

International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

Volume 2, Issue 5, May 2022

Plant Disease Detection using Leaf Image Features based on Support Vector Machine

Sandesh Kumar, Anjali Mishra, Aman Kumar, Nishant Kishu Sinhgad College of Engineering, Vadgaon (B.K.), Pune, Maharashtra, India

Abstract: Each country's major need is Agricultural things. Tolerating plants are ruined by illnesses, this effects the country's horticultural creation and its cash related assets. In development for a convincing harvest yield early affirmation of illnesses is basic. Redone methods for solicitation of plant infections additionally help making a move later unmistakable the side effects of leaf diseases. In the provincial locale, obvious proof of plant infections is incredibly fundamental as they hamper strength and adequacy of the plant which acknowledge a basic part in country capability. These issues are conventional in plants, on the off chance that genuine assumption strategies are not pushed toward it could in a certified way anytime influence the new development. The stream method for perceiving affliction is finished by a truly skilled perspective and certifiable appraisal, which is somewhat long and expensive truth be told. We are presenting the man-made comprehension based changed plant leaf defilement region and depiction for fast and clear exposure of disease and from that point gathering it. This main sign of our own design is towards developing the efficiency of yields in developing. In this approach we have follow two or three phases for example picture assortment, picture pre-processing, extraction of part and solicitation.

Keywords: Support Vector Machine (SVM), Fertilizer, Leaf Diseases, Agriculture

REFERENCES

- [1]. Marwan Adnan Jasim and Jamal Mustafa AL-Tuwaijari, "Plant Leaf Diseases Detection and Classification Using Image Processing and Deep Learning Techniques", 2020 International Conference on Computer Science and Software Engineering, IEEE 2020.
- [2]. Poojan Panchal, Vignesh Charan Raman and Shamla Mantri, "Plant Diseases Detection and Classification using Machine Learning Models", IEEE 2019.
- [3]. Melike Sardogan, Adem Tuncer and Yunus Ozen, "Plant Leaf Disease Detection and Classification Based on CNN with LV Algorithm", IEEE 2018.
- [4]. Flora Zidane and Julien Marot,"Nondestructive Control of Fruit Quality via Millimeter Waves and Classification Techniques: Investigations in the Automated Health Monitoring of Fruits", IEEE Antennas and Propagation Magazine, Oct. 2020
- [5]. Hossein Azarmdela, Ahmad Jahanbakhshib." Evaluation of image processing technique as an expert system in mulberry fruit grading based on ripeness level using artificial neural networks (ANNs) and support vector machine (SVM)", Elsevier, 2020
- [6]. Harshita Nagar and R.S. Sharma ,"A Comprehensive Survey on Pest DetectionTechniques using Image Processing", IEEE,2020
- [7]. Sharath DMand RohanMG "Disease Detection in Pomegranate using Image Processing", International Conference on Trends in Electronics and Informatics, 2020
- [8]. M. Pushpavalli, "Image Processing Technique for Fruit Grading", International Journal of Engineering and Advanced Technology (IJEAT) 2019