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2Q16

Cognitive Computing

Assignment – 11

Introduction

This project is an apple leaf disease detection model built using LandingAI's computer vision platform to identify unhealthy apple tree foliage. Utilizing the Anomaly Detection project type, the model employs a binary classification approach that distinguishes between normal healthy apple leaves and anomalous diseased specimens. Each image serves as its own label - either "Normal" or "Abnormal" - allowing the model to identify deviations from healthy leaf patterns.
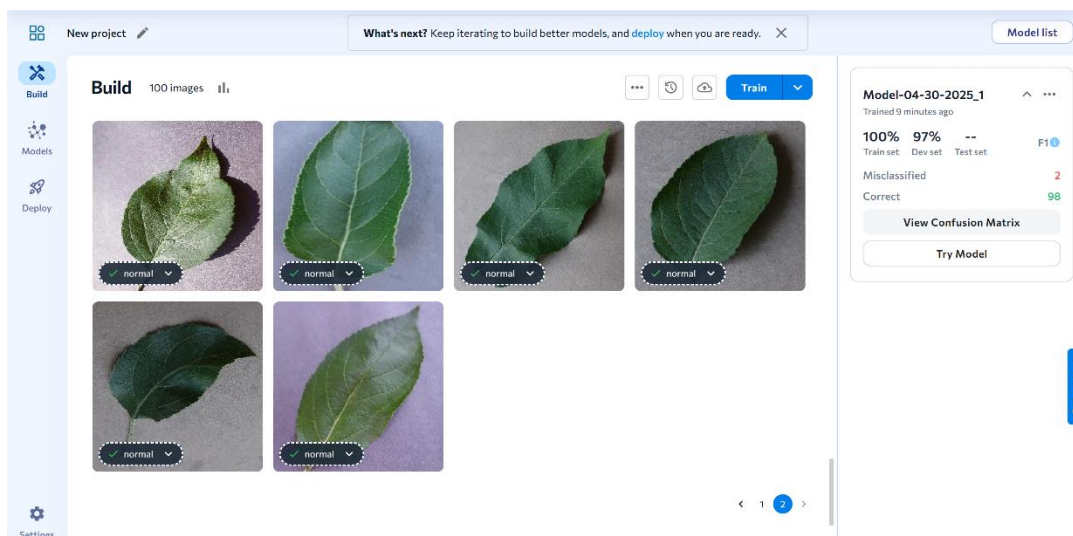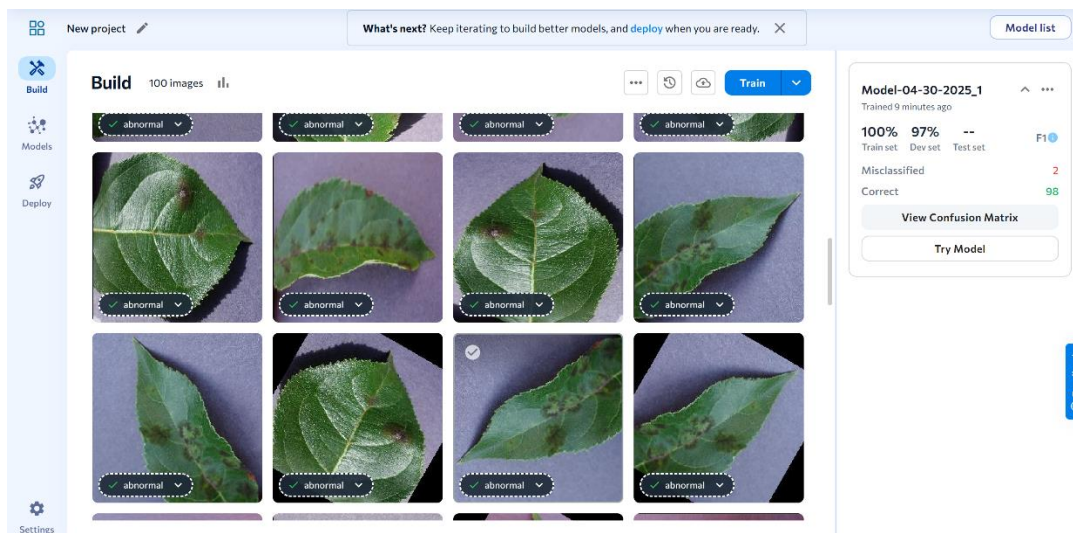
Model-04-30-2025_1

Try Model ··· ✕

Performance

F1 ⌄

100%	**97%**	**--**	Threshold: **0.25** ⓘ
Train set (40)	Dev set (60)	Test set (0)	

Ground truth

	abnormal	normal	Recall
abnormal	49	1	98.0%
normal	1	49	98.0%
Precision	98.0%	98.0%	

abnormal normal

Prediction

To adjust the anomaly threshold, view visual predictions, or add your own evaluation set, please access the full report on the Models page.

View Full Report

Try this model

✕
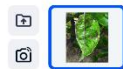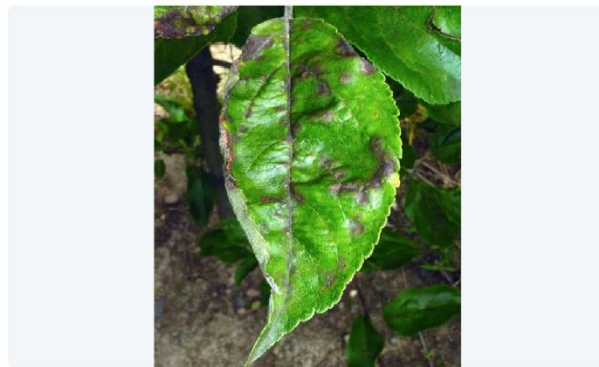
Anomaly Threshold

[slider] 0.25

Deploy

Prediction

abnormal

Model-04-30-2025_1 ✎

⤢ Expand ✕

Training Information **Performance Report**

Evaluation set: Train set ⌄   Labeled Data: (40 images)   Anomaly Threshold: 0.25 **Adjust**

◯ **100.0%** F1 ⓘ	◯ **100.0%** Precision ⓘ	◯ **100.0%** Recall ⓘ

Analyze by confusion matrix Analyze all images

Confusion Matrix Learn more ↗

Ground truth

	abnormal	normal	Recall
abnormal	0	0	--
normal	0	40	100.0%
Precision	--	100.0%	

abnormal normal

Prediction