Alexander Pavicic

Capstone Project

Review

Reviewer: James Finkelstein

Reviewee: Alexander Pavicic (Birdman Project)

Testing:

Basic run through/demo of available code + Setup: ~20 minutes

Discussion about future plans, hardware, and upcoming changes: ~ 25 minutes

Summary

Bird vs Non-Bird detection seems implemented, but Finch vs Non-Finch is not yet fully implemented. That seems to be the next main step, parallel (?) with implementing a GUI. The detection that’s present seems to be working quite well with the videos used, so I hope it would go smoothly for the refinement.

The GUI should be pretty easy with the library I passed over (customtkinter) and I don’t think too much is required. There are a lot of possible customizations that could be made with a simple GUI, but I’d need a deeper understanding of the code to see what would work best.

I understand why it's not implemented yet (if it is even within reach this semester) but changing output to a spreadsheet/excel file would be incredibly useful (and IIRC was one of the goals). Video/Frame output is still good, but that can take up storage really fast.

I think there’s a lot of potential here, and there’s good progress so far. I think aims may be a little up in the air, mostly in terms of reachability, but there’s plenty of ideas. The next objective, the GUI should be very easy to implement, assuming the base code isn’t too complex.