LITERATURE SURVEY

TITLE	AUTHOR	YEAR OF PUBLICATION	ADVANTAGES	DISADVANTAGES
Adapted approach for Species Classification	Schmid Huber, J.	2015	K-Means clustering is used for image segmentation and images are classified under one of the classes by using multi-class support vector machine. The classification accuracy is achieved up to 89%.	K means clustering cannot be implemented for a higher degree of classes.
Detection And Classification of images using Detection Line	Haibing Wu and Xiaodong Gu	2015	Images were segmented by a detection line (DL) method. Six geometric features and 3 color features methodology were presented classifying the image to an accuracy of 90.9%.	Complexity is a very high line detection line method.
Study on Classification of Plants Images using Combined Classifier. International Journal	Ghosh S, Kumar H, Nayak JS	2015	The nearest-neighbour method is the simplest of all algorithms for predicting the class of a test example. VM was found competitive with the best available machine learning algorithms in classifying high-dimensional data sets. Genetic algorithms are good at refining irrelevant and noisy features selected for classification.	Disadvantage of the k-NN method is the time complexity of making predictions,Classifying using PNN and SVM is not explored.

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Deep Learning for Plant Identification in Natural EnvironmentComputational Intelligence and Neuroscience,	Yu Sun, Yuan Liu, Guan Wang, Haiyan Zhang	2017	Using SGD optimization, the proposed ResNet26 model results in 91.78% accuracy.e ResNet26 model on the public Flavia dataset with 1907 images achieved an accuracy of 99.65%.	Deep learning model used does not focus on prediction, insect detection, disease segmentation. The BJFU100 database does not give information on different phases of life cycles of species, instead focusing only on one phase.
Classification of Cotton Leaf Diseases Using AlexNet and Machine Learning Models. Current Journal of Applied Science and Technology	Borugadda, P., Lakshmi, R., & Govindu, S.	2021	For a given imbalanced dataset, the optimal deployment model is chosen based on the macro F1_score. AlexNet model gives the best result among all classification models with an F1_score of 94.92%.	Computational complexity is high due to more no. of convolutional layers and connected layers along with different classes thereby application of ML algorithms for classification is high.