

IV. CONCLUSION

Based on the experimental results and discussions, it can be concluded that the Artificial Neural Network (ANN) model with four layers, 26 features as input, and activation function of ReLu and SoftMax succeeded in detecting COVID-19 patients through the voice recording of forced cough. The best ANN model was obtained with an accuracy of 98%, with a loss value of less than 3%. It shows that this model can be a solution for early detection of COVID-19 infection at no cost.

The research that has been carried out is still far from perfect. Several efforts will be made to develop this research, including adding the number of datasets and augmenting audio files to increase data variations to reduce the risk of overfitting or underfitting. Additionally, the model will be deployed for Android or web applications so that people can easily access it anytime and anywhere directly.

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