

## **ABSTRACT**

### **PERFORMANCE ANALYSIS OF A PEST AND PLANT DISEASE CHATBOT USING INDOBERT**

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*Amid the increasing threats of pests and diseases that reduce agricultural yields, and the limited access to information for farmers, innovative solutions are highly needed. This research aims to develop and analyze the performance of a plant pest and disease chatbot using the IndoBERT model to assist farmers in addressing plant health issues. The method used involves applying the IndoBERT model with fine-tuning techniques on a relevant specific dataset. The research results show that this chatbot achieves a fairly good level of accuracy in detecting and identifying several plant diseases as well as providing effective treatment recommendations. The testing results indicate that the IndoBERT model performs well in building the chatbot.*

**Keywords:** *Analysis, Chatbot, Pest, IndoBERT, Performance*