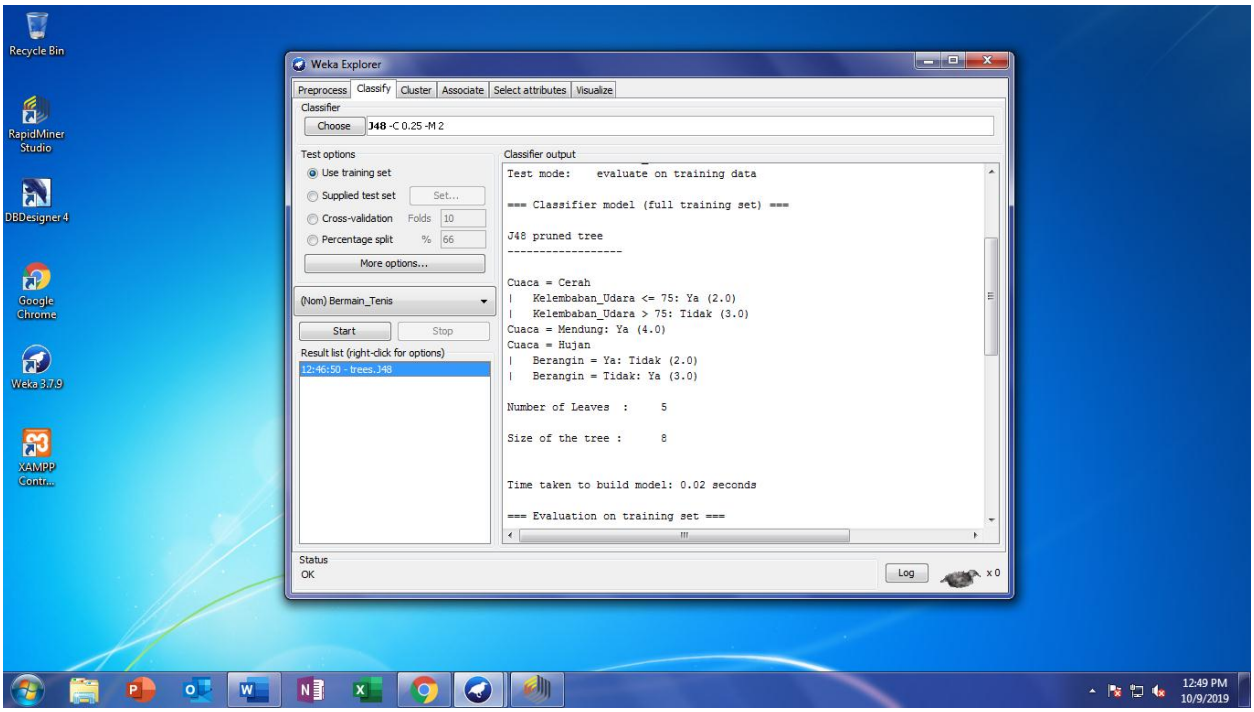
Praktikum Data Warehouse dan Data Mining

