

Plant Leaf Disease Detection using IoT, DL and ML

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Abstract: Agriculture is crucial in the development of the country. It takes the major role in the economy of the country. The major problem arises in the agriculture is the plant diseases. Due to heavy rains and use of the pesticides and global warming many types of disease are born and infected the crops. These plant diseases lead to the death of the crop at early stage. Various detection methods are introduced for plant diseases has some draw backs in them. Whereas plant disease detection methods are made by using IoT, ML and DL algorithms. In this paper, to overcome the problems in the previous methods. Our model is made by combining the IoT, ML and DL, by placing the algorithms in three different stages to get the higher accuracy in the plant disease detection. And end the disease at the early stage. By using three classes of tomato plants, system for plant disease detection using IoT, ML and DL was developed to predict the disease at early stage in stage-by-stage testing.

Keywords: Internet of things, CNN, Random Forest, Agriculture

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