

CHAPTER V

CONCLUSION AND SUGGESTION

5.1. Conclusion

From comprehensive system evaluation on chapter 4, study's findings suggest that the development of a Discord bot for game recommendations will be very helpful for users in their searches because this bot will process descriptive word data from users and then process it into recommendation results. This bot performs very well in Discord, having good hit rate, precision, and recall values, namely 0.9636 for hit rate, 0.6473 for precision, and 0.9636 for recall.

The high hit rate and recall values indicate that the bot was able to find at least one relevant recommendation in 96.36% of the test data. Its precision score was 64.73%, indicating that the average recommendation matched the genre or label of the reference game. This demonstrates that this hybrid approach, combining TF-IDF and collaborative filtering, is capable of producing relevant and consistent recommendations.

5.2. Development Suggestions

1. The methods used are very different and can only perform data matching based on names, therefore it is best to do this with datasets that have the same ID number.
2. In the test, it was found that BERT is very helpful in understanding the context of a word, therefore it is recommended to use BERT as a reference for content-based filtering.