| S.no | Paper Name and Year | Author name | Approach | Accuracy |
| --- | --- | --- | --- | --- |
| 1 | A Multi-Source Domain Feature Adaptation Network for Potato Disease Recognition in Field Environment[24] | Xueze Gao, Quan Feng, Shuzhi Wang, Jianhua Zhang, and Sen Yang | CNN | 80% |
| 2 | Plant diseases and pests detection based on deep learning: a review[21] | Jun Liu and Xuewei Wang | CNN | 99.64% |
| 3 | Plant Disease Detection Using Machine Learning[18] | Shima Ramesh, Niveditha M, Pooja R, Prasad Bhat N, Shashank N, Mr. Ramachandra Hebbar, Mr. P V Vinod | Random Forest classifier | 70.14% |
| 4 | Plant Disease Detection Algorithm Based on Efficient Swin Transformer[25] | Wei Liu 1, Ao Zhang | Random Forest Model | 99.35% |
| 5 | A Survey on Different Plant Diseases Detection Using Machine Learning Techniques[22] | Sk Mahmudul Hassan,  Khwairakpam Amitab,  Michal Jasinski,  Zbigniew Leonowicz,  Elzbieta Jasinska,  Tomas Novak,  Arnab Kumar Maji | Various models (e.g., MobileNet, InceptionV3) | 73.50% |
| 6 | Leaf-Based Plant Disease Detection and Explainable AI[24] | [Saurav Sagar](https://arxiv.org/search/cs?searchtype=author&query=Sagar,+S), [Mohammed Javed](https://arxiv.org/search/cs?searchtype=author&query=Javed,+M), [David S Doermann](https://arxiv.org/search/cs?searchtype=author&query=Doermann,+D+S) | Various models (e.g., AlexNet, GoogLeNet) | 73.50% |
| 7 | Automatic plant disease detection using computationally efficient convolutional neural network[24] | Muhammad Rizwan, Samina Bibi, Sana Ul Haq, Muhammad Asif, Tariqullah Jan, Mohammad Haseeb Zafar | Custom CNN architecture | 96.86% |
| 8 | Plant Disease detection and classification techniques: a comparative study of the performances[24] | Wubetu barud demilie | Yolov5,InceptionV3,CNN | 98.75%,97%,97% |
| 9 | DFN-PSAN: Multi-level deep information feature fusion extraction network for interpretable plant disease classification[24] | Guowei Dai, Zhimin Tian, Jinchao Fan,C.K.Sunil,Christine Dewi | Yolov5,CNN | 99.73%,68.99% |
| 10 | *ViT-SmartAgri*: Vision Transformer andSmartphone-Based Plant Disease Detection for Smart Agriculture[24] | Utpal Barman, Parismita Sarma,Mirzanur Rahman,Vaskar Deka,Swati Lakhar,Vaihali Sharma, Manob Jyoti Saikia | Mobilenet | 99.30% |
| 11 | Deep learning system for paddy plant detection and classification[22] | Amrita Haridasan,Jeena Thomas,Ebin Deni Raj | SVM Classification model | 75% |
| 12 | Plant Disease Detection and Segmentation using End-to-End YOLOv8: A Comprehensive Approach[23] | Syed Asif Ahmad Qadri  Nen-Fu Huang,  Taiba Majid Wani,  Showkat Ahmad Bhat | YOLOV8 | 98.22% |
| 13 | Plant Disease Detection and Classification using CNN Model with Optimized Activation Function[20] | S. Yegneshwar Yadhav, T. Senthilkumar, S. Jayanthy, J. Judeson Antony Kovilpillai | CNN | 95% |
| 14 | Towards Sustainable Agricultural Systems: A Lightweight Deep Learning Model for Plant Disease Detection[22] | Sana Parez, Naqqash Dilshad, Turki M. Alanazi, and Jong Weon Lee | CNN(by using ResTS Technique) | 90.23% |
| 15 | Deep Learning for Agricultural Plant Disease Detection[20] | Shantala Giraddi, Shrinivas Desai, and Anupama Deshpande | CNN | 70.5% |
| 16 | A Survey on Different Plant Diseases Detection Using Machine Learning Techniques[22] | Sk Mahmudul Hassan, Khwairakpam Amitab, Michal Jasinski, Zbigniew Leonowicz, Elzbieta Jasinska, Tomas Novak, and Arnab Kumar Maji. | CNN | 80.38% |
| 17 | Plant Disease Detection and Classification: A Systematic Literature Review[23] | Wasswa Shafik, Ali Tufail, Abdallah Namoun, Liyanage Chandratilak De Silva, Rosyzie Anna Awg Haji Mohd Apong | CNN | 57.1% |
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| 18 | Analysis of the composition and function of rhizosphere microbial communities in plants with tobacco bacterial wilt disease and healthy plants[24] | Simbo Diakite, Francess Sia Saquee, Nyasha John Kavhiza, Elena Nikolaevna Pakina, Prince Emmanuel Norman, Elena Mikhailovna Chudinova, Archil Anzorovich Tsindeliani, Inna Vladimirovna Pototskaya | CNN | 90% |

Datasets:

1. <https://www.kaggle.com/competitions/plant-pathology-2020-fgvc7/rules>
2. <https://www.kaggle.com/code/stpeteishii/leaf-rice-disease-classify-densenet201>
3. <https://www.kaggle.com/datasets/vbookshelf/rice-leaf-diseases>
4. <https://www.kaggle.com/datasets/maimunulkjisan/rice-leaf-dataset-from-mendeley-data>
5. <https://universe.roboflow.com/search?q=plant%2520disease>
6. <https://www.kaggle.com/code/ketle15012001/predict-plant-disease-pbl5>