

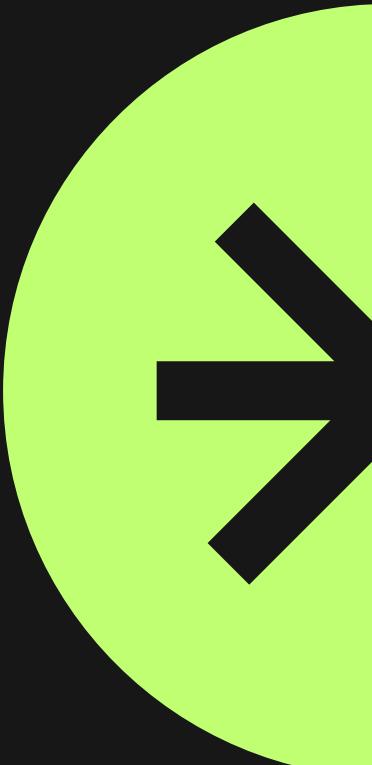


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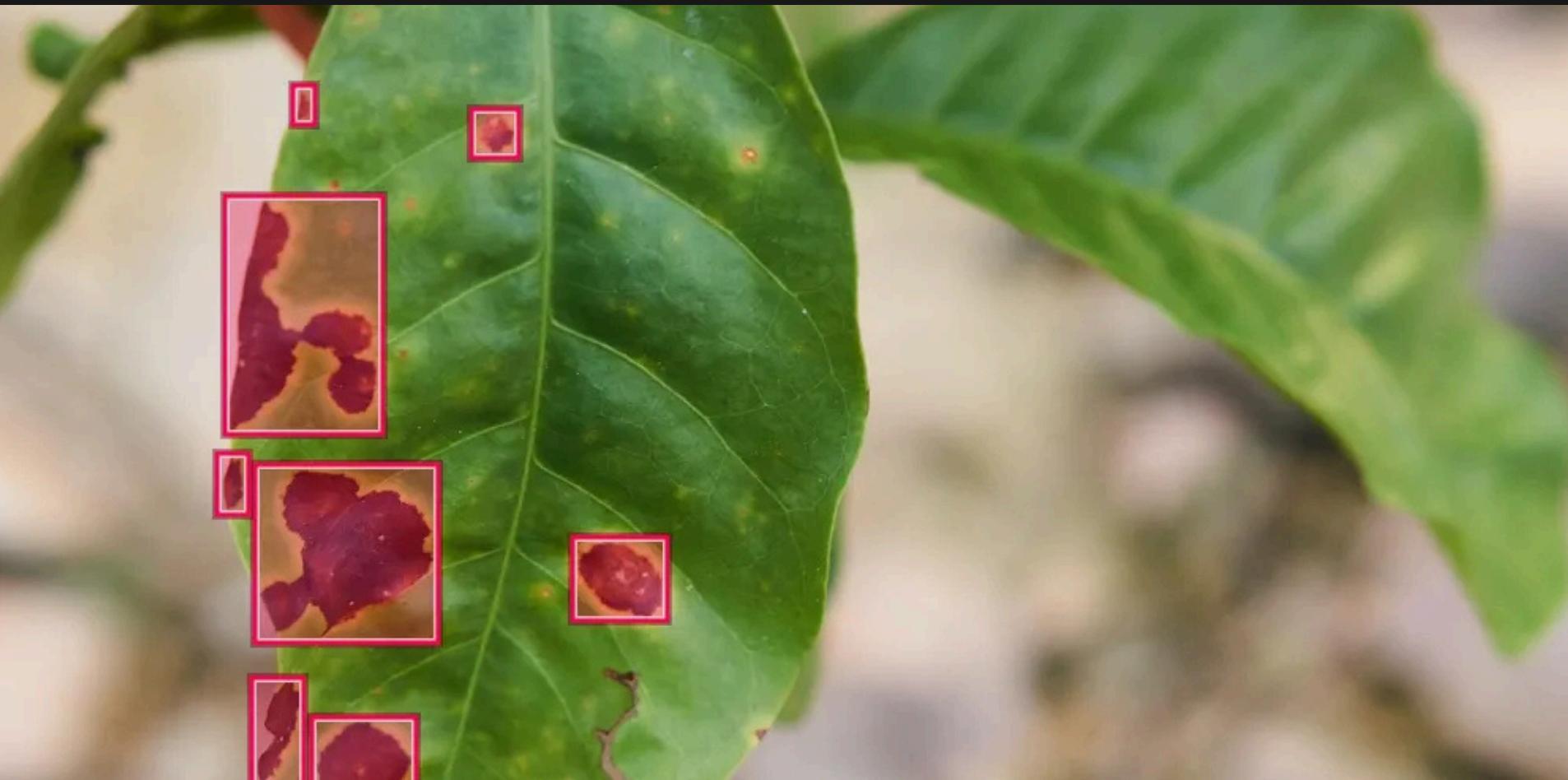
# Computer Vision in Agriculture

01



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# Crop Stress Plant Disease



Agriculture has always been heavily reliant on accurate monitoring to detect diseases early, ensuring optimal yields and the maintenance of good crop health. However, traditional methods of manual inspection are time-consuming, prone to errors, and often result in a delayed response to disease outbreaks.



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# Crop Monitoring with Drones

Due to their capabilities to fly and cover large distances, drones capture large amounts of data with built-in cameras and provide footage to help you map and plan crop yields and insights based on geo-sensing information.



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# Laser Weeding Technology

Computer Vision can be used to locate and identify weed plants, and mirrors can be used to direct a laser beam towards the target to kill it with heat. Unlike chemical and mechanical weed control, laser weeding only exposes a tiny part of the field for treatment.



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# Vegetable Grading and Sorting

The applications will inspect fruits and vegetables, study their size, colour, volume, and shape, and automatically sort and grade them without errors.



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# Livestock Management

Cameras equipped with computer vision algorithms can detect changes in animal movement patterns, feeding habits, or physical appearance that might indicate health issues.



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# Automated Harvesting



Harvesting crops is a labor-intensive task and securing staff during peak harvest seasons can be a challenge, leading to delays and increased costs. Automated harvesting systems, powered by computer vision technology, can save time, reduce costs, and improve overall productivity.



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# Pesticide spraying with drones

Leveraging drones for pesticide spraying transforms crop protection by combining speed, precision, and safety, greatly reducing the risks and inefficiencies associated with manual application.



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# Autonomous Farming



Self-driving tractors use computer vision for navigation and obstacle avoidance. Robotic systems for tasks like pruning and harvesting rely on computer vision to identify ripe produce and determine optimal cutting points.



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# Ready to build your custom Computer Vision solution?



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