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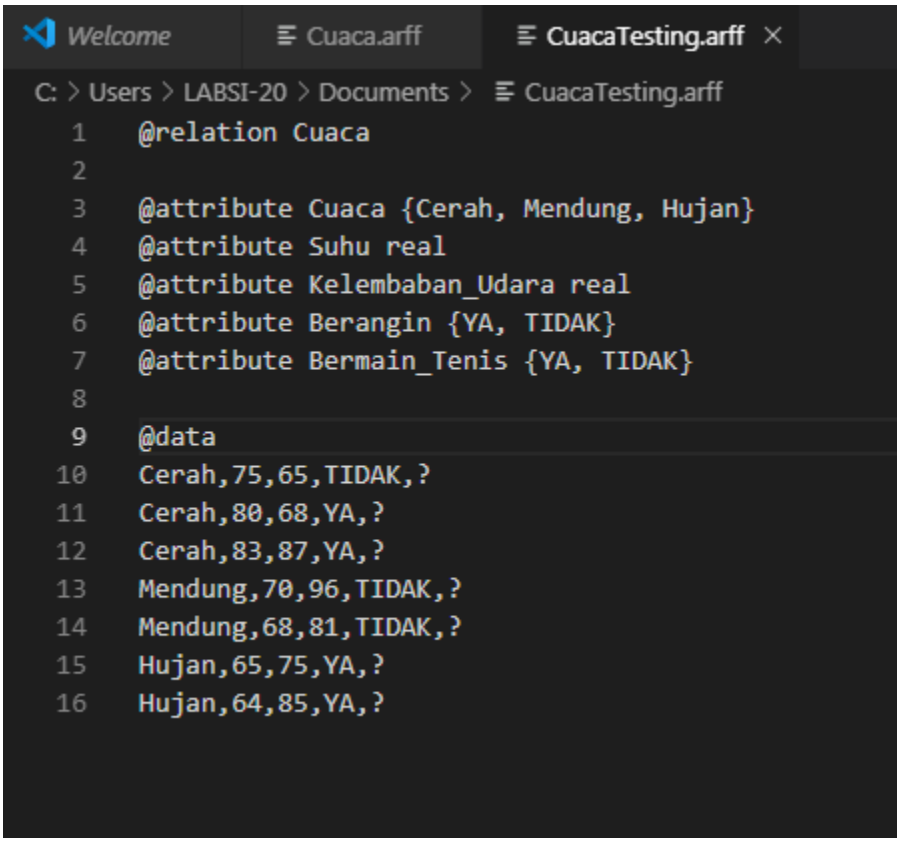
NIM : L200170060
Kleas : C

