Abstract

Rice is one of the most important food crops in the world. Rice is often infested by some diseases caused by some pathogens including fungi, bacteria and viruses.There are several leaf diseases having various symptoms. It is difficult to identify the type and intensity of diseases by experienced farmers. With the expertise and knowledge of experts, it is possible to identify the plant diseases to certain extend in small farms. This traditional method requires availability of specialists and should possess good knowledge. In several places, there is an issue of finding the experts. Secondly, the judgement can be of low accuracy.

In the existing system they used deep learning and image processing techniques to detect Rice bacterial leaf blight, Rice sheath blight and Rice blast diseases.We are planning to detect diseases such as rice bacterial leaf blight,rice brown spot and leaf smut,these are detected using convolution Neural Network.

For detecting rice diseases early and accurately, we presented a web application using Deep Convolution Neural Network for detecting rice plant diseases accurately.This web application is supported by Django, Python and MySQL.

TIMELINE

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| **TASKS** | **DURATION** |
| Design of web application interface | 01/08/19  To  15/08/19 |
| Segmentation of image from dataset | 16/08/19  To  28/08/19 |
| Testing | 29/08/19  To  06/09/19 |
| Prediction of disease | 09/09/19  To  23/09/19 |
| Database Operations | 24/09/19  To  07/10/19 |
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