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(71)Name of Applicant :

1)Mr. Ashish Nagila

Address of Applicant : Assistant Professor, Department of Computer Science and Engineering, IFTM University,

Moradabad-244102 -----

2)Mr. Sanjeev Bhardwaj 3)Prof. Vaibhav Trivedi 4)Mr. Ankur Jain Name of Applicant: NA

Address of Applicant: NA (72)Name of Inventor: 1)Mr. Ashish Nagila

Address of Applicant: Assistant Professor, Department of Computer Science and Engineering, IFTM University,

Moradabad-244102 -----

2)Mr. Sanjeev Bhardwaj

Address of Applicant : Assistant Professor, Department of Computer Science and Engineering, IFTM University, Moradabad-244102 -----

3)Prof. Vaibhav Trivedi

Address of Applicant :Professor, Department of Mechanical Engineering, IFTM University, Moradabad-244102 -----

4)Mr. Ankur Jain

Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, IFTM University, Moradabad-244102 ------

(57) Abstract:

Agriculture ensures that all human beings have enough to eat, even in the face of fast growth in the population. It is recommended that plant diseases be predicted at an early stage in agriculture because it is necessary to provide food for the entire population. However, it is unfortunate that illnesses cannot be predicted early in the crop's development. The concept behind the invention is to raise awareness among farmers about cutting-edge technologies that can be used to reduce diseases in plant leaves. The approaches of machine learning and image processing with an accurate algorithm are identified to detect leaf diseases in the tomato plant, which is a readily available vegetable because it is the only one available. The samples of tomato leaves with abnormalities are considered in this inquiry. Farmers will be able to quickly identify diseases in tomato leaves based on the early symptoms if they have these disorder samples on hand.

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