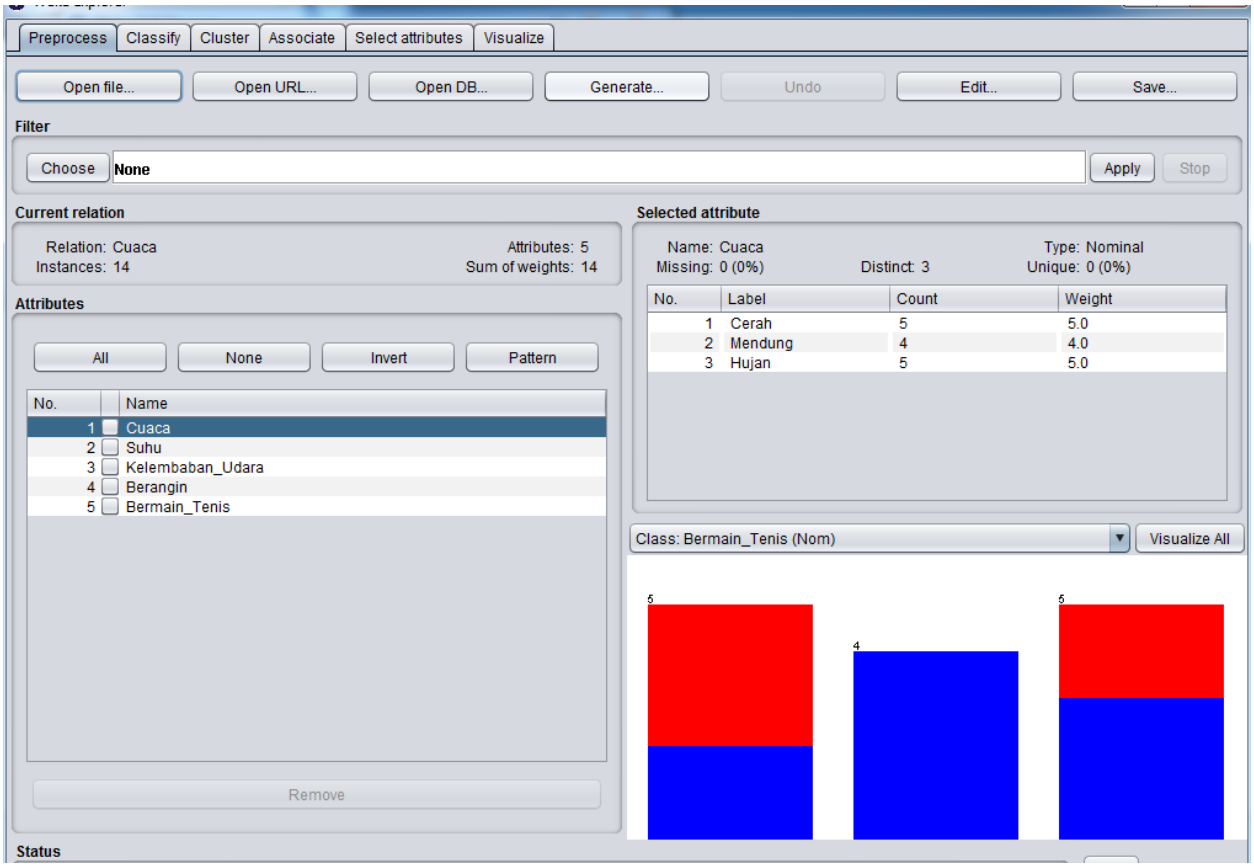
MODUL 8

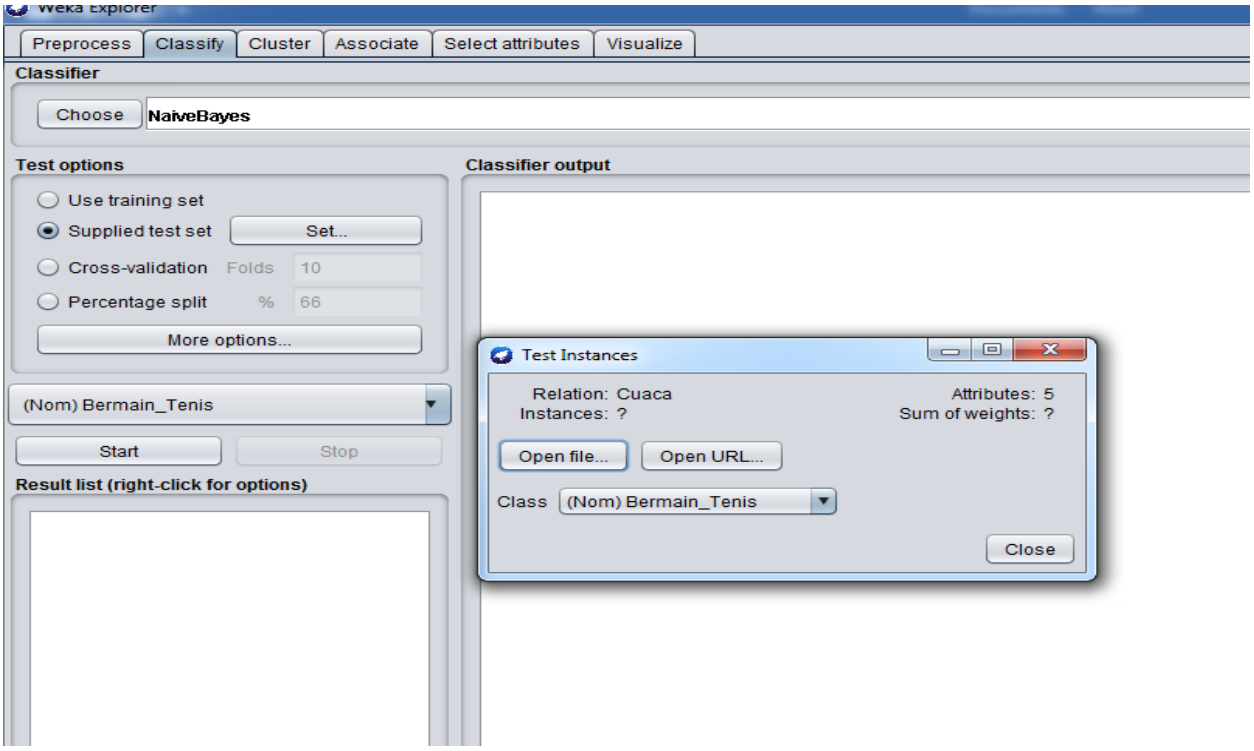
KLASIFIKASI NAÏVE BAYES

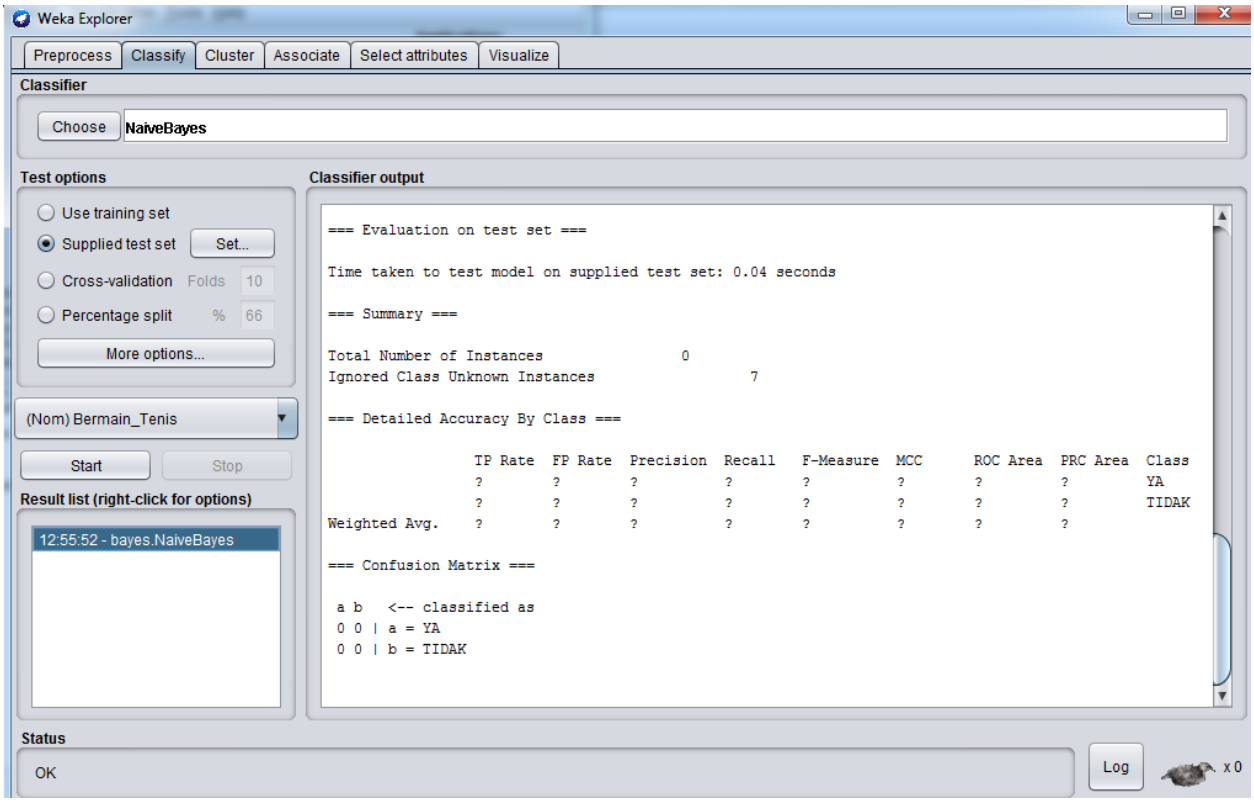
Langkah-langkah Praktikum

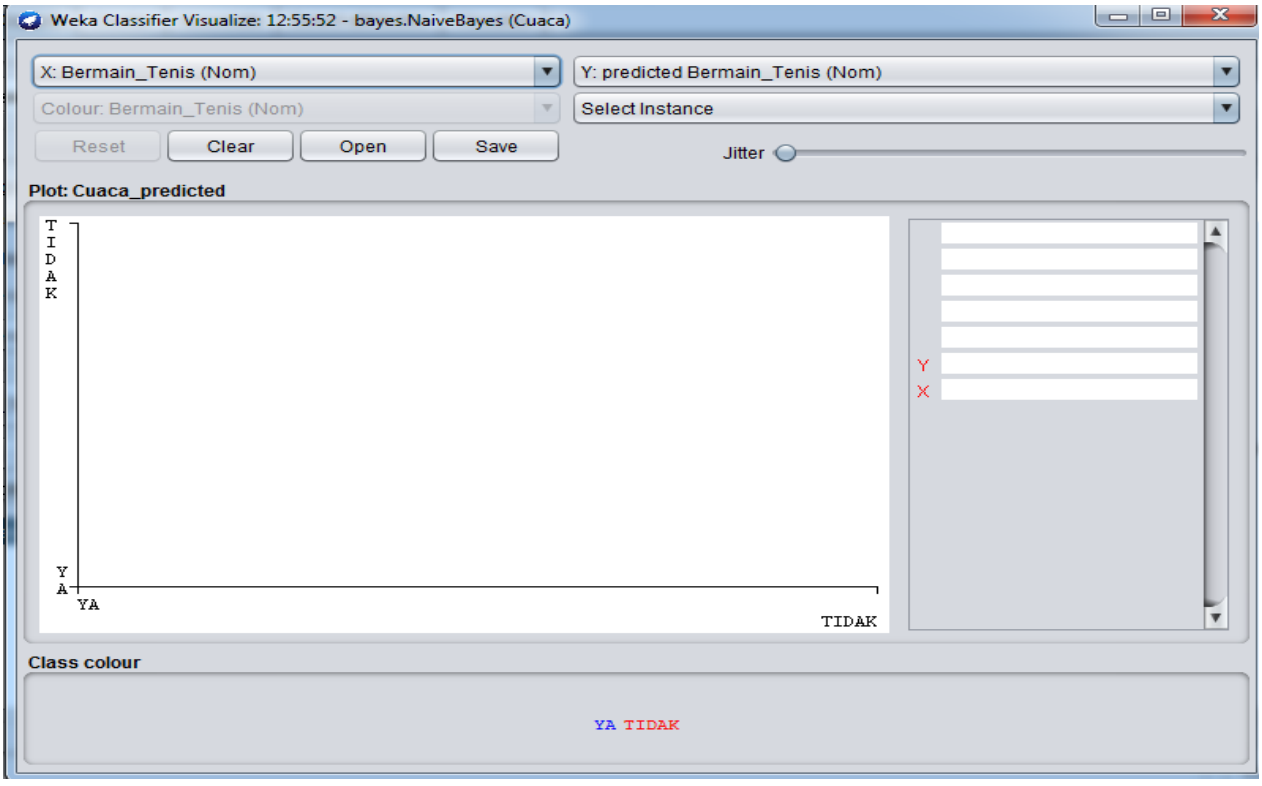
Implementa Naïve Bayes dengan Weka




Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Open file...
Open URL...
Open DB...
Generate...
Undo
Edit...
Save...
Filter
Choose
None
Apply
Stop
Current relation
Relation: Cuaca
Instances: 14
Attributes: 5
Sum of weights: 14
Selected attribute
Name: Cuaca
Missing: 0 (0%)
Distinct: 3
Type: Nominal
Unique: 0 (0%)
Attributes
All
None
Invert
Pattern
No. Name
1 Cuaca
2 Suhu
3 Kelembaban_Udara
4 Berangin
5 Bermain_Tenis
No. Label Count Weight
1 Cerah 5 5.0
2 Mendung 4 4.0
3 Hujan 5 5.0
Class: Bermain_Tenis (Nom)
Visualize All
Remove
Status


Weka Explorer
Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Classifier
Choose
NaiveBayes
Test options
Use training set
