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Detection of Defected Maize Leaf using Image Processing Techniques

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One of the major obstacles to producing Maize is the various types of maize leaf diseases. Early detection

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II. Related Work

and northern leaf blight. In our proposed method, the subtracted channel image is calculated by subtracting the extracted green channel from the red channel of the corresponding processed image. After then, the image segmentation is done by converting the subtracted channel image to a binary image. Finally, the detection of infected leaves is done by taking the decision based on calculating the number of white pixels present on the leaf images. The processed images that include both infected and healthy leaves have only been considered for the experimental analysis. The results show that our proposed method successfully detects the defected maize leaves from the healthy leaf images.

III. Proposed Methodology

IV. Result And Discussion

V. Conclusion and Future Scope

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I. Introduction

Agriculture is always a primary factor of food providence which is increased day by day due to increase in the population of the world. India's economy mainly depends on agriculture as many people live in rural areas and practice farming. Maize or corn is one of the usually cultivated agricultural products in India and all over the world. According to the "ICAR-Indian Institute of Maize Research" Maize is mostly cultivated food crop after rice and wheat, which is cultivated mainly in the monsoon season, which covers 80% of the agricultural area. As a result, India stands at 4th position in terms of area and 7th in production, among all the Maize growing countries. In this country, Maize is used as one of the necessary

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