UAV-captured images of cacao pods

datasets for training (healthy vs. infected pods)

GPS metadata for geotagging detection results

Input

Preprocessing of UAV images for consistency

Running images through the YOLO model for disease detection and classification

Integration of geo-tagged data for spatial analysis and mapping

Process

Classification of cacao pods as healthy or infected

GPS-based maps showing infection locations

Summary reports (number of pods detected, infection rate, time, and location)

Output