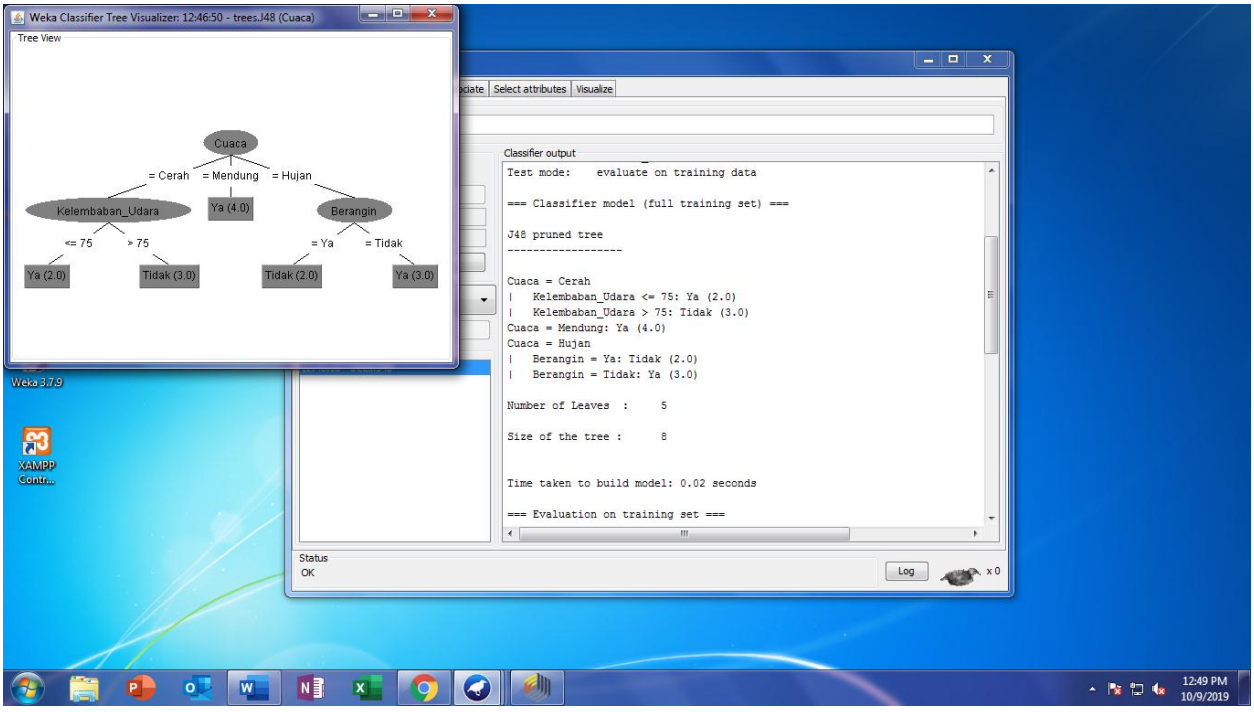
Nama : Aldias Ibnu Habib

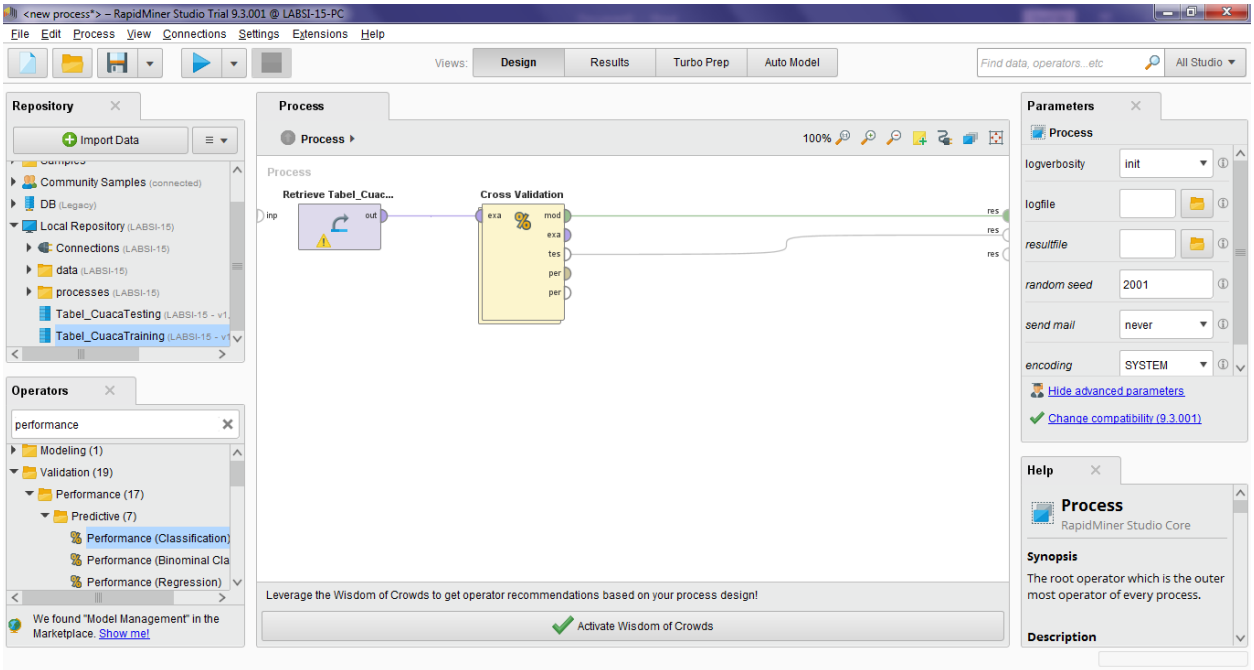
NIM : L200170166

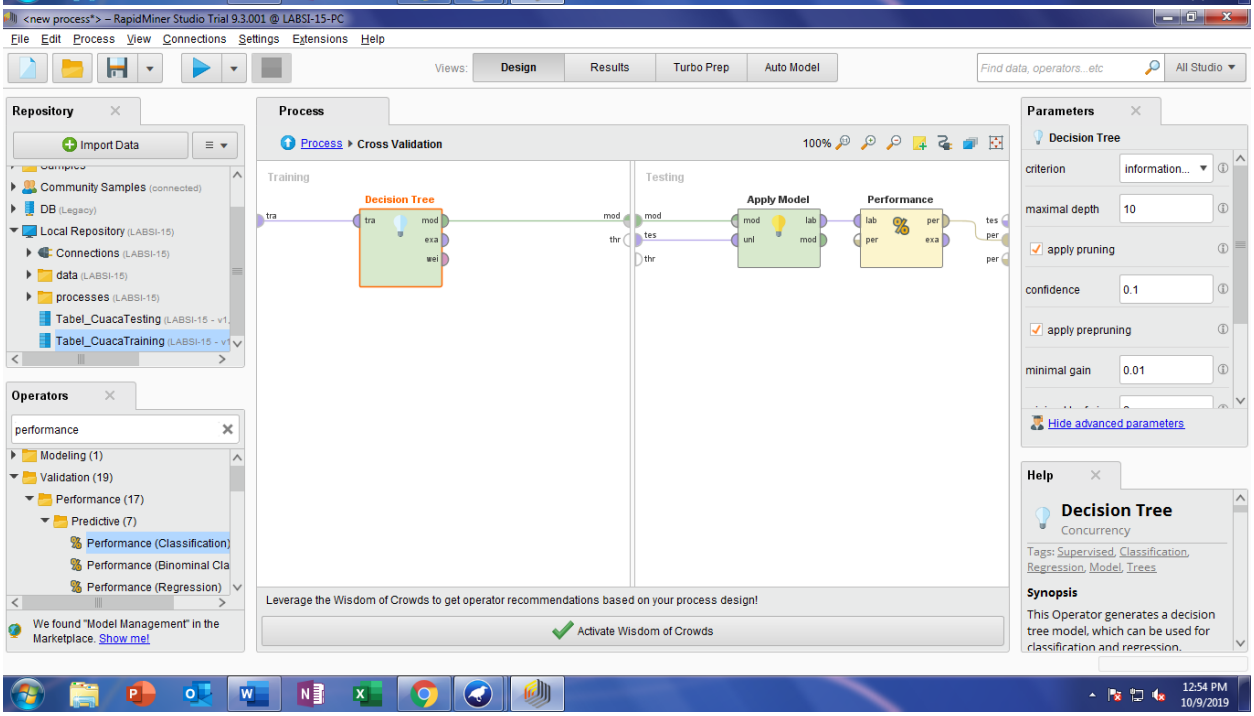
Kelas : F

Modul : 9






<new process*> – RapidMiner Studio Trial 9.3.001 @ LABSI-15-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
Community Samples (connected)
DB (Legacy)
Local Repository (LABSI-15)
Connections (LABSI-15)
data (LABSI-15)
processes (LABSI-15)
Tabel_CuacaTesting (LABSI-15 - v1)
Tabel_CuacaTraining (LABSI-15 - v1)
Operators
performance
Modeling (1)
Validation (19)
Performance (17)
Predictive (7)
Performance (Classification)
Performance (Binominal Cla
Performance (Regression)
We found "Model Management" in the Marketplace. Show me!
Process
Process
100%
Process
Retrieve Tabel_Cuac...
Cross Validation
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 (9.3.001)
Help
Process
RapidMiner Studio Core
Synopsis
The root operator which is the outer most operator of every process.
Description
12:54 PM
10/9/2019


