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| S. No. | Authors | Title | Publishing | Technique | Dataset | Pros | Cons |
| 1 | Nilay Ganatra & Atul Patel | A Multiclass Plant Leaf Disease Detection using Image Processing and Machine  Learning Techniques | 10 April 2020-Published by Research Trend | 4 different classifiers such as random Forest, SVM, KNN and ANN are used | 38 classes & 14956 images | SVM outperforms with greater accuracy over other algorithms in the process of classification and regression. | Performance decreases with increase in dataset. |
| 2 | N Anasta, F X A Setyawan and H Fitriawan | Disease detection in banana trees using an image processing-based thermal camera | April 2021-Published by IOP Publishing Ltd. | Matlab and thermal FLIR camera as a major instrument. | NA | Accuracy levels over 80%. | Couldn't determine the speed at which the disease is spreading. |
| 3 | Prof. A. R. Bhagat Patil ,Lokesh Sharma | A Literature Review on Detection of Plant Diseases | European Journal of Molecular & Clinical Medicine FROM Datta Meghe Institute of medical Sciences, Sawangi (M), Wardha | CNN gave reliable outputs. Inception v3 model is trained with the dataset. | Around 1000+ plants have been tested. | Accuracy of 31.4%. |  |
| 4 | Parul Sharma , Yash Paul Singh Berwal , Wiqas Ghai | Performance analysis of deep learning CNN models for disease detection in plants using image segmentation | Accepted 14 November 2019 | CNN, S-CNN and F-CNN models are used. | 17,929 images from 637 farms. | S-CNN gave an accuracy of 98.6% and 42.3% accuracy when F-CNN is used. | S-CNN gave better results than F-CNN |
| 5 | Arti N. Rathod, Bhavesh Tanawal, Vatsal Shah | Image Processing Techniques for Detection of Leaf Disease | Volume 3, Issue 11, November 2013 | HPCCDD algorithm for image classification, Otsu segmentation, K-means clustering and NN | NA | Work can be extended by using hybrid algorithms and NN. | Should upgrade so that there will be an improvement in terms of speed and accuracy |

LITERATURE SURVEY ON IMAGE CLASSIFICATION & IDENTIFICATION OF PLANT DISEASES