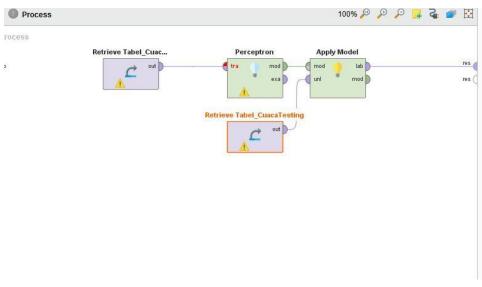
NAMA: YOGA TRI PRIHATIN

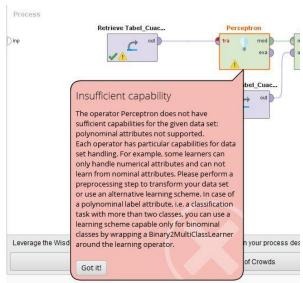
NIM: L200170150

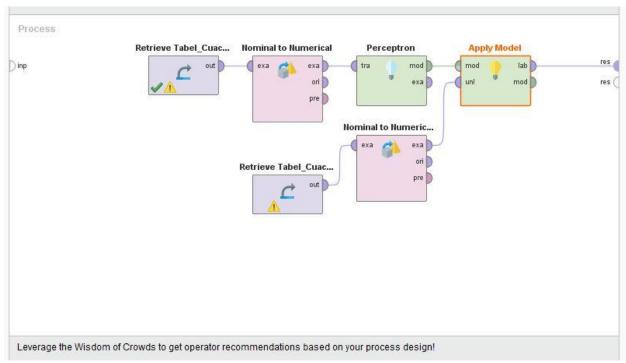
KELAS: F

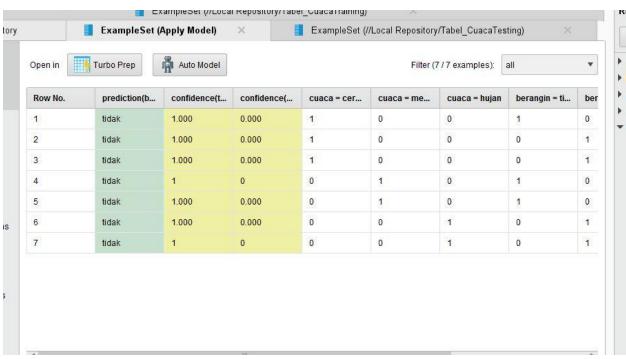
### MODUL 13

### LATIHAN 1

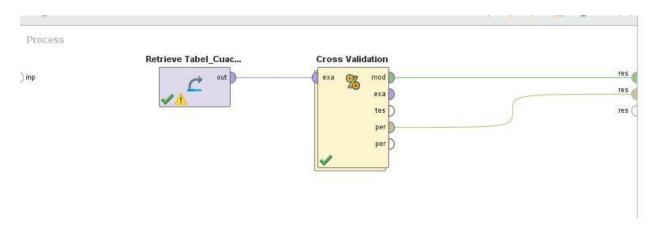


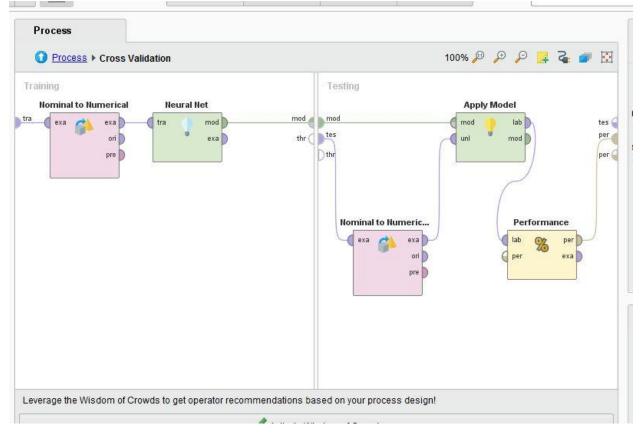