<new process*> – RapidMiner Studio Trial 9.3.001 @ LABSI-15-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
Community Samples (connected)
DB (Legacy)
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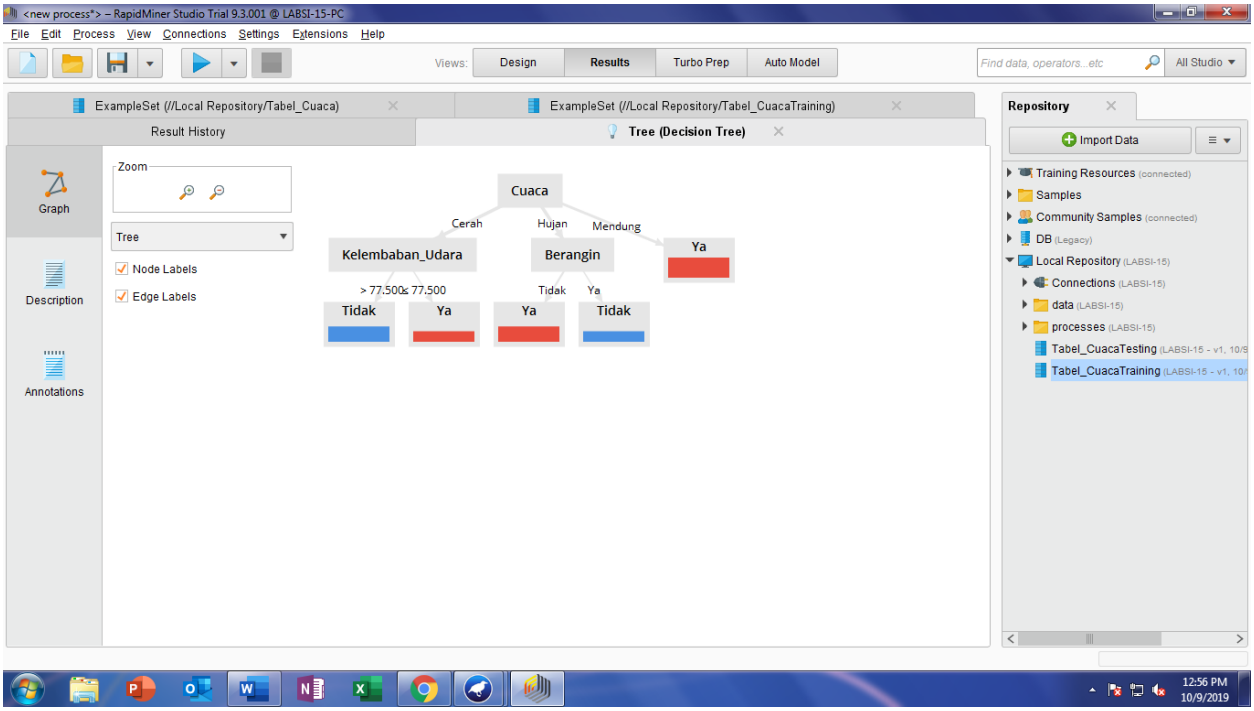
Tabel_CuacaTesting (LABSI-15 - v1)
Tabel_CuacaTraining (LABSI-15 - v1)
Operators
performance
Modeling (1)
Validation (19)
Performance (17)
Predictive (7)
Performance (Classification)
Performance (Binominal Cla
Performance (Regression)
We found "Model Management" in the Marketplace. Show me!
Process
Process Cross Validation
100%
Training
Testing
Decision Tree
Apply Model
Performance
Leverage the Wisdom of Crowds to get operator recommendations based on your process design!
Activate Wisdom of Crowds
Parameters
Decision Tree
criterion information...
maximal depth 10
apply pruning
confidence 0.1
apply prepruning
minimal gain 0.01
Hide advanced parameters
Help
Decision Tree
Concurrency
Tags: Supervised, Classification, Regression, Model, Trees
Synopsis
This Operator generates a decision tree model, which can be used for classification and regression.
12:54 PM
10/9/2019

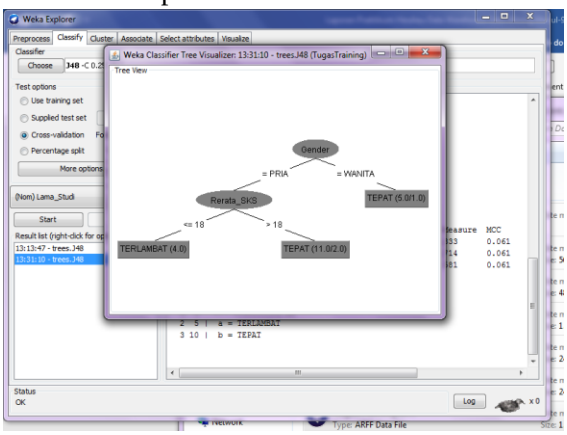


1.

Cuaca	Suhu	Kelembaban_Udara	Berangin	Bermain_Tenis
Cerah	75	65	Tidak	Ya
Cerah	80	68	Ya	Ya
Cerah	83	87	Ya	Tidak
Mendung	70	96	Tidak	Ya
Mendung	68	81	Tidak	Ya
Hujan	65	75	Ya	Ya
Hujan	64	85	Ya	Tidak

2.

