## **Plant Disease Prediction Report**

Disease: Potato\_\_\_\_Early\_blight

Date: 2025-08-03 00:29

Disease Name: Potato\_\_\_Early\_blight

Affected Crop: Potato

Typical Occurrence:

- -Common in temperate and subtropical regions worldwide, especially in fields with repeated potato or tomato cropping.
- -Most prevalent mid to late growing season, especially when plants are under stress (e.g., drought, nutrient deficiency).

Conditions Favoring Disease:

- -Warm temperatures (2429C) and frequent dew, rain, or irrigation that keep leaves wet.
- -Older leaves and stressed plants are more susceptible, especially with poor nitrogen supply or other stresses.

Symptoms:

- -Brown to black concentric ring lesions (target spots) on older leaves, often with yellow halos.
- -Premature leaf drop, starting from the bottom and progressing upward.
- -Dark sunken lesions on stems and tubers, reducing quality and storage potential.

Cause:

- -Fungal pathogen: Alternaria solani
- -Survives in plant debris, soil, and infected tubers; spreads via wind, rain, or irrigation splash.

Prevention:

- -Crop Rotation: Rotate with non-host crops (like cereals) for at least 2 years to reduce inoculum.
- -Resistant Varieties and Proper Nutrition: Use early blightresistant potato cultivars and avoid plant stress through balanced fertilization.

Treatment:

- -Fungicide Application: Apply protective fungicides such as chlorothalonil, mancozeb, or azoxystrobin at regular intervals starting early in the season.
- -Field Sanitation: Remove and destroy infected plant debris after harvest to reduce overwintering sources.