

# Ultra-Fast Plant Disease Detection Report

## with Explainable AI Analysis

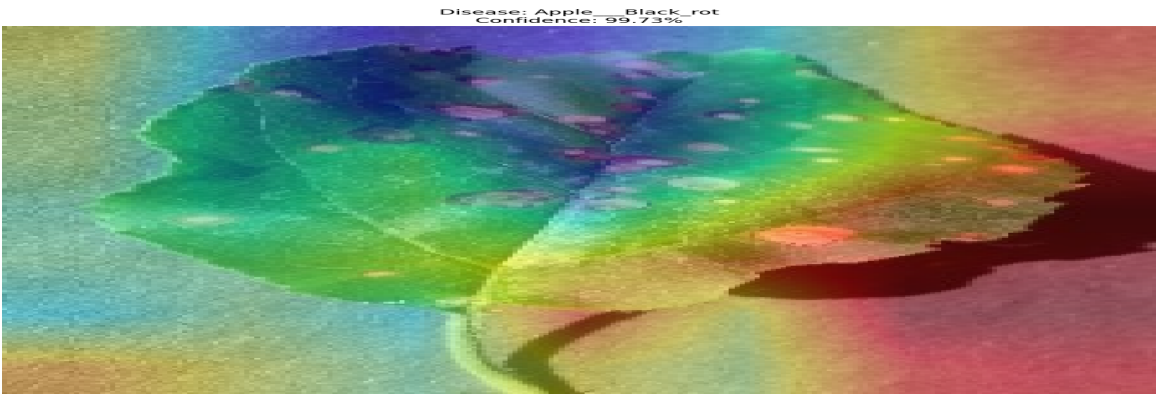
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Image: 20250712\_105957\_0bc40cc3-6a85-480e-a22f-967a866a56a1\_\_\_\_JR\_FrgE.S  
2784\_input.jpg

### ■ Diagnosis Results

Detected Disease:	Apple - Black rot
Confidence Score:	99.73%
Severity Level:	High

### ■ AI Explanation - Grad-CAM Visualization

The visualization shows which parts of the leaf the AI focused on. Red/yellow areas indicate regions that most influenced the diagnosis.



### ■ Disease Description

Black rot is caused by the fungus *Botryosphaeria obtusa* affecting leaves, fruit, and bark.

### ■ Causes

- Fungal infection
- Drought stress
- Bark wounds
- Poor sanitation

### ■ Symptoms

- Dark lesions on leaves
- Mummified fruit
- Branch cankers
- Premature drop

## ■ Treatment & Remedies

- Prune diseased wood
- Remove mummified fruit
- Apply fungicides
- Improve sanitation

## ■ Prevention & Maintenance

- Regular pruning
- Proper irrigation
- Wound protection
- Debris removal

■■ **IMPORTANT DISCLAIMER:** This report is generated by an automated AI system. The Grad-CAM visualization shows AI attention areas but doesn't guarantee accuracy. Please consult with professional plant pathologists for confirmation and detailed treatment plans.