

Plant-disease-detection

Abstract

This data contains images of diseased plant leaves acquired from a specific village in India.

We will make use of Deep Learning to detect the type of disease a particular leaf or plant has acquired.

Objective

We will be deploying the model on an app so that the user can make use of the camera on their cell phone's to capture the image of the plant leaf which in turn will be processed on our trained model to detect the type of disease in that particular plant's leaves.

Major Checkpoints and Pipelines

Data Science

- Data cleaning and pipelining
- Building a model
- Training the model
- Testing the model
- Improvising the model
- Saving the model in a pickle file extension

Creation of API

- Importing the Pickle file
- Testing the API

App Development

- Front End
 - Home page
 - Input integration
- Back End
 - Integrating the API with the app
 - Integrating a camera in the app
 - Calling of responses for the input.

Tech stack

- Python
- GIT
- Github
- JAVA
- XML
- Android Studio