

CHAPTER 5

CLOSING

5.1 Conclusion

Based on the results of the research conducted, the authors draw several conclusions including:

1. From the results of experiments and tests using the C4.5 decision tree, the accuracy value is 100.00%, precision is 100.00% and recall is 100.00%.
2. The results of calculations carried out manually using the C4.5 algorithm show the highest additional value of the attributes used, namely Assurance, Tangibles, Responsiveness and Reliability to predict online learning performance. Manual calculations and using rapidminer software give the same results both in the form of decision trees and rule, it can be concluded that the results of the calculations are correct.
3. After analyzing student satisfaction on online learning performance, it can be said that students are very satisfied with the percentage value of 81.05%, with the highest aspect value being on the Reliability aspect 84.05% and the lowest aspect being on Assurance 78.59%. If viewed per question, there are two questions with a low percentage value, there are online lecture questions on time and according to schedule by 70.92% and online lecture questions provide more convenience in interacting with students 68.30%.

5.2 Suggestions

The suggestions given in this study are:

1. Further research can try to analyze satisfaction with other algorithms as a form of development of this research.
2. The C4.5 method is one of the data mining methods that can be used to predict and classify in various fields so that it is open for other research to use this method.
3. The satisfaction of students in the Public Health Study Program at the Universitas Muhammadiyah Kalimantan Timur in the 2019 and 2020 batches

can be seen in this study and can be a recommendation for the Study Program as an evaluation material.