MICHIGAN STATE UNIVERSITY

Alpha Presentation Habitat Identification Using Drone Imaging

The Capstone Experience

Team GM

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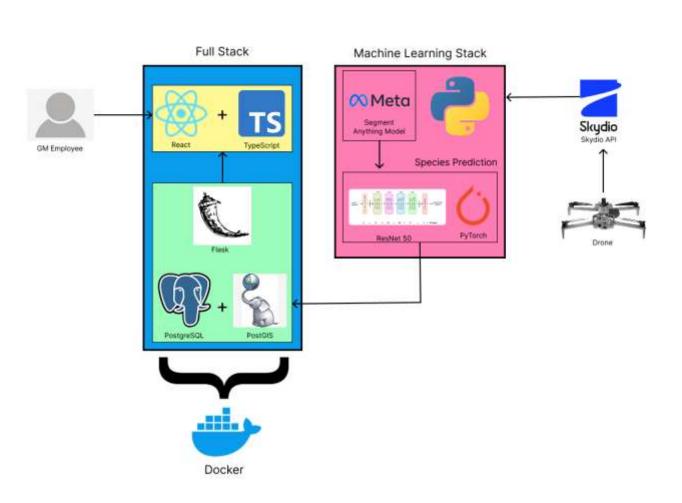


Project Overview

- Near every GM facility is an extensive natural habitat with rich biodiversity
- Manual species monitoring across these areas is time-intensive and impractical
- Given drone imagery, the software will identify and log the different plant species present
- Enables GM to efficiently track the biodiversity and support environmental conservation efforts

