**NAME:** AI Species Classification

**DATE:** May 1, 2025 3:18 PM

**DESCRIPTION OF TECHNOLOGY**
The technology is a machine learning model that identifies species of amphibians and insects, providing information on their characteristics and danger to humans. Realistic expectations involve accurate identification based on training. The technology solves the problem by analyzing images and using pattern recognition. Effectiveness comes from comprehensive data, testing, and expert validation. It…

## HUMAN VALUES

The technology enhances the identity of users by providing them with knowledge and awareness about different species of amphibians and insects. It promotes a sense of environmental stewardship and connection to nature, shaping the user's identity as environmentally conscious individuals.

## TRANSPARENCY

Transparency is important in technology. Users should easily find information about how the technology works, understand why it behaves in a certain way, and have clear explanations of its goals and business model. Transparent communication builds trust and empowers users to make informed decisions.

## IMPACT ON SOCIETY

The technology aims to solve the problem of accurately identifying species of amphibians and insects and understanding their potential dangers. By addressing this problem, it can improve conservation, research, public safety, education, and inclusivity, making a positive impact on the world.

## STAKEHOLDERS

- Intended User
- Researchers and Experts

## SUSTAINABILITY

## HATEFUL AND CRIMINAL ACTORS

In the wrong hands, the technology could be misused to identify and track individuals for purposes of harassment, stalking, or intimidation, which is illegal and harmful.

Bad actors could exploit the technology to create false identities or forge documents by manipulating species identification data, potentially facilitating fraud or identity theft.

## DATA

The technology takes into account the fundamental shortcomings and pitfalls of data. Measures are in place to address subjectivity, incompleteness, biases, and the complexity of reality. Continuous learning and understanding are prioritized to improve the technology's approach to data and enhance its effectiveness.

## FUTURE

The widespread use of the technology by 100 million people can lead to increased awareness, behavioral changes, and a shift in societal norms towards biodiversity conservation. It can foster collaborative communities and encourage responsible behaviors. However, challenges such as equitable access and addressing privacy concerns need to be considered.

## PRIVACY

The technology itself does not register personal data. However, personal data may indirectly be associated with the technology if users voluntarily provide personal information or if the app collects location data. It is important to handle personal data in compliance with privacy laws, ensuring informed consent and data security.

## INCLUSIVITY

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## HUMAN VALUES

**How is the identity of the (intended) users affected by the technology?**

To help you answer this question think about sub questions like:

- If two friends use your product, how could it enhance or detract from their relationship?
- Does your product create new ways for people to interact?…

## TRANSPARENCY

**Is it explained to the users/stakeholders how the technology works and how the business model works?**

- Is it easy for users to find out how the technology works?
- Can a user understand or find out why your technology behaves in a certain way?
- Are the goals explained?
- Is the idea of the technology explained?
- Is the technology company transparent about the way their…

## IMPACT ON SOCIETY

**What is exactly the problem? Is it really a problem? Are you sure?**

Can you exactly define what the challenge is? What problem (what 'pain') does this technology want to solve? Can you make a clear definition of the problem? What 'pain' does this technology want to ease? Whose pain? Is it really a problem? For who? Will solving the problem make the world better? Are you sure? The problem definition will help you to determine…

## STAKEHOLDERS

**Who are the main users/targetgroups/stakeholders for this technology? Think about the intended context by…**

When thinking about the stakeholders, the most obvious one are of course the intended users, so start there. Next, list the stakeholders that are directly affected. Listing the users and directly affected stakeholders also gives an impression of the intended context of the technology.

…

## SUSTAINABILITY

**In what way is the direct and indirect energy use of this technology taken into account?**

One of the most prominent impacts on sustainability is energy efficiency. Consider what service you want this technology to provide and how this could be achieved with a minimal use of energy. Are improvements possible?

## HATEFUL AND CRIMINAL ACTORS

**In which way can the technology be used to break the law or avoid the consequences of breaking the law?**

Can you imagine ways that the technology can or will be used to break the law? Think about invading someone's privacy. Spying. Hurting people. Harassment. Steal things. Fraud/ identity theft and so on. Or will people use the technology to avoid facing the consequences of breaking the law (using trackers to evade speed radars or using bitcoins to launder…

## DATA

**Are you familiar with the fundamental shortcomings and pitfalls of data and do you take this sufficiently into…**

There are fundamental issues with data. For example:

- Data is always subjective;
- Data collections are never complete;
- Correlation and causation are tricky concepts;
- Data collections are often biased;…

## FUTURE

**What could possibly happen with this technology in the future?**

Discuss this quickly and note your first thoughts here. Think about what happens when 100 million people use your product. How could communities, habits and norms change?

## PRIVACY

**Does the technology register personal data? If yes, what personal data?**

If this technology registers personal data you have to be aware of privacy legislation and the concept of privacy. Think hard about this question. Remember: personal data can be interpreted in a broad way. Maybe this technology does not collect personal data, but can be used to assemble personal data. If the technology collects special personal data (like…

## INCLUSIVITY

**Does this technology have a built-in bias?**

Do a brainstorm. Can you find a built-in bias in this technology? Maybe because of the way the data was collected, either by personal bias, historical bias, political bias or a lack of diversity in the people responsible for the design of the technology? How do you know this is not the case? Be critical. Be aware of your own biases.…

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