Supplied test set
Set...
Cross-validation
Folds
10
Percentage split
%
66
More options...
Classifier output
(Nom) Bermain_Tenis
Start
Stop
Result list (right-click for options)
Test Instances
Relation: Cuaca
Instances: ?
Attributes: 5
Sum of weights: ?
Open file...
Open URL...
Class
(Nom) Bermain_Tenis
Close


Weka Explorer
Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Classifier
Choose
NaiveBayes
Test options
Use training set
Supplied test set
Set...
Cross-validation
Folds
10
Percentage split
%
66
More options...
(Nom) Bermain_Tenis
Start
Stop
Result list (right-click for options)
12:55:52 - bayes.NaiveBayes
Classifier output
=== Evaluation on test set ===
Time taken to test model on supplied test set: 0.04 seconds
=== Summary ===
Total Number of Instances 0
Ignored Class Unknown Instances 7
=== Detailed Accuracy By Class ===
TP Rate FP Rate Precision Recall F-Measure MCC ROC Area PRC Area Class
? ? ? ? ? ? ? ? YA
? ? ? ? ? ? ? ? TIDAK
Weighted Avg. ? ? ? ? ? ? ? ?
=== Confusion Matrix ===
a b <-- classified as
0 0 | a = YA
0 0 | b = TIDAK
Status
OK
Log
x 0


Weka Classifier Visualize: 12:55:52 - bayes.NaiveBayes (Cuaca)
X: Bermain_Tenis (Nom)
Y: predicted Bermain_Tenis (Nom)
Colour: Bermain_Tenis (Nom)
Select Instance
Reset
Clear
Open
Save
Jitter
Plot: Cuaca_predicted
TIDAK
YA
YA
TIDAK
Y
X
Class colour
YA TIDAK

ARFF-Viewer - Z:\HasilPrediksi.arff

File Edit View

HasilPrediksi.arff

Relation: Cuaca_predicted

No.	1: Cuaca	2: Suhu	3: Kelembaban_Udara	4: Berangin	5: prediction margin	6: predicted Bermain_Tenis	7: **Bermain_Tenis**
	Nominal	Numeric	Numeric	Nominal	Numeric	Nominal	Nominal
1	Cerah	75.0	65.0	TIDAK	0.762765	YA	
2	Cerah	80.0	68.0	YA	0.087878	YA	
3	Cerah	83.0	87.0	YA	-0.676866	TIDAK	
4	Mend...	70.0	96.0	TIDAK	0.628523	YA	
5	Mend...	68.0	81.0	TIDAK	0.833996	YA	
6	Hujan	65.0	75.0	YA	0.253733	YA	
7	Hujan	64.0	85.0	YA	-0.160143	TIDAK	

