule Induction
    - Single Rule Induction
    - Single Rule Induction (S)
    - Subgroup Discovery
    - Tree to Rules

We found "Weka Extension" in the Marketplace. [Show me!](#)

Process

Process

Retrieve quizcluster

Clustering

SVD

Parameters

Clustering (K-Means)

- ☒ add cluster attribute
- ☐ add as label
- ☐ remove unlabeled
- k: 5
- max runs: 10
- ☒ determine good start values
- measure types: MixedMeasures
- mixed measure: MixedEuclideanD...
- max optimization steps: 100
- ☐ use local random seed
- [Hide advanced parameters](#)
- [Change compatibility \(9.0.003\)](#)

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

☒ Activate Wisdom of Crowds

## Hasilnya

The screenshot displays the Orange3 data mining software interface, showing the results of an SVD analysis. The 'Result History' panel on the left shows the 'SVD (SVD)' operator. The 'SVD (SVD)' operator's output is displayed in a table with the following columns: Component, Singular Value, Proportion of Singular Values, Cumulative Singular Values, and Cumulative Proportion of Singular ...

Component	Singular Value	Proportion of Singular Values	Cumulative Singular Values	Cumulative Proportion of Singular ...
SVD 1	22556872.569	1.000	22556872.569	1.000
SVD 2	279.604	0.000	22557152.173	1.000
SVD 3	46.439	0.000	22557198.612	1.000
SVD 4	5.202	0.000	22557203.814	1.000
SVD 5	2.212	0.000	22557206.026	1.000
SVD 6	0.954	0.000	22557206.979	1.000

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

ExampleSet (/Local Repository/quizuji) ExampleSet (/Local Repository/DataQuizTanah)

Cluster Model (Clustering) ExampleSet (/Local Repository/quizcluster) ExampleSet (/Local Repository/quizclustering)

Result History SVD (SVD) ExampleSet (Clustering) ExampleSet (SVD)

ExampleSet (30 examples, 3 special attributes, 6 regular attributes) Filter (30 / 30 examples): all

Row No.	Id	Nama	cluster ↑	No	Pendapatan ...	Jumlah Tan...	Pekerjaan O...	IPK	Nilai Wawan...
1	1	Rino	cluster_0	1	5000000	2	2	3.160	65
5	5	Romi	cluster_0	5	4500000	3	2	3.450	70
9	9	Andre	cluster_0	9	5000000	2	2	3.400	72
16	16	Sifa	cluster_0	16	5000000	2	2	3.350	62
24	24	Nuca	cluster_0	24	4000000	3	2	3.460	68
29	29	Dika	cluster_0	29	5000000	3	2	3.400	72
6	6	Ririn	cluster_1	6	1500000	4	1	3.850	88
7	7	Rahma	cluster_1	7	2000000	3	2	3.700	84
11	11	Ayuk	cluster_1	11	1000000	3	1	3.800	86
12	12	Wanti	cluster_1	12	1500000	4	2	3.600	83
14	14	Farah	cluster_1	14	1000000	3	1	3.900	86
15	15	Maryana	cluster_1	15	750000	4	1	3.750	90
18	18	Ulfa	cluster_1	18	2000000	3	1	3.720	86
20	20	Awan	cluster_1	20	1000000	2	1	3.740	85
21	21	Rafi	cluster_1	21	500000	3	1	3.730	84

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

ExampleSet (/Local Repository/quizuji) ExampleSet (/Local Repository/DataQuizTanah)

Cluster Model (Clustering) ExampleSet (/Local Repository/quizcluster) ExampleSet (/Local Repository/quizclustering)

Result History SVD (SVD) ExampleSet (Clustering) ExampleSet (SVD)

ExampleSet (30 examples, 3 special attributes, 6 regular attributes) Filter (30 / 30 examples): all

Row No.	Id	Nama	cluster ↑	No	Pendapatan ...	Jumlah Tan...	Pekerjaan O...	IPK	Nilai Wawan...
22	22	Edgar	cluster_1	22	1500000	2	1	3.860	90
27	27	Ghina	cluster_1	27	2000000	3	2	3.350	87
28	28	Alfan	cluster_1	28	1000000	2	1	3.640	78
25	25	Tere	cluster_2	25	10000000	2	2	3.250	70
2	2	Abdul	cluster_3	2	3500000	2	2	3.350	75
3	3	Viant	cluster_3	3	3000000	4	2	3.650	85
8	8	Okta	cluster_3	8	3000000	5	1	3.500	78
10	10	Niko	cluster_3	10	3000000	2	2	3.450	74
17	17	Wulan	cluster_3	17	2500000	3	2	3.680	79
19	19	Syahdan	cluster_3	19	3000000	2	2	3.580	73
23	23	Ira	cluster_3	23	3000000	6	2	3.650	75
30	30	Aya	cluster_3	30	3000000	2	2	3.630	77
4	4	Aan	cluster_4	4	7500000	1	2	3	60
13	13	Mey	cluster_4	13	8000000	2	2	3.300	68
26	26	Ehsan	cluster_4	26	7500000	3	2	3.150	67





# Fuzzy C-Means

The screenshot displays the Orange3 software interface in the 'Design' view. The central 'Process' canvas shows a workflow: 'Retrieve quizcluster' (input) connects to 'Fuzzy C-Means' (output), which then connects to 'SVD' (output). The 'Fuzzy C-Means' operator is highlighted with an orange box. The 'Data Editor' panel on the right shows the parameters for the 'Fuzzy C-Means' operator:

- Parameters:**
  - ☒ add cluster attribute
  - ☐ add as label
  - ☐ Add partition matrix
  - Clusters: 5
  - Iterations: 50
  - Fuzzyness: 2.0
  - MinGain: 1.0E-4
  - measure types: MixedMeasures
  - mixed measure: MixedEuclideanD...
  - ☐ use local random seed

The 'Operators' panel on the left shows the 'Fuzzy C-Means' operator selected under 'Extensions (2) > Information Selection (2) > Clustering (2)'. A message at the bottom of the process canvas reads: 'Leverage the Wisdom of Crowds to get operator recommendations based on your process design! Activate Wisdom of Crowds'.

The screenshot displays the Orange3 software interface in the 'Results' view. The 'Result History' panel shows the 'ExampleSet (Fuzzy C-Means)' operator selected. The 'Data' panel on the left shows the 'Data' tab selected. The 'Data Editor' panel on the right shows the 'ExampleSet (Fuzzy C-Means)' operator selected. The 'Data Editor' panel shows the results of the 'Fuzzy C-Means' process, displaying a table with 5 rows and 8 columns. The table is filtered to show 5/5 examples.

Row No.	cluster	No	Pendapatan ...	Jumlah Tan...	Pekerjaan O...	IPK	Nilai Wawan...
1	cluster_0	15.582	3852579.865	2.680	1.993	3.427	70.731
2	cluster_1	13.054	4969751.957	2.312	2.000	3.338	67.962
3	cluster_2	16.699	1141225.742	2.970	1.140	3.752	85.465
4	cluster_3	16.062	8077893.882	2.000	2.000	3.175	66.009
5	cluster_4	15.690	2875576.523	3.397	1.838	3.587	77.868