



NAME: AI Species Classification

DATE: May 1, 2025 1:45 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...



IMPACT ON SOCIETY



To improve the impact of this technology:

1. Make it more accurate and fair.


2. Collaborate with diverse groups for better data.

3. Include local knowledge and fill data gaps.

4. Promote responsible use and involve human experts.

5. Ensure privacy and follow ethical guidelines.

HATEFUL AND CRIMINAL ACTORS




To mitigate risks:

1. Enhance technology: Improve security, address biases, and prioritize ethical design.

2. Contextual measures: Support regulations, raise awareness, and collaborate with experts.

3. Promote responsible use: Verify users, establish reporting systems, and continually evaluate and enhance the technology.

PRIVACY



- Minimize data collection to only essential information.

- Incorporate privacy by design principles from the start.

- Enhance consent and transparency for data usage.


- Implement robust security measures to protect personal data.

- Empower users with control over their data and rights.

- Educate and raise awareness about privacy risks.


- Ensure compliance with privacy laws and regulations.

HUMAN VALUES




Implement features that allow users to customize the information and alerts provided by the technology, giving them more control over their interactions and choices. Incorporate educational components within the technology to raise awareness about the importance of biodiversity conservation and promote responsible interactions with the natural environment.

STAKEHOLDERS



Provide education and awareness.
Engage stakeholders for input and consultation.
Ensure compliance with privacy and data protection regulations.
Continuously evaluate and improve.

DATA




Improvements can be made in the technology by enhancing data quality, implementing robust data governance, facilitating continuous learning and adaptation, and empowering users in the data process. These measures contribute to better data utilization and responsible use of the technology.

INCLUSIVITY




TRANSPARENCY




Enhancements can be made in technology, context, and use to improve transparency. This includes providing clear explanations of how the technology works, communicating potential negative effects, and implementing effective complaint procedures.

SUSTAINABILITY





FUTURE



Enhance accessibility: Ensure that the app is accessible to a wider range of users, including those with disabilities or limited technological access.
Expand species coverage: Continuously improve the app's ability to identify and provide information on a broader range of amphibians and insects, including rare and endangered species.

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IMPACT ON SOCIETY

Now that you have thought hard about the impact of this technology on society (by filling out the questions...


If you think about the real problem this technology is going to solve. If you think about the ability of this technology to solve the real problem. If you think about possible negative effects and whether this technology will contribute to a world you want to live in. If you think about all that, what improvements would you make? In technology? In context? In use?...



HATEFUL AND CRIMINAL ACTORS

Now that you have thought hard about how bad actors can impact this technology, what improvements would...


If you think about this technology being used to break the law, or avoid the consequences of breaking the law, or to be used against certain groups, or to attack the truth or to pit certain groups against each other. If you think about all of that, what improvements would you (want to) make? In the technology? In context? In use?...



PRIVACY

Now that you have thought hard about privacy and data protection, what improvements would you like to make?...


If you think about this technology invading someone's privacy or collecting personal data and if you think about the way this technology is compliant with prevailing law and mitigates dataprotection risks and concerns. If you think about all that, what improvements would you (want to) make? In the technology? In context? In use?...



HUMAN VALUES

Now that you have thought hard about the impact of your technology on human values, what improvements...


If you think about the impact of this technology on human values and needs. If you think about how this technology affects the identity of the user, the autonomy of the user (can the users make their own decisions?) and the health and well-being of the user. If you think about all that, what improvement would you (want to) make? In the technology?...



STAKEHOLDERS

Now that you have thought hard about all stakeholders, what improvements would you like to make? List them...


If you think about all stakeholders of this technology. If you think about stakeholders that are less obvious. If you think about the way certain stakeholders are affected by this technology and if you want to take them into consideration. If you think about all that, what would you (want to) improve? In the technology? In context? In use?...



DATA

Now that you have thought hard about the impact of data on this technology, what improvements would you...


If you think about the limitations of data. Things like subjectivity, incomplete datasets and so on. If you think about the way new insights are handled. If you think about the sustainability of the collection of data or the data that is collected from the users. If you think about all that, what would you (want to) improve? In the technology? In context?...



INCLUSIVITY

Now that you have thought hard about the inclusivity of the technology, what improvements would you like to...


If you think about accessibility to this technology. If you think about built in biases or automatic decisions that may be biased. If you think about who is benefitting from this technology and the diversity of the team that creates the technology. If you think about all that, what improvements would you (want to) make? In the technology? In context? In use?



TRANSPARENCY

Now that you have thought hard about the transparency of this technology, what improvements would you like t...


If you think about the communication on the way the technology works and the businessmodel. If you think about the explanation on automatic decisions that are made. If you think about complaint procedures and transparency on possible negative effects. If you think about all that, what would you (want to) improve? In the technology? In context?...



SUSTAINABILITY

Now that you have thought hard about the sustainability of this technology, what improvements would you like t...


If you think about the direct and indirect energy use and the materials that are used in the technology. If you think about the lifespan of the technology and the hidden environmental impact of the technology. If you think about all that, what improvements would you (want to) make? In the technology? In context? In use?...



FUTURE

Impact Improvement: Now that you have thought hard about the future impact of the technology, what...

If you think about an utopian and a dystopian scenario. If you think about the way this technology can change the world. If you think about the consequences of a different party buying your technology. If you think about all that, what would you (want to) improve? In the technology? In context? In use? ...



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