HACKAITHON

DOMAIN:

AGRICULTURE

PROJECT:

DISEASE_DETECTOR

ALPHA

Derryl Kevin Monis

Kratee Pareek

Sushil K Shastry

Project Idea

Users can take a photo of a particular crop

This picture can be uploaded in our project website.

In the the background, our image classification model will analyse and make a prediction

This prediction will be displayed on the screen.

Project Importance

Recent studies have shown that nearly 40% of the harvests are lost due to diseases.

Farmers need to be guided for the selection of right fertilizers and pesticides as early as possible.

Plant diseases affect the growth of their respective species, therefore their early identification is very important.

Technology Stack

Python

Tensorflow

HTML

CSS

Bootstrap

Javascript

Flask

Implementation Details

Datasets are obtained from Kaggle.

Datasets are obtained for each crop as we are not just detecting whether the plant is healthy or not but also what disease it has.

We built our model using Tensorflow.

The model prediction will be implemented in a website built with Flask.

Limitations

The dataset contains only images of leaves plucked and placed in an evenly coloured background. There is not much variety in the background.

Due to this the model's understanding of the dataset is limited and hence can't accurately predict new images that have different background.

THANK YOU