

Vision System to Detect Product Loss in Tomato Harvesting

Tomato Troopers (CSE-315)

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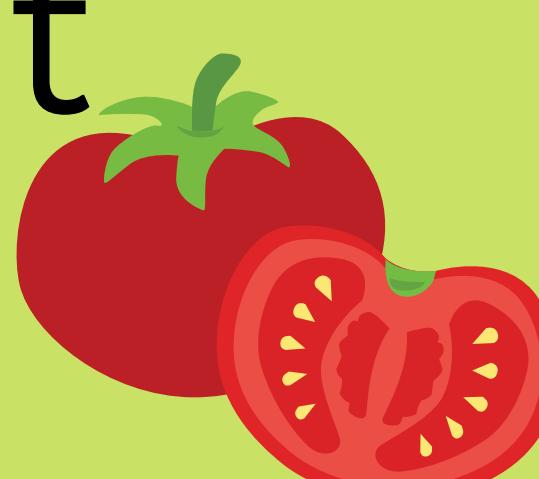


Stakeholder

Morning Star operates with the largest production scale in the world and supplies over 40% of the national market with tomato-based ingredients.

The Problem

As of now, harvester drivers do not have a way of knowing how many tomatoes drop while harvesting causing the Morning Star Co. to lose revenue.



The Solution

Creating a model that can detect and count tomatoes seen and also alert the harvester driver when a large amount of tomatoes are identified so the harvester can be adjusted to minimize tomato loss.

Platforms Used



Python



OpenCV



Google Colab



Tensorflow