FirstStep.ai

Aerial Image Analysis

Case Study: Enveritas

MANGROVE TREE

FIRSTSTEP.AI APPLICATIONS

- FirstStep.ai Designer
- TF Model Export
- Google Cloud Servers
- Maps API (Google)

"FirstStep.ai offers an easy tool for organizations that want to improve their machine learning workflows.

It surfaces insights quickly and helps you be more selective about the AI projects you take on."

Carl Cervone
(COO)

Making AI accessible to all staff

Problem Statement:

Enveritas was looking to automatically count mangrove trees planted in a specific region in Myanmar, using satellite imagery.

Pain Points:

Mangrove trees are primarily located in coastal and hard-to reach areas. Manual counting is a onerous, manpower-heavy task, often done using physical measurement tapes to capture the tree height and width, from a sample of trees. This process allows for human error and judgement bias.

FirstStep.ai Solution:

The FirstStep.ai Aerial Image Analysis tool:

- Accepts a KML file as an input to create a search grid
- Retrieves RGB satellite images via Maps API (e.g. Google Maps)
- Counts trees using HSV spectral analysis, and AI object detection
- Saves time compared to manually capturing data
- Improves accuracy of results by avoiding sampling
- Eliminates human error

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