Implementasi Naïve Bayes dengan RapidMiner

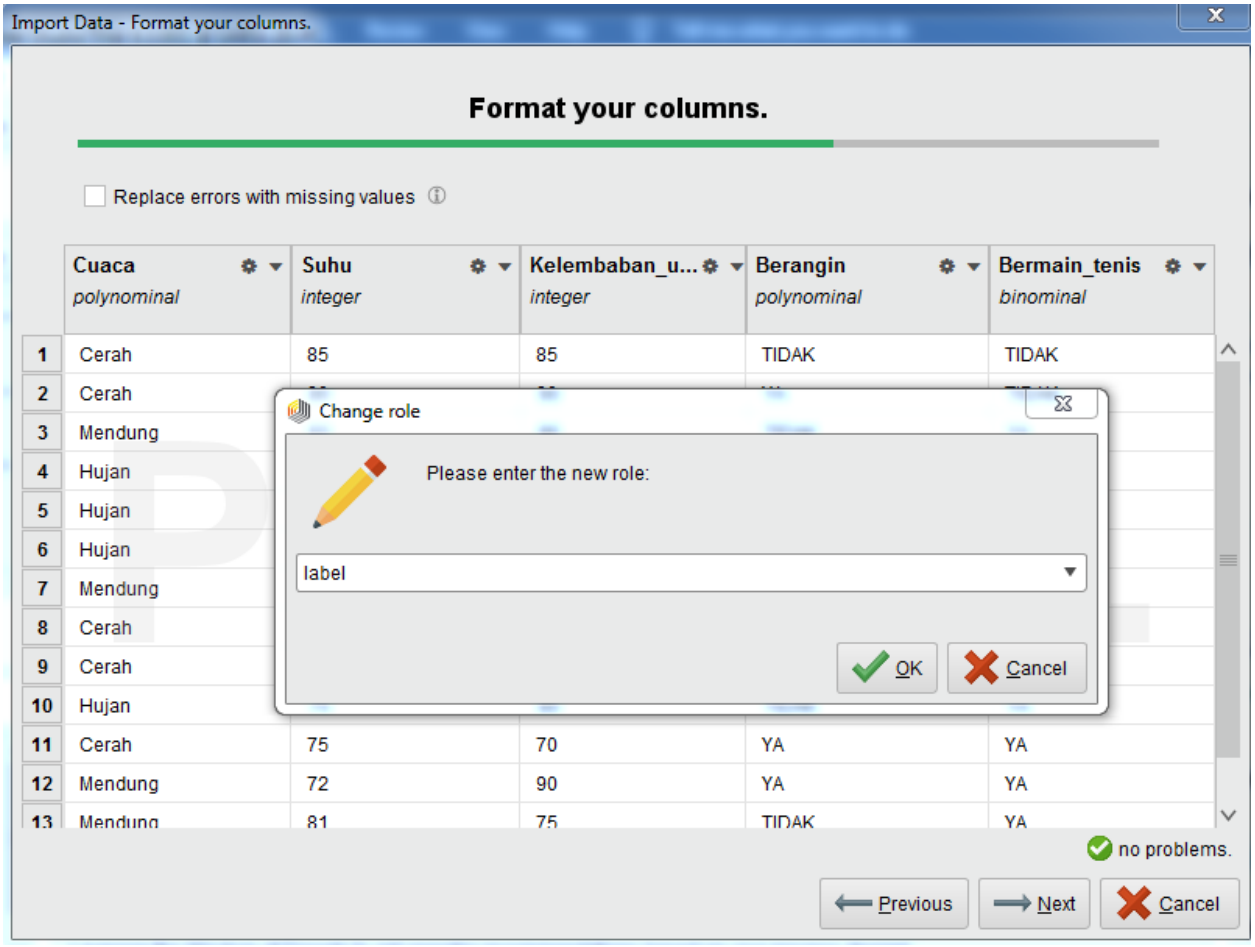
Import Data - Select the cells to import.

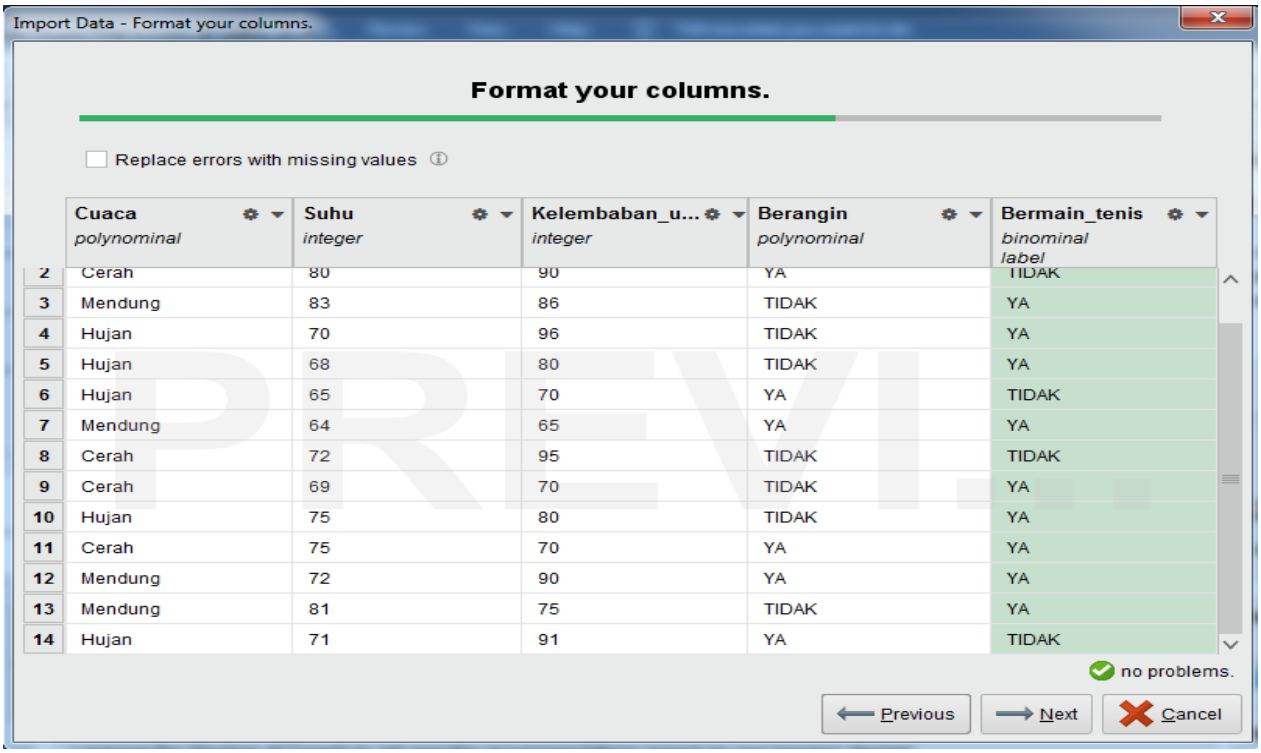
Select the cells to import.