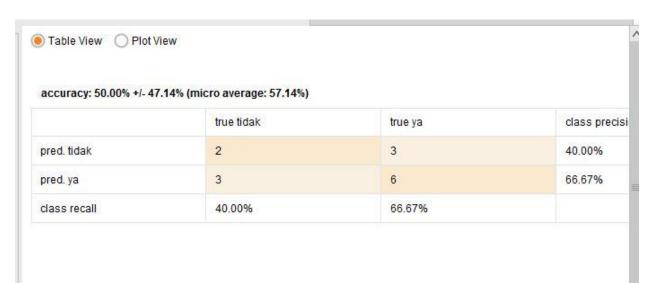


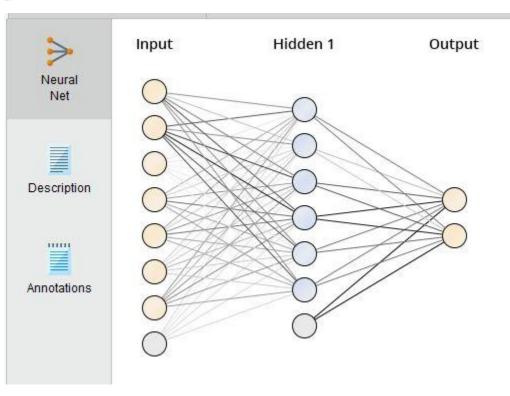


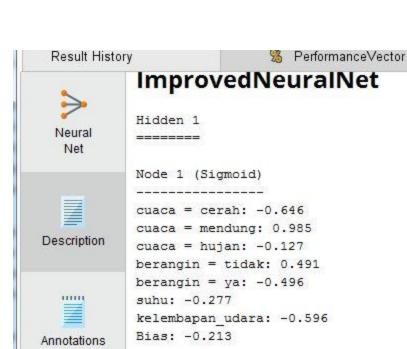
#### LATIHAN 2











Node 2 (Sigmoid)

suhu: -0.178

Bias: -0.114

cuaca = cerah: -0.371
cuaca = mendung: 0.652
cuaca = hujan: -0.118
berangin = tidak: 0.263
berangin = ya: -0.292

