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Kelas E

Langkah Praktikum Modul 9 Decision Tree

1. Membuka file cuaca.arff dari hasil kegiatan 7.4.1 pada modul 7

Weka Explorer interface showing the 'Cuaca' dataset loaded. The 'Attributes' list includes 'Cuaca', 'Suhu', 'Kelembaban_Udara', 'Berangin', and 'Bermain_Tenis'. The 'Selected attribute' table shows 'Cuaca' with 3 distinct values: 'Cerah' (5 instances, weight 5.0), 'Mendung' (4 instances, weight 4.0), and 'Hujan' (5 instances, weight 5.0). The 'Class' is set to 'Bermain_Tenis (Nom)'.

2. Merancang algoritma decision tree

RapidMiner Studio interface showing a workflow for decision tree analysis. The workflow includes 'Retrieve DataCuaca...' and 'Cross Validation' operators. The 'Parameters' panel shows 'logverbosity' set to 'init' and 'logfile' set to an empty field. The 'Help' panel shows the 'Process' operator description.

File

Edit

Process

View

Connections

Settings

Extensions

Help

Views:

Design

Results

Turbo Prep

Auto Model

Deployments

Find data, operators, etc

All Studio

Repository

Import Data

Samples

Community Samples (connected)

DB (Legacy)

Local Repository (asusX441u)

Connections (asusX441u)

data (asusX441u)

processes (asusX441u)

DataCucac_Training (asusX441u)

Operators

performance

Performance (18)

Predictive (7)

Performance (Classical)

Performance (Binominal)

Performance (Regression)

Performance (Costs)

Performance (Ranking)

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

confidence 0.1

apply prepruning

minimal gain 0.01

minimal leaf size 2

minimal size for split 4

number of prepruning... 3

Hide advanced parameters

Change compatibility (0.5.000)

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.

The screenshot shows the RapidMiner Studio Educational 9.5.0.00 interface. The main window displays the 'PerformanceVector (Performance)' tab, which shows the evaluation results of a Decision Tree model. The table below summarizes the performance metrics:

	true TIDAK	true YA	class precision
pred. TIDAK	2	2	50.00%
pred. YA	3	7	70.00%
class recall	40.00%	77.78%	

The left sidebar shows the 'Criterion accuracy' selected. The right sidebar shows the 'Repository' with 'DataCuaca_Training' selected. The bottom status bar shows 'Activate Windows' and 'Go to Settings to activate Windows'.

b. Tree (Decision Tree)

