Welcome to the Plant Health Checker Quick Startup Guide!

Group 7: Faith Akinlade, Smit Desai, Pratham Waghela

Required Files:

1. Image_preprocessing_file.py
2. CNN_Build.py
3. Model_predict.py
4. Data_manager.py
5. Gui_interface.py
6. Background_fixed.jpg
7. Plant Dataset Lite 2.zip
8. Test_plant_health.py

Repository:

https://github.com/FaithAkinlade/Plant-Health-Checker

How to Get Started:

1. Please download all required files into your pyCharm IDE, download all necessary modules and run them in this order:
   a. Image_preprocessing_file.py
   b. CNN_Build.py
   c. Model_predict.py
   d. Data_manager.py
   e. Gui_interface.py
2. Enjoy analyzing leaf pictures! These are the controls:
   a. Select Plant Image – allows the user to select an image of a leaf from their computer.
   b. Analyze Plant Health – prompts the program to analyze the health of the plant based on the image.
   c. Save current photo – allows the user to save the photo they just analyzed for later reference.
   d. View History List – provides a log of all past photos that have been analyzed.
   e. Reset Selection – allows the user to reset the program and choose another image to analyze.
   f. Exit – Closes the program.