Project

Mango Leaf Disease Detection

Objective

 Diseases and pests cause great economic loss to the mango industry every year. The detection of various mango diseases is challenging for the farmers as the symptoms produced by different diseases may be very similar, and may be present simultaneously. This research paper is an attempt to provide the timely and accurate detection and identification of mango leaf diseases

Background

• The system is able to accurately identify different diseases of crops like cotton, sugarcane and wheat leaves. It provides a useful tool for farmers to detect diseases early and take appropriate treatment measures. This document discusses a system for predicting plant diseases using image processing.

Software Requirements

- Good Understanding of Python Language.
- Google Collab Notebook / Jupyter Notebook.
- Roboflow Application.
- Ultralytics Library.
- Stable Internet Connection.

Future Scope

 Plant diseases cause low agricultural productivity. Plant diseases are challenging to control and identify by the majority of farmers. In order to reduce future losses, early disease diagnosis is necessary. The proposed method involves preprocessing the mango leaf images, followed by training the model to classify them into categories of Healthy or Unhealthy Leaf.

Conclusion

• In this project we had successfully identified the type of leaf easily with the help of software weather it is healthy or unhealthy on the basis of there image or video input to the software with accuracy of result.

References

1. https://www.rgmcet.edu.in/NBA/ECE/Project%20Reports/2022-23%20TOMATO%20LEAF%20DISEASE%20DETECTION%20USING%20CNN.pdf

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1. https://ieeexplore.ieee.org/document/9395751

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1. https://colab.research.google.com/github/roboflow-ai/notebooks/blob/main/notebooks/train-yolov8-object-detection-on-custom-dataset.ipynb