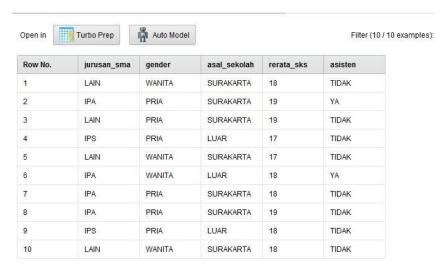
kelembapan udara: -0.440

#### **TUGAS**

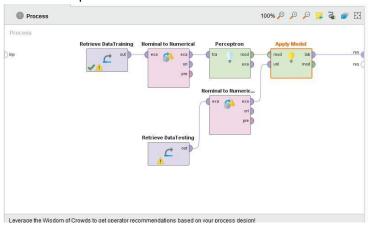
## 1. Data traning



#### **Data Testing**

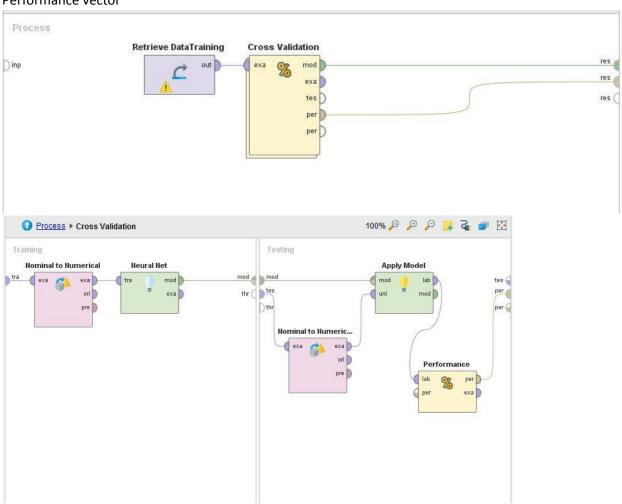


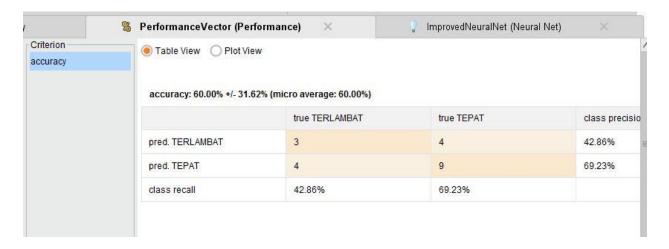
## 2. Model Perceptron



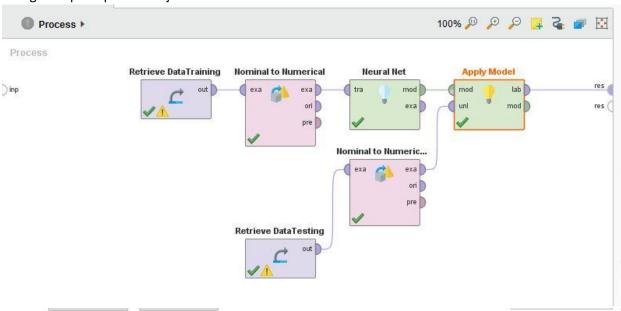
Open in Turbo Prep Auto Model			Filter (10 / 10 examples):				all	
Row No.	prediction(la	confidence(	confidence(	jurusan_sm	jurusan_sm	jurusan_sm	gender = W	g
1	TEPAT	0.462	0.538	1	0	0	1	0
2	TEPAT	0.385	0.615	0	1	0	0	1
3	TERLAMBAT	0.536	0.464	1	0	0	0	1
4	TERLAMBAT	0.579	0.421	0	0	1	0	1
5	TEPAT	0.465	0.535	1	0	0	1	0
6	TEPAT	0.325	0.675	0	1	0	1	0
7	TEPAT	0.458	0.542	0	1	0	0	1
8	TEPAT	0.455	0.545	0	1	0	0	1
9	TERLAMBAT	0.576	0.424	0	0	1	0	1
10	TEPAT	0.462	0.538	1	0	0	1	0

### 3. Performance vector



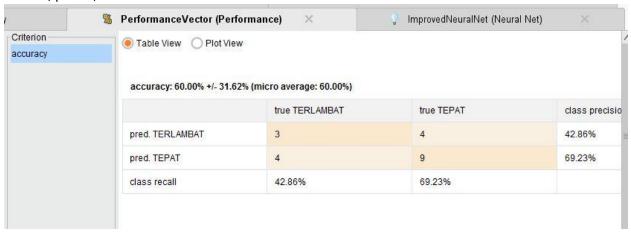


## 4. Mengubah perceptron menjadi neural nat

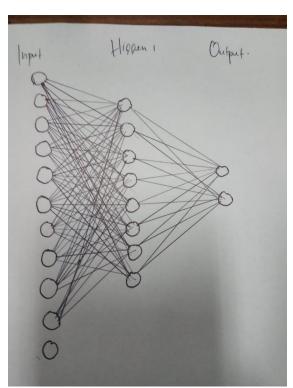


Row No.	prediction(la	confidence(	confidence(	jurusan_sm	jurusan_sm	jurusan_sm	gender = W	ger
1	TEPAT	0.331	0.669	1	0	0	1	0
2	TEPAT	0.027	0.973	0	1	0	0	1
3	TERLAMBAT	0.588	0.412	1	0	0	0	1
4	TERLAMBAT	0.679	0.321	0	0	1	0	1
5	TEPAT	0.399	0.601	1	0	0	1	0
6	TEPAT	0.032	0.968	0	1	0	1	0
7	TEPAT	0.399	0.601	0	1	0	0	1
8	TEPAT	0.325	0.675	0	1	0	0	1
9	TERLAMBAT	0.655	0.345	0	0	1	0	1
10	TEPAT	0.331	0.669	1	0	0	1	0

## 5. Akurasi, presisi, recall



6.



7. input layer = 10 note input dan 1 node berbobot 1Hideen layer = 7 note hidden dan 1 berbobot 1Output layer = 2 node (YA , TIDAK)

