TABLE XIII
OUTPUT DSS

Name	Out economy mic	Out Academic	Out Household	Out Area	Out Decision
Student 21	15.49	49.16	62.86	42.97	68.82
Student 15	26.06	68.23	48.54	58.90	62.49
Student 27	19.38	43.21	75.01	28.22	62.17
Student 11	25.79	47.49	65.99	49.38	61.05
Student 1	34.25	71.94	50.62	21.74	60.90
Student 7	28.61	49.74	50.62	31.35	59.37
Student 17	22.57	36.67	59.49	74.30	59.00
Student 6	31.85	58.69	50.62	58.90	57.91
Student 14	27.08	39.77	75.01	21.74	57.82
Student 3	34.10	52.11	78.95	42.97	56.57
Student 8	58.92	69.69	50.62	42.97	55.74
Student 29	35.06	49.80	50.52	21.74	55.20
Student 5	39.01	50.90	50.52	49.38	53.11
Student 22	22.10	28.29	75.01	28.22	51.84
Student 9	45.49	48.36	75.01	42.97	50.85
Student 19	34.10	33.75	59.49	51.34	49.80
Student 10	50.03	47.82	48.54	40.15	49.63
Student 18	35.06	34.13	62.86	28.22	49.44
Student 16	40.78	38.12	50.62	58.90	48.93
Student 2	58.92	52.26	48.54	40.15	48.22
Student 12	50.03	41.36	48.54	22.88	47.64
Student 4	60.53	51.97	50.60	49.38	47.54
Student 13	50.03	40.76	48.54	22.88	47.40
Student 26	35.06	29.49	50.61	42.97	46.67
Student 24	39.01	27.71	50.52	51.34	43.37
Student 23	38.96	27.95	72.56	21.74	43.12
Student 20	50.00	30.88	62.86	22.45	42.15
Student 30	71.14	49.16	50.52	22.45	40.64
Student 28	40.78	23.75	50.61	22.88	39.34
Student 25	60.10	16.38	50.62	51.34	31.69

Measurement of model performance using a confusion matrix. Model accuracy can use the formula [20]:

$$accuracy = \frac{TP+TN}{TP+TN+FP+FN} * 100\% \quad (3)$$

Notes: TP: True Positive
TN: True Negative
FP: False Positive
FN: False Negative

Model accuracy is obtained by comparing the results of the fuzzy system with manual results. The results obtained show that the system accuracy reaches 85%.

IV. CONCLUSION

In designing the input-output, it must attempt to minimize the ideal number of inputs is 2 input 1 output. By having 2 inputs, it can facilitate the researcher to observe the surface that is formed. The smoother the surface that is formed, the more human the decisions will be obtained. The evaluation of the model using a confusion matrix obtained an accuracy rate of 85%. The suggestion for future research is the significance of software that can help the researcher to get more optimal fuzzy and rule base sets.

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