AgriVision AI V1.0

NAWA for Engineering, Consulting, & AI Solutions

Overview:

Field	Description
Model Name	AgriVision AI V1.0
Type	Image Classification (CNN)
Framework	TensorFlow / Keras
Interface	Streamlit Web Application
Release Date	26/06/2025
Maintainer	NAWA's AI-Division

Model Description:

AgriVision AI is a deep learning model trained to detect 48 types of plant diseases and healthy states across 14 different crops. It leverages convolutional neural networks trained on over 74,000 labelled leaf images.

Intended Use:

Purpose	Description
Primary	Early detection and classification of crop diseases via image upload
Target Users	Farmers, Agronomists, Agricultural Researchers
Deployment Form	Web Application (via Streamlit)
Device	Works on desktop and mobile browsers

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Disease Name: Tomato___Tomato_Yellow_Leaf_Curl_Virus

Data:

Field	Description
Source	Public domain, curated via Kaggle and other sources
Size	74,016 labeled images
Classes	49 (48 diseases + healthy states)
Images Size	128 × 128 pixels
Colour Mode	RGB
Data Split	[Specify if known — e.g., 80/10/10 Train/Validation/Test]

Classes Covered:

Includes detection for:

1. Fruits/Crops: Apple, Blueberry, Cherry, Corn, Grape, Olive, Orange, Peach, Pepper, Potato, Raspberry, Soybean, Squash, Strawberry, Tomato.
2. Diseases: e.g., Apple Scab, Late Blight, Bacterial Spot, Powdery Mildew, Citrus Greening, etc.
3. Healthy states for all supported crops.

Contact/Support:

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