

Plants Disease Detection System

Pratik R. Nagare¹, Dev. S. Nandgavkar², Rohi R. Sawant³, Shobhana Gaikwad⁴

Students, Department of Computer Technology^{1,2,3,4}

Bharti Vidyapeeth Institute of Technology, Navi Mumbai, Maharashtra, India

Abstract: *As the world's population grows, so does the demand for food. In such conditions, plant diseases become a huge threat to agricultural products, resulting in severe effects for farmers. To avoid this, plant diseases must be discovered and treated as soon as possible to avoid significant repercussions. The current manual approach of detecting plant diseases is time-consuming and expensive for farmers, and it can also result in wrong diagnosis. As a result, we can employ technologies such as image processing and deep learning to successfully detect plant diseases in their early stages.*

Keywords: Plant Disease, Image Processing, Image Acquisition, Segmentation, Feature Extraction, Classification

REFERENCES

- [1]. Ms. Nilam Bhise, Ms. Shreya Kathet, Mast. Sagar Jaiswar, Prof. Amarja Adgaonkar, "Plant Disease Detection using Machine Learning" – July 2020
- [2]. Malvika Ranjan, "Plant Leaf Disease Detection Using Deep Convolution Neural Network Method of Deep Learning" – 2020I.
- [3]. Sammy V. Militante, "Plant Leaf Detection and Disease Recognition using DeepLearning" - 2019 IEEE Eurasia Conference on IOT, Communication and Engineering. (3- 6 October,2019)
- [4]. Md. Arifur Rahman, "Improved Segmentation Approach for Plant Disease Detection", 1st International Conference on Advances in Science Engineering and Robotics Technology 2019 (ICASERT 2019),(3-5 May,2019)
- [5]. Mercelin Francis, "Disease Detection and Classification in Agricultural Plants Using Convolutional Neural Networks: A Visual Understanding" , 2019 6th international Conference on Signal Processing and Integrated Networks(SPIN),(7-8 March,2019)
- [6]. S. Santhana Hari, "Detection of plant disease by leaf image processing convolutional neural network", 2019 International Conference on Vision Towards Emerging Trends in Communication and Networking (ViTECoN). (30-31 March,2019)