

## Review of: "Tweeting AI: A Machine Learning Approach for Bird Species Detection and Classification"

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Potential competing interests: No potential competing interests to declare.

This is a useful study as it addresses a real world problem (i.e endangered bird species).

## Pros

- 1. The research problem is clear.
- 2. The approach utilized for detection and classification is a good fit for the problem.
- 3. If successful, the same framework can be useful for the preservation efforts of other endangered species (i.e besides birds), using audiovisual data.

## Cons

- A lot of unnecessary background details are provided in the different sections of the manuscript. Example: CNNs have been used extensively in literature, and therefore the detailed descriptions of how they work is not necessary. The same for the working mechanism of YOLO.
- 2. Rather than providing a lot of screenshots of the model training and testing process, provide the logical flow of the same using a standard scientific presentation format (e.g an algorithm, flow chart, etc.).
- The results of the implementation exercise could be presented better Not simply screenshots of objection detection from a live program.
- 4. It is claimed on page 34 that, "We analyze the performance of our proposed approach and compare it with existing methods in the literature". This has actually not be done, yet a crucial step in validating the approach proposed in this work.
- 5. Overall, the presentation format of the manuscript needs thorough improvement, to allow for a coherent and logical flow.

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