

ภาคผนวก ช.

แสดงผลการจำแนกคลิปภาพยนตร์ด้วยโปรแกรม WEKA

=== Run information ===

Scheme: weka.classifiers.functions.MultilayerPerceptron -L 0.3 -M 0.5 -N 100 -V 0 -S 0 -E 20 -H a

Relation: movie2009

Instances: 59

Attributes: 4

APL

ASD

DAV

emotion

Test mode: 5-fold cross-validation

=== Classifier model (full training set) ===

Sigmoid Node 0

Inputs Weights

Threshold 2.0788252173328985

Node 2 -2.8489245028427663

Node 3 -2.849041746848313

Sigmoid Node 1

Inputs Weights

Threshold -2.0790922700959418

Node 2 2.866557569222384

Node 3 2.831806548787516

Sigmoid Node 2

Inputs Weights

Threshold 2.3291049903177607

Attrib APL 2.9206755431019897

Attrib ASD 3.001942518085399

Attrib DAV -3.7696162622710734

Sigmoid Node 3

Inputs Weights

Threshold 2.3194128147029307

Attrib APL 2.9219536993329203

Attrib ASD 2.9728964788795182

Attrib DAV -3.7019514926041404

Class Fear

Input

Node 0

Class Non-Fear

Input

Node 1

Time taken to build model: 0.02 seconds

=== Predictions on test data ===

inst#, actual, predicted, error, probability distribution

1	2:Non-Fear	2:Non-Fear		0.125 *0.875
2	2:Non-Fear	1:Fear	+	*0.898 0.102
3	2:Non-Fear	2:Non-Fear		0.056 *0.944
4	2:Non-Fear	2:Non-Fear		0.041 *0.959
5	2:Non-Fear	2:Non-Fear		0.041 *0.959
6	2:Non-Fear	2:Non-Fear		0.048 *0.952
7	2:Non-Fear	2:Non-Fear		0.236 *0.764
8	2:Non-Fear	2:Non-Fear		0.043 *0.957
9	2:Non-Fear	2:Non-Fear		0.05 *0.95
10	1:Fear	1:Fear		*0.958 0.042
11	1:Fear	1:Fear		*0.843 0.157
12	1:Fear	2:Non-Fear	+	0.223 *0.777
1	2:Non-Fear	2:Non-Fear		0.077 *0.923
2	2:Non-Fear	2:Non-Fear		0.036 *0.964
3	2:Non-Fear	2:Non-Fear		0.055 *0.945

4	2:Non-Fear	2:Non-Fear		0.356	*0.644
5	2:Non-Fear	2:Non-Fear		0.038	*0.962
6	2:Non-Fear	2:Non-Fear		0.043	*0.957
7	2:Non-Fear	2:Non-Fear		0.038	*0.962
8	2:Non-Fear	2:Non-Fear		0.112	*0.888
9	2:Non-Fear	2:Non-Fear		0.076	*0.924
10	1:Fear	1:Fear		*0.868	0.132
11	1:Fear	1:Fear		*0.908	0.092
12	1:Fear	2:Non-Fear	+	0.491	*0.509
1	2:Non-Fear	2:Non-Fear		0.247	*0.753
2	2:Non-Fear	1:Fear	+	*0.663	0.337
3	2:Non-Fear	2:Non-Fear		0.008	*0.992
4	2:Non-Fear	2:Non-Fear		0.021	*0.979
5	2:Non-Fear	2:Non-Fear		0.018	*0.982
6	2:Non-Fear	2:Non-Fear		0.007	*0.993
7	2:Non-Fear	2:Non-Fear		0.007	*0.993
8	2:Non-Fear	2:Non-Fear		0.037	*0.963
9	2:Non-Fear	2:Non-Fear		0.062	*0.938
10	1:Fear	2:Non-Fear	+	0.16	*0.84
11	1:Fear	2:Non-Fear	+	0.011	*0.989
12	1:Fear	1:Fear		*0.592	0.408
1	2:Non-Fear	2:Non-Fear		0.083	*0.917
2	2:Non-Fear	2:Non-Fear		0.33	*0.67
3	2:Non-Fear	2:Non-Fear		0.098	*0.902
4	2:Non-Fear	1:Fear	+	*0.639	0.361
5	2:Non-Fear	2:Non-Fear		0.083	*0.917
6	2:Non-Fear	2:Non-Fear		0.087	*0.913
7	2:Non-Fear	2:Non-Fear		0.246	*0.754
8	2:Non-Fear	2:Non-Fear		0.151	*0.849
9	1:Fear	1:Fear		*0.582	0.418
10	1:Fear	2:Non-Fear	+	0.22	*0.78
11	1:Fear	1:Fear		*0.68	0.32
12	1:Fear	1:Fear		*0.893	0.107
1	2:Non-Fear	2:Non-Fear		0.413	*0.587

2	2:Non-Fear	2:Non-Fear	0.014	*0.986
3	2:Non-Fear	2:Non-Fear	0.013	*0.987
4	2:Non-Fear	2:Non-Fear	0.013	*0.987
5	2:Non-Fear	2:Non-Fear	0.013	*0.987
6	2:Non-Fear	2:Non-Fear	0.014	*0.986
7	2:Non-Fear	2:Non-Fear	0.014	*0.986
8	2:Non-Fear	2:Non-Fear	0.487	*0.513
9	1:Fear	1:Fear	*0.599	0.401
10	1:Fear	1:Fear	*0.538	0.462
11	1:Fear	1:Fear	*0.824	0.176

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances	51	86.4407 %
Incorrectly Classified Instances	8	13.5593 %
Kappa statistic	0.643	
Mean absolute error	0.2161	
Root mean squared error	0.3362	
Relative absolute error	54.0192 %	
Root relative squared error	75.4882 %	
Total Number of Instances	59	

=== Detailed Accuracy By Class ===

	TP Rate	FP Rate	Precision	Recall	F-Measure	ROC Area	Class
	0.688	0.07	0.786	0.688	0.733	0.869	Fear
	0.93	0.313	0.889	0.93	0.909	0.869	Non-Fear
Weighted Avg.	0.864	0.247	0.861	0.864	0.861	0.869	

=== Confusion Matrix ===

a b <-- classified as

11 5 | a = Fear

3 40 | b = Non-Fear