a. Pohon keputusan berdasarkan data berikut



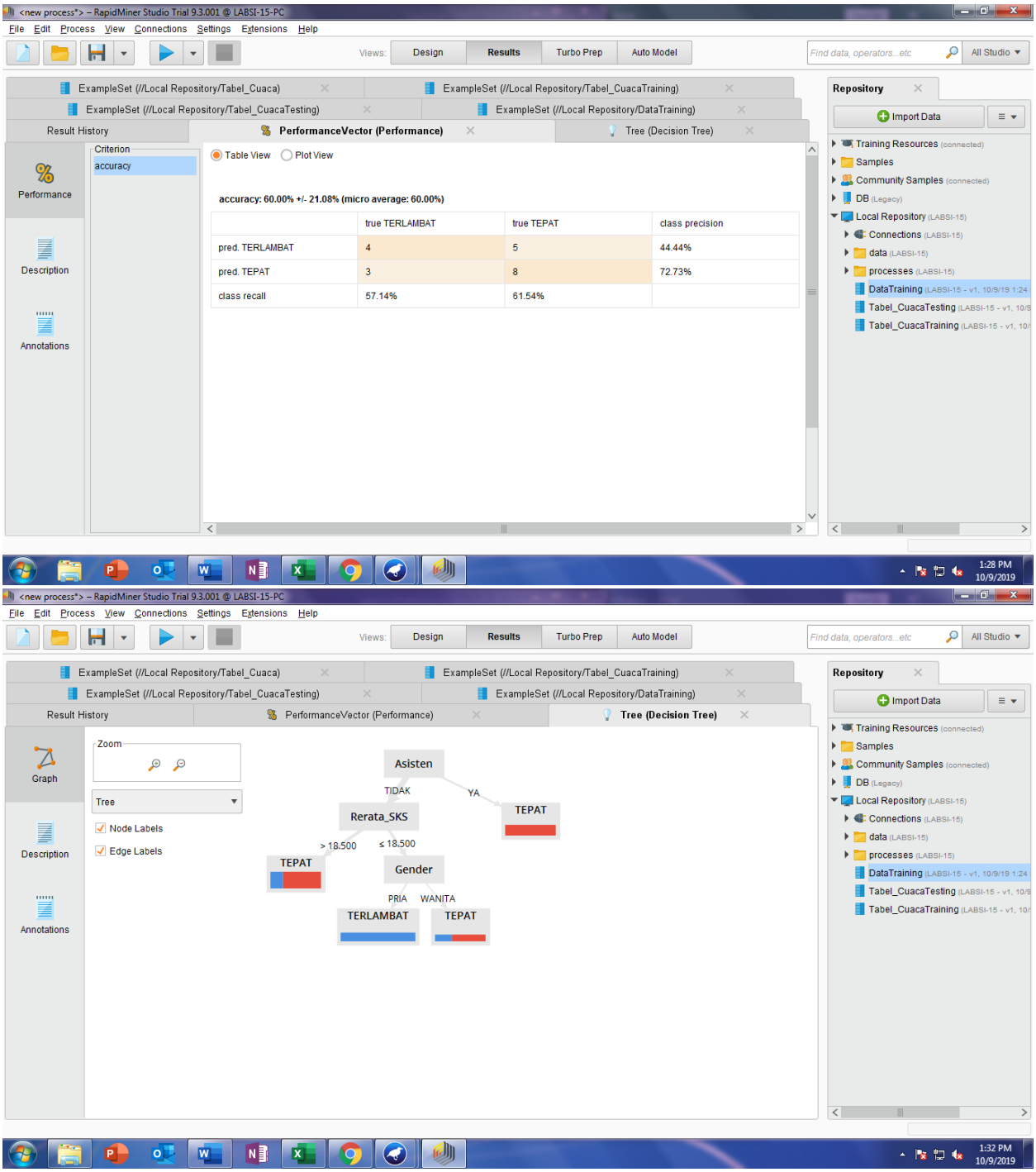
b.

i) Jumlah simpul daun pada pohon keputusan 3

ii) Jumlah simpul keseluruhan pada pohon keputusan 5
iii) Waktu yang dibutuhkan untuk proses pelatihan = 0,2 seconds
iv) Tingkat ketepatan klasifikasi 85%
v) Tingkat ketidaktepatan 15%

3. Data training file excel dari Tugas nomor 1 modul 6 seperti berikut.

a.



b.

i) Jumlah simpul daun pada pohon keputusan 3
ii) Jumlah simpul keseluruhan pada pohon keputusan 5
iii) Waktu yang dibutuhkan untuk proses pelatihan = 0,2 seconds
iv) Tingkat ketepatan klasifikasi 85%
v) Tingkat ketidaktepatan 15%

Klasifikasi yang terbentuk yaitu:

i. Orang yang akan Lama Studi Tepat jika kondisi sebagai berikut:
   Asisten=Tidak, Rerata_SKS>18.500
   Asisten=Tidak, Rerata_SLS<=18.500, Gender=Wanita
   Asisten=Ya
ii. Orang akan Lama Studi Terlambat jika kondisi sebagai berikut:
   Asisten=Tidak, Rerata_SKS<=18.500, Gender=Pria