

# Palm Tree Diseases and Classification

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## ABSTRACT

Agriculture plays a significant role in India's economy due to a growing population. Numerous researchers with a focus on computer vision believe agriculture to be a challenging topic of study. There is currently a lack of research on early detection, disease classification, and detection of diseases. Palm tree diseases must be identified and classified as soon as possible in order to prevent abnormal growth and subsequent loss of output. Palm tree disease classification remains a challenging task, despite numerous state-of-the-art approaches proposing different methodologies. These include reducing noise, extracting important traits, and eliminating superfluous ones. Deep learning models, Machine learning algorithms have become popular study subjects recently and are typically utilized to the categorization of plant leaf diseases. Significant research has gone into identifying the basic components based on attributes like quality, size, colour of leaf, etc., as opposed to the more imprecise methods and algorithms utilized in the past for disease identification. Farmers can take preventative action if they notice problems early.

**Keywords:** Deep Learning; Machine Learning; Smart agriculture

## How to Cite

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