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Lab Assignment-11

Cognitive Computing UCS420

Landing AI (Vision-based Cognitive System)

This project involves developing a corn anomaly detection model using LandingAI's computer vision platform to identify unhealthy corn plants. Leveraging the Anomaly Detection project type, the model uses binary classification to differentiate between healthy corn and abnormal, potentially diseased samples. Each image is labeled as either "Normal" or "Abnormal," enabling the model to detect irregularities in corn leaf patterns.

The screenshot displays the LandingLens web interface for a corn anomaly detection project. The main workspace is titled "Build" and shows 100 images. The interface includes a sidebar with "Build", "Models", and "Deploy" sections. The main area displays a grid of corn leaf images, each with a "normal" label and a dropdown menu. The "Prediction: Model-04-30-2025_2 (0.28)" is selected. A "Train" button is visible. On the right, a "Model list" panel shows two models: "Model-04-30-2025_2" (Trained 6 minutes ago) and "Model-04-30-2025_1" (Trained 10 minutes ago). The metrics for Model-04-30-2025_2 are: Train set 100%, Dev set 98%, Test set --, F1 --, Misclassified 1, and Correct 99. The metrics for Model-04-30-2025_1 are: Train set 100%, Dev set 100%, Test set --, F1 --, Misclassified --, and Correct --. Both models have "View Confusion Matrix" and "Try Model" buttons. A "Feedback" button is located at the bottom right of the model list.

Model	Train set	Dev set	Test set	F1	Misclassified	Correct
Model-04-30-2025_2	100%	98%	--	--	1	99
Model-04-30-2025_1	100%	100%	--	--	--	--

New project

What's next? Keep iterating to build better models, and [deploy](#) when you are ready.

Model list

Build

100 images

Filter Sort

Ground truth

Prediction: Model-04-30-2025_2 (0.28)

Heatmap

Settings

Model-04-30-2025_2

Trained 6 minutes ago

100%

98%

--

F1

Train set

Dev set

Test set

Misclassified 1

Correct 99

View Confusion Matrix

Try Model

Model-04-30-2025_1

Trained 10 minutes ago

100%

100%

--

F1

Train set

Dev set

Test set

View Confusion Matrix

Try Model

Performance

F1

100% 98% -- Threshold: 0.28

Train set (40) Dev set (60) Test set (0)

Ground truth		Recall	
abnormal	50	0	100.0%
normal	1	49	98.0%
Precision	98.0%	100.0%	
	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](#)

Training Information Performance Report

Evaluation set: Train set ▾ Labeled Data: (40 images) Anomaly Threshold: 0.28 [Adjust](#)



100.0%
F1 ⓘ



100.0%
Precision ⓘ



100.0%
Recall ⓘ

Analyze by confusion matrix

Analyze all images

Confusion Matrix [Learn more](#)

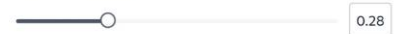
Ground truth			Recall
abnormal	0	0	--
	0	40	100.0%
normal			
Precision		--	100.0%
	abnormal	normal	
	Prediction		

Feedback

Try this model



Anomaly Threshold



0.28

Deploy

Prediction

normal