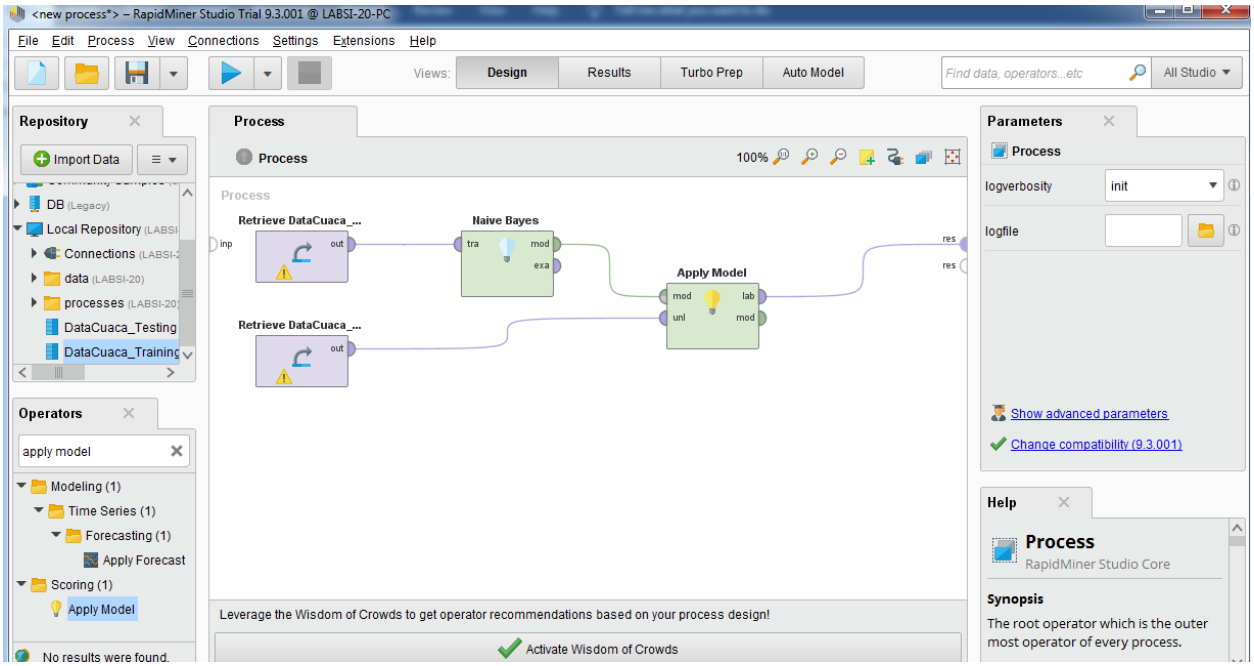
Sheet: Training ▼ Cell range: A:E Select All ☑ Define header row: 1

