



Perception

Data accumulates faster than
humans can process



Large scale automation





Mentors: Ron Fitzgerald and Ron Scrofano

Issue: Want to track target objects in video

What We Tackled

Given: Target Image, Video Recording

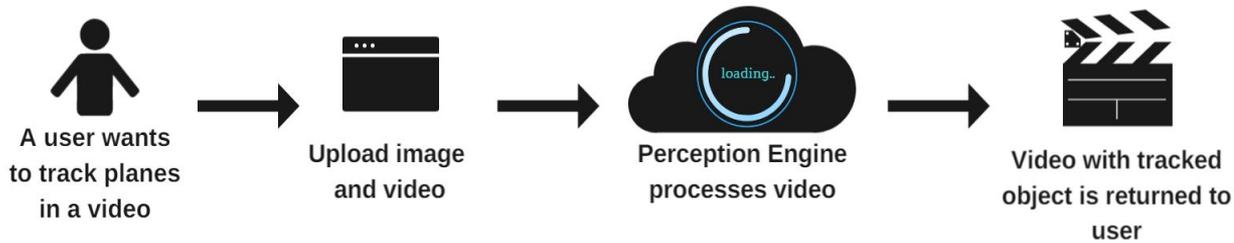
We Return: Object Tracked in Video



Product Overview

Two Components:

- × Object Tracking API
- × Web App

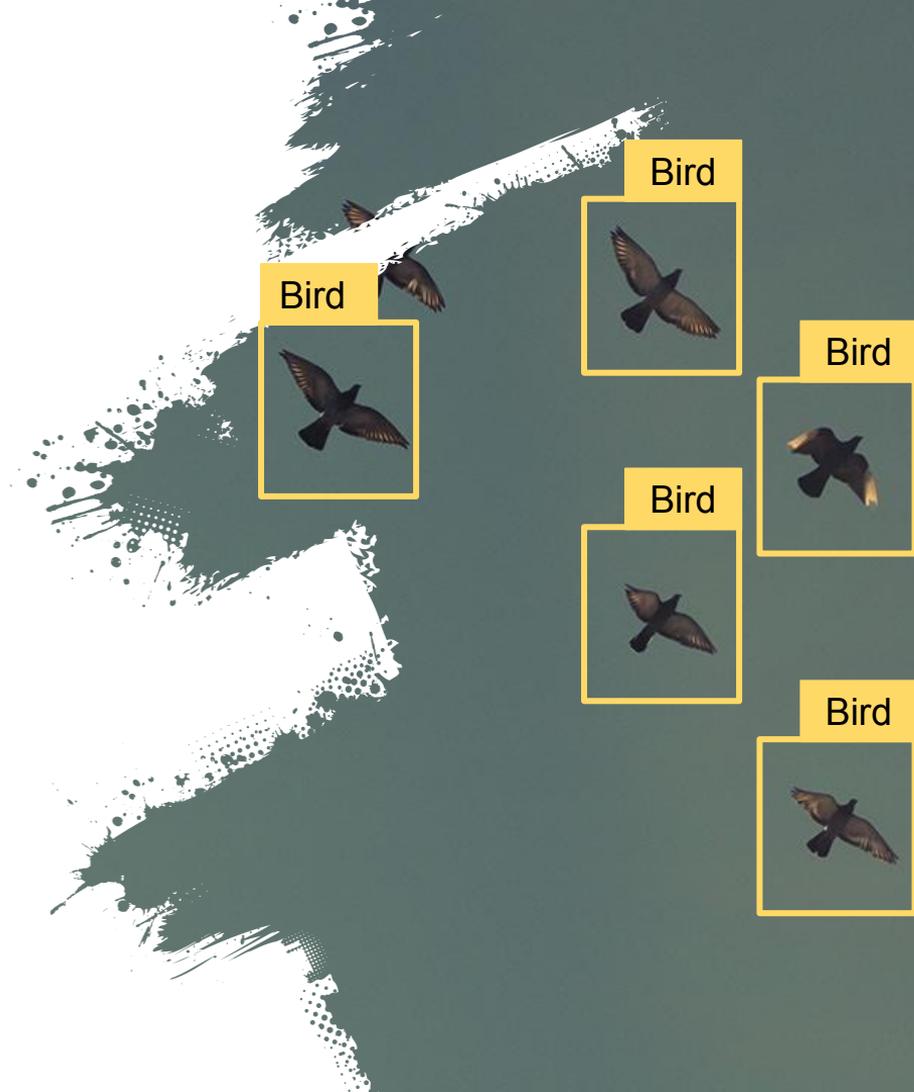


Use Cases

- × Military Applications
- × Surveillance
- × Consumer Sports



Demo



Product Features

- × Seamless User Interface
- × Accuracy in Desired Object Detection
- × Scalability



User Flow

- × **Guest:** Can 'Try it Out' if non-registered user
- × **Recurring User:** Allows users to login to their own dashboard
- × **User Features:** Dashboard lays out user's uploaded media.



Dashboard

- × **Dashboard:** User's central hub of media management
- × **My Files:** Previously uploaded videos and images
- × **Saved Trackings:** Save Perception engine outputs



Modified YOLO

Vanilla



Modified



Future Goals

- × Siamese Neural Network
- × Statistics
- × Live Time Tracking



A scenic landscape featuring a range of mountains under a warm, orange and yellow sunset sky. In the foreground, a town with white buildings is visible, nestled in a valley. The entire scene is framed by a rough, hand-drawn border in a dark brown color, with some splatters and a textured appearance. The text "Thank You" is centered in the middle of the image in a large, white, sans-serif font.

Thank You

The Team - Aerospace



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Ben Patient



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