

Deep learning application helps farmers classify diseases on tea leaves.

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Abstract: In the context of the agricultural sector increasingly demanding high professional skills from farmers, this topic focuses on developing a deep learning-based system to support the classification of diseases on tea leaves. The objective of the research is to build and evaluate the effectiveness of a machine learning model to improve the quality of disease management in tea plants. The research method combines the processes of image data collection, preprocessing, training, and optimization of the deep learning model. The expected results will significantly contribute to increasing productivity and reducing losses caused by diseases in tea plants, thereby enhancing economic efficiency for farmers.

Keywords: Deep learning, tea leaf disease classification, agriculture, disease management, machine learning model