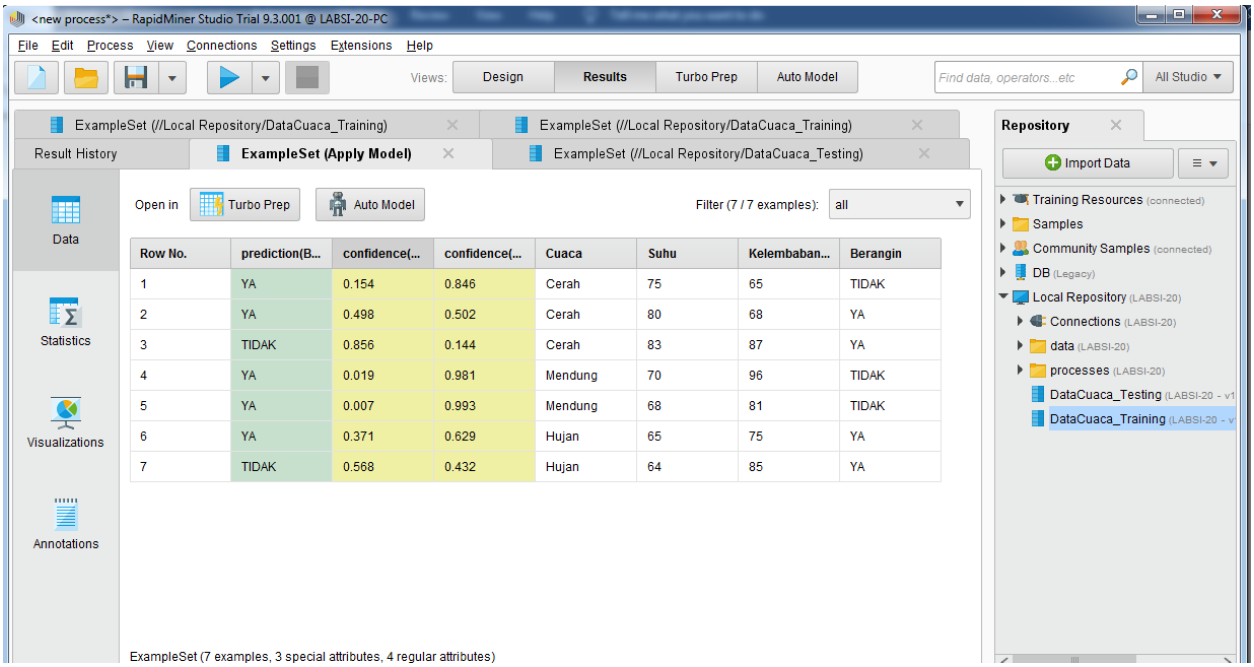
	A	B	C	D	E
1	**Cuaca**	**Suhu**	**Kelembaban_udara**	**Berangin**	**Bermain_tenis**
2	Cerah	85.000	85.000	TIDAK	TIDAK
3	Cerah	80.000	90.000	YA	TIDAK
4	Mendung	83.000	86.000	TIDAK	YA
5	Hujan	70.000	96.000	TIDAK	YA
6	Hujan	68.000	80.000	TIDAK	YA
7	Hujan	65.000	70.000	YA	TIDAK
8	Mendung	64.000	65.000	YA	YA
9	Cerah	72.000	95.000	TIDAK	TIDAK
10	Cerah	69.000	70.000	TIDAK	YA
11	Hujan	75.000	80.000	TIDAK	YA
12	Cerah	75.000	70.000	YA	YA
13	Mendung	72.000	90.000	YA	YA
14	Mendung	81.000	75.000	TIDAK	YA

