

PADDY CROP DISEASE DETECTION USING MACHINE LEARNING

ABSTRACT

Now a days, farmers are facing loss in crop production due to many reasons. One of the major problem is crop diseases. This is due to lack of knowledge about the disease and pesticides or insecticides available in order to control the disease. But finding the disease and providing best remedies requires expert opinion or prior knowledge. This is time consuming and expensive. Therefore highly effective and cost efficient method is needed for fast detection of crop disease. To solve the above issue a Machine Learning model is developing by using Support Vector Machine(SVM) algorithm for disease detection. By analyzing images of paddy leaves, the model extracts relevant features and applies trained model to detect and classify diseases. This model calculates the affected area in the leaf by using cv2 module. The input layer takes the images of the diseased and healthy rice plant and output layer gives disease detection and affected area in the leaf. The remedies provide proper information regarding the pesticide or insecticide to be used in order to cure the disease.

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