DOCTOR PLANT [DETECTION SYSTEM FOR DIDEASE PLANT]

Faculty of Computers and Information

Damanhour University

SUPERVISOR: DR/Ahmed Hamed

Aisha Abd_Elazeem Koritum
Sohaila Ebrahim Mostafa
Fawzia Awad AboHassan
Mai Shehata Ramadan
Mai Gamal Atef

ABSTRACT

We created a web application that detects diseases in plant leaves using deep learning, where we use a convolutional neural network to classify leaves.
This project plays an important role in the field of agriculture because it aims to help farmers and agricultural engineers, which helps to increase soil efficiency.

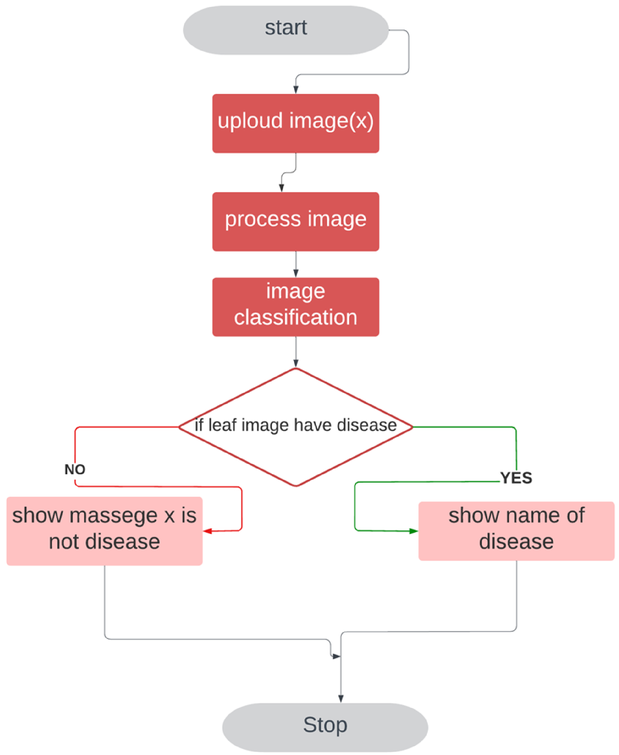
OBJECTIVE

The software product "Plant Disease Detection" is a web application designed to detect a variety of diseases in a variety of plants by just looking at a picture of a plant's leaves and give us a treatment or description of that disease to know how to deal with it

METHODOLOGY

The tools which we use in this project

- Python
- Convolutional Neural Networks (CNN)
- google.colab
- Keras
- TensorFlow
- kaggle
- PHP
- MYSQL



METHODOLOGY

We analyze 54,306 images of plant leaves, which have a spread of 38 class labels assigned to them. Each class label is a crop-disease pair, and we make an attempt to predict the crop-disease pair given just the image of the plant leaf.
In all the approaches described in this paper, we resize the images to 256 × 256 Pixels, and we perform both the model optimization and predictions on these downscaled images.
For this project we have used a public dataset for plant leaf disease detection called Plant Village curated by Sharada P. The dataset consists of 87000 RGB images of healthy and unhealthy plant leaves having 38 classes out of which We have selected only 25 classes for experimentation of our algorithm

IMPORTANT!

Avoid using too much technical detail or using excessive jargon when presenting them.

RESULTS/FINDINGS

Results show the outcome of the research and should answer the question or hypothesis stated in the introduction. State what you've found from your study. You can also list your findings in bullets.

CONCLUSION

Summarize your study and let the viewers know two to three key findings. You can also add a description of each that can give them an idea of what comes next. This section can also include any implications of the study, and if there are any actions or recommendations for future study.