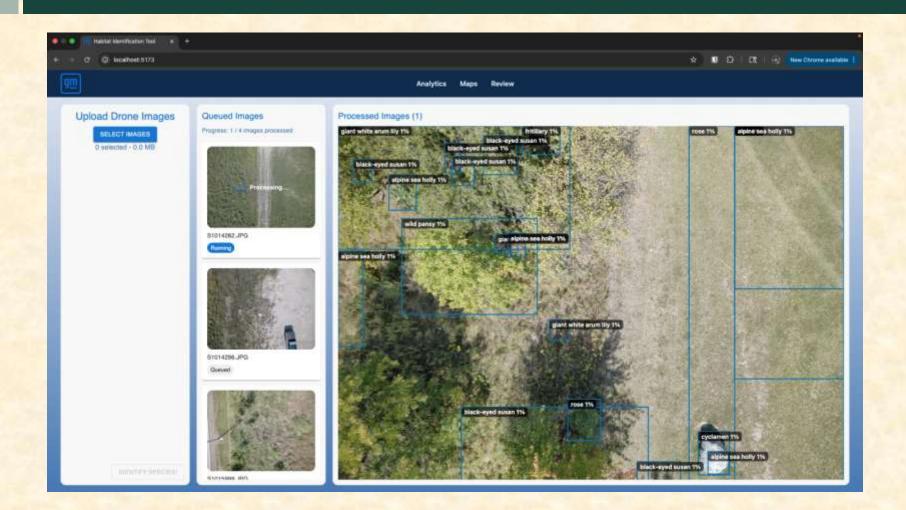


System Architecture



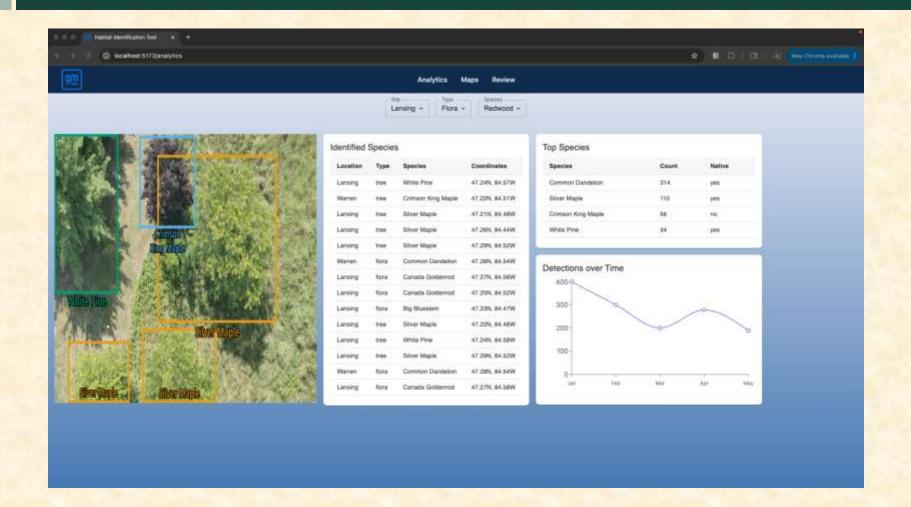


Main Page

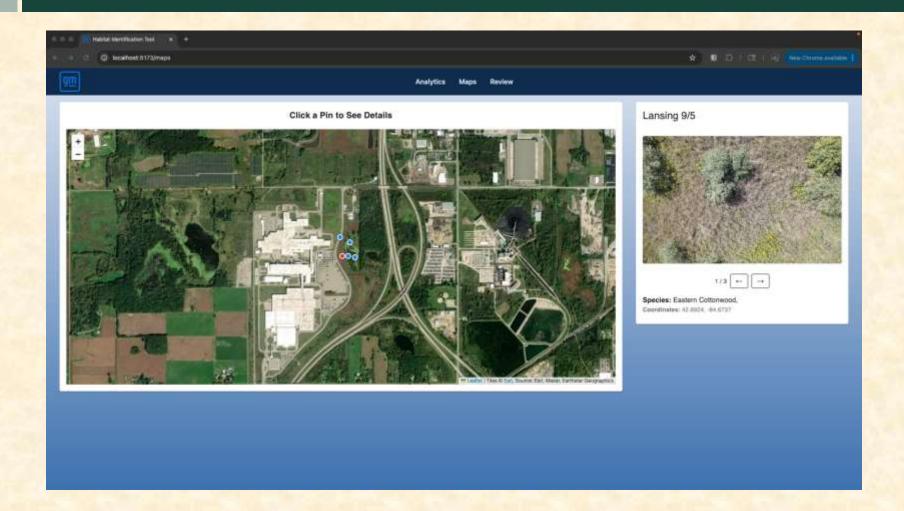




Analytics Page

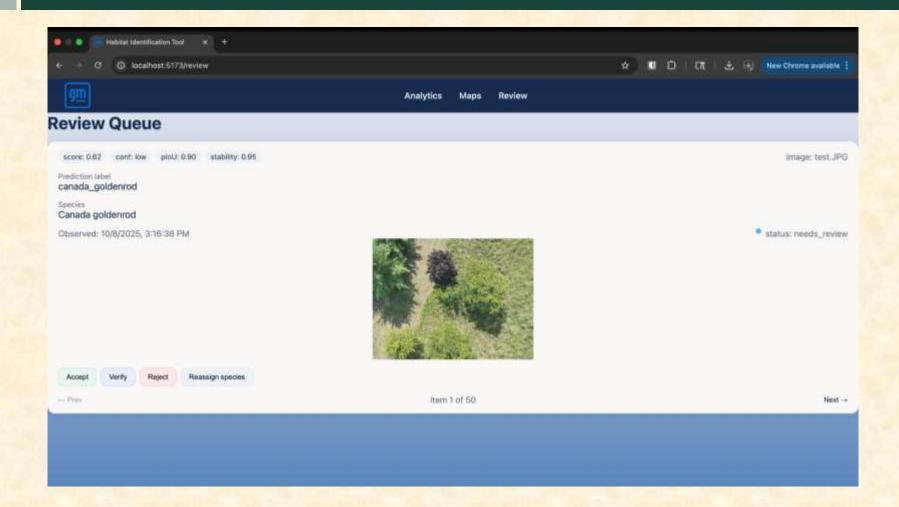


Map Page





Review Page





What's left to do?

- Continue to train the model and increase the accuracy
- Implement feedback loop from the review page
- Create orthomosaic image of the habitat
- Add metadata of plant species

Questions?

