FERTILIZER RECOMMENDATION SYSTEM FOR DISEASE PREDICTION

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S.NO.	TITLE	AUTHOR & YEAR	DESCRIPTION	ADVANTAGES	DISADVANTAGES	PROBLEM STATEMENT
1	Application of machine learning in detection of blast disease in South Indian rice crops.	S.Ramesh D.Vydeki & 1970	This paper proposes rice blast disease detection mechanism using Machine learning algorithm, to identify the disease in the early stage of the crop cultivation and increase the rice agriculture production in an effective manner.	It detects the disease effectively so the cultivation of paddy has been raised and gives good quantity and quality.	The simulation results show that KNN based classification method provides an accuracy of 85% for the blast affected leaf images and 86% for the normal leaf images.	According to this survey, going to work for giving it 100% accuracy.
2	Machine vision system for rice disease detection.	Pradeep seelwal, A.Sharma & 2022	To get maximum value added products, quality product monitoring is the most fundamental requirement. Production of agriculture products can	Quality production is increased by using machine learning techniques so that the food security is increased.	Disease can be predicted accurately only using complex application.	Usage of possible and non - destructive application leads to the easy diagnosis.

			be minimized due to many of the reasons. The fundamental key factor of the quality reduction is the diseases or fungal infection present in the plants.			
3	Using Deep Learning for Image-Based Plant Disease Detection	S. Mohanty, David P. Hughes, M. Salathé & 2016	Using a public dataset of 54,306 images of diseased and healthy plant leaves collected under controlled conditions, a deep convolutional neural network is trained to identify 14 crop species and 26 diseases.	The trained model achieves an accuracy of 99.35% on a held-out test set, demonstrating the feasibility of this approach.	Disease can be predicted only for limited crops and it is not applicable for all crops.	Trying to detect the disease for more crops.
4	Cardamon plant disease detection approach using efficient Net V2	S.C.K,J.C.D and N.Patil	It includes colletotrichum blight and phyllostica leaf spot of cardoman plant and black rot,isariposis leaf spot of grapes with high accuracy level.	Efficient Net V2 convolutional network and parameter efficiency.	There are unwanted background image so can't able to detect the plant correctly.	Under research to avoid the unwanted input background image.
5	End to End deep learning model for corn leaf disease classification	H.Amin,A.Daruim, M.Solliman	Detect the disease in corn plants and they use deep learning model to identify healthy and	Utilizing end to end deep learning model to identify healthy and unhealthy corn plant leaf.	Efficient Net b0 and Demenet 121 only used for corn leaf disease R	Process is going on to detect the disease for more crops.

			unhealthy crops.			
6	Bean leaf disease classification using mobile network models	E.Elfatimi,R.Eryigit	The new way of predicting bean plant using mobile network which is a convolutional neural network that provides model for mobile app.	Achieved it using real bean leaf images and created a single dataset and compared the leaf of beans.	One of the defects is that classification training accuracy value decreases as soon as the batch size increases and learning rate decreases.	Working for giving it 100% accuracy.