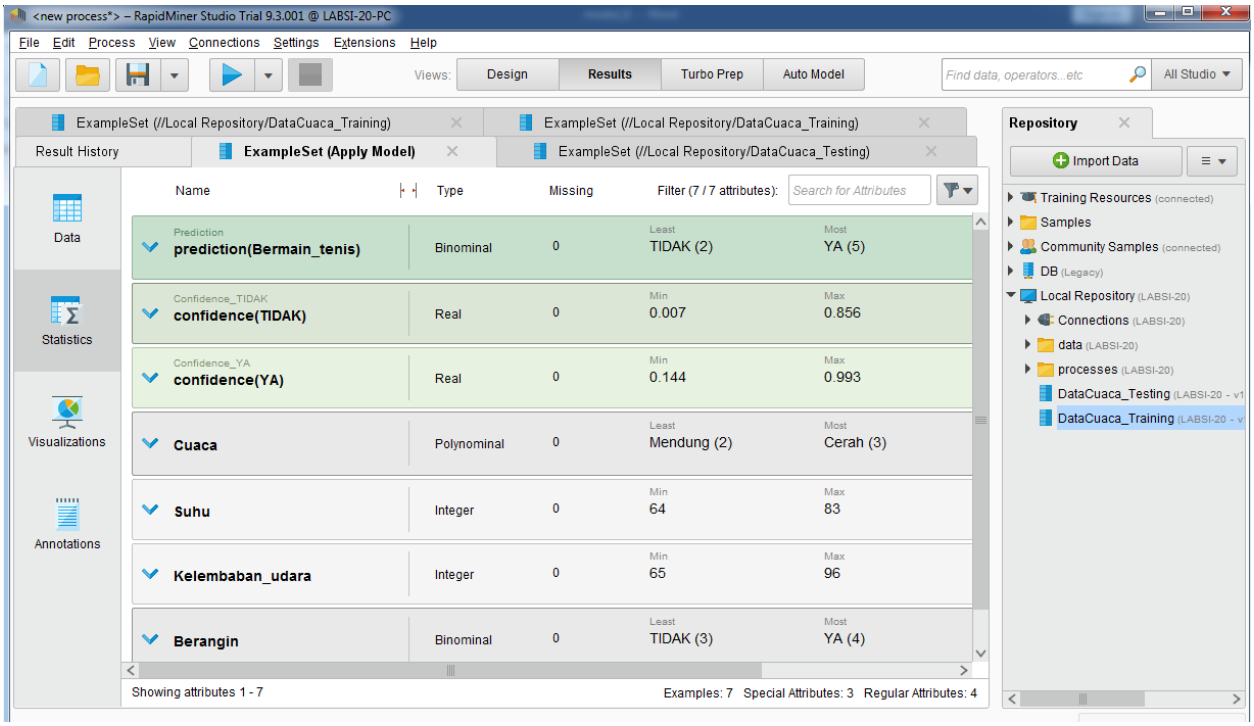
Previous Next Cancel


Import Data - Format your columns.
Format your columns.
Replace errors with missing values
Cuaca polynominal
Suhu integer
Kelembaban_u... integer
Berangin polynominal
Bermain_tenis binominal
1 Cerah 85 85 TIDAK TIDAK
2 Cerah
3 Mendung
4 Hujan
5 Hujan
6 Hujan
7 Mendung
8 Cerah
9 Cerah
10 Hujan
11 Cerah 75 70 YA YA
12 Mendung 72 90 YA YA
13 Mendung 81 75 TIDAK YA
Change role
Please enter the new role:
label
OK
Cancel
no problems.
Previous
Next
Cancel


Import Data - Format your columns.
Format your columns.
Replace errors with missing values
Cuaca polynominal
Suhu integer
Kelembaban_u... integer
Berangin polynominal
Bermain_tenis binominal label
2 Cerah 80 90 YA TIDAK
3 Mendung 83 86 TIDAK YA
4 Hujan 70 96 TIDAK YA
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
14 Hujan 71 91 YA TIDAK
no problems.
Previous
Next
Cancel


<new process*> – RapidMiner Studio Trial 9.3.001 @ LABSI-20-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
DB (Legacy)
Local Repository (LABSI
Connections (LABSI-2
data (LABSI-20)
processes (LABSI-20)
DataCuaca_Testing
DataCuaca_Training
Operators
apply model
Modeling (1)
Time Series (1)
Forecasting (1)
Apply Forecast
Scoring (1)
Apply Model
No results were found.
Process
Process
100%
Retrieve DataCuaca_...
Naive Bayes
Apply Model
Retrieve DataCuaca_...
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Process
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.


<new process*> – RapidMiner Studio Trial 9.3.001 @ LABSI-20-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_Training)
Result History
ExampleSet (Apply Model)
ExampleSet (//Local Repository/DataCuaca_Testing)
Data
Statistics
Visualizations
Annotations
Open in Turbo Prep Auto Model
Filter (7 / 7 examples): all
Row No. | prediction(B... | confidence(... | confidence(... | Cuaca | Suhu | Kelembaban... | Berangin
1 | YA | 0.154 | 0.846 | Cerah | 75 | 65 | TIDAK
2 | YA | 0.498 | 0.502 | Cerah | 80 | 68 | YA
3 | TIDAK | 0.856 | 0.144 | Cerah | 83 | 87 | YA
4 | YA | 0.019 | 0.981 | Mendung | 70 | 96 | TIDAK
5 | YA | 0.007 | 0.993 | Mendung | 68 | 81 | TIDAK
6 | YA | 0.371 | 0.629 | Hujan | 65 | 75 | YA
7 | TIDAK | 0.568 | 0.432 | Hujan | 64 | 85 | YA
ExampleSet (7 examples, 3 special attributes, 4 regular attributes)
Repository
Import Data
Training Resources (connected)
Samples
Community Samples (connected)
DB (Legacy)
Local Repository (LABSI-20)
Connections (LABSI-20)
data (LABSI-20)
processes (LABSI-20)
DataCuaca_Testing (LABSI-20 - v1
DataCuaca_Training (LABSI-20 - v


<new process*> – RapidMiner Studio Trial 9.3.001 @ LABSI-20-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_Training)
Result History
ExampleSet (Apply Model)
ExampleSet (//Local Repository/DataCuaca_Testing)
Data
Statistics
Visualizations
Annotations
Name
Type
Missing
Filter (7 / 7 attributes):
Search for Attributes
Prediction
prediction(Bermain_tenis)
Binominal
0
Least
TIDAK (2)
Most
YA (5)
Confidence_TIDAK
confidence(TIDAK)
Real
0
Min
0.007
Max
0.856
Confidence_YA
confidence(YA)
Real
0
Min
0.144
Max
0.993
Cuaca
Polynominal
0
Least
Mendung (2)
Most
Cerah (3)
Suhu
Integer
0
Min
64
Max
83
Kelembaban_udara
Integer
0
Min
65
Max
96
Berangin
Binominal
0
Least
TIDAK (3)
Most
YA (4)
Showing attributes 1 - 7
Examples: 7 Special Attributes: 3 Regular Attributes: 4
Repository
Import Data
Training Resources (connected)
Samples
Community Samples (connected)
DB (Legacy)
Local Repository (LABSI-20)
Connections (LABSI-20)
data (LABSI-20)
processes (LABSI-20)
DataCuaca_Testing (LABSI-20 - v1
DataCuaca_Training (LABSI-20 - v