# ImprovedNeuralNet

```
Hidden 1
Node 1 (Sigmoid)
-----
jurusan sma = IPS: -0.448
jurusan sma = IPA: 0.515
jurusan sma = LAIN: -0.026
gender = WANITA: 0.439
gender = PRIA: -0.399
asal sekolah = SURAKARTA: 0.268
asal sekolah = LUAR: -0.241
asisten = TIDAK: -0.661
asisten = YA: 0.639
rerata sks: 0.940
Bias: -0.033
Node 2 (Sigmoid)
_____
jurusan sma = IPS: 0.269
jurusan sma = IPA: 0.178
jurusan sma = LAIN: -0.418
```

```
jurusan sma = IPS: 0.269
 jurusan sma = IPA: 0.178
 jurusan_sma = LAIN: -0.418
gender = WANITA: -0.072
gender = PRIA: 0.065
asal sekolah = SURAKARTA: 0.135
asal sekolah = LUAR: -0.166
asisten = TIDAK: -0.420
asisten = YA: 0.379
rerata sks: 1.007
Bias: 0.025
Node 3 (Sigmoid)
_____
jurusan sma = IPS: -0.085
jurusan sma = IPA: 0.282
jurusan_sma = LAIN: -0.208
gender = WANITA: 0.195
gender = PRIA: -0.157
asal_sekolah = SURAKARTA: 0.188
asal_sekolah = LUAR: -0.158
asisten = TIDAK: -0.492
asisten = YA: 0.477
rerata sks: 0.863
Bias: -0.060
```

```
Node 4 (Sigmoid)
_____
jurusan sma = IPS: -0.486
jurusan sma = IPA: 0.540
jurusan sma = LAIN: -0.004
gender = WANITA: 0.451
gender = PRIA: -0.434
asal sekolah = SURAKARTA: 0.251
asal_sekolah = LUAR: -0.282
asisten = TIDAK: -0.599
asisten = YA: 0.644
rerata sks: 1.009
Bias: -0.055
Node 5 (Sigmoid)
_____
jurusan sma = IPS: 0.079
jurusan sma = IPA: 0.202
jurusan sma = LAIN: -0.284
gender = WANITA: 0.085
gender = PRIA: -0.068
asal sekolah = SURAKARTA: 0.150 ------
asal sekolah = LUAR: -0.122
asisten = TIDAK: -0.410
asisten = YA: 0.448
```

```
asal sekolah = SURAKARTA: 0.150
 asal sekolah = LUAR: -0.122
 asisten = TIDAK: -0.410
asisten = YA: 0.448
rerata sks: 0.951
 Bias: 0.041
 Node 6 (Sigmoid)
 _____
 jurusan sma = IPS: -0.173
 jurusan sma = IPA: 0.382
 jurusan sma = LAIN: -0.133
 gender = WANITA: 0.248
 gender = PRIA: -0.236
 asal sekolah = SURAKARTA: 0.201
 asal sekolah = LUAR: -0.222
 asisten = TIDAK: -0.587
 asisten = YA: 0.549
rerata sks: 0.962
 Bias: 0.023
 Node 7 (Sigmoid)
 jurusan sma = IPS: -0.397
 jurusan sma = IPA: 0.486
 iurusan sma = LATN: 0.023
```

```
gender = WANITA: 0.411
                               Output
gender = PRIA: -0.430
asal_sekolah = SURAKARTA: 0.187
asisten = TIDAK: -0.577
asisten = YA: 0.646
                             Node 1: -0.961
rerata_sks: 0.878
                               Node 2: -0.814
Bias: -0.036
                               Node 3: -0.681
                               Node 4: -0.983
                               Node 5: -0.718
Output
                               Node 6: -0.864
                               Node 7: -0.862
                              Threshold: 1.265
Class 'TERLAMBAT' (Sigmoid)
                              Class 'TEPAT' (Sigmoid)
Node 1: -0.961
Node 2: -0.814
                   Node 1: 0.956
Node 2: 0.762
Node 3: 0.705
Node 4: 0.995
Node 5: 0.742
Node 6: 0.844
Node 3: -0.681
Node 4: -0.983
Node 5: -0.718
Node 6: -0.864
Node 7: -0.862
Threshold: 1.265
                             Node 6: 0.844
Class 'TEPAT' (Sigmoid) Node 7: 0.861
Threshold: -1.257
```

#### 9. Kesimpulan:

Kita bisa mendapatkan nilai kelas attribute dengan neuron perceptron dimana hasil prediksi bisa didapatkan berdasarkan berbandingan nilai confidence masing masing nilai kelas TEPAT dan TerLambat.

Dan kita bisa melihat saraf tiruan berdasarkan nilai performance, kita bisa melihat hasil dari neural net untuk melihat bentuk arsitektur JST serta description sigmoid