

Application of deep learning model for plant leaf disease classification

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Abstract: The thesis focuses on developing Convolutional Neural Network (CNN) models to identify various types of plant diseases on crops such as tomatoes, potatoes, and corn. By analyzing morphological features through leaf images, the system can classify diseases caused by fungi, bacteria, or nutrient deficiencies. The research process includes building a clean dataset, performing Data Augmentation, and fine-tuning the model to achieve optimal accuracy. The product aims to provide digital support for smart agriculture.

Keywords: Plant leaf disease classification, Convolutional Neural Network (CNN), Deep learning

References

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