


IMPROVEMENTSCAN - CANVAS Feedback mechanisms for image quality


NAME: Feedback mechanisms for image quality 

DATE: May 15, 2026 1:31 AM

DESCRIPTION OF TECHNOLOGY
 I am developing a prototype web application to test various feedback mechanisms on users. The goal is to guide them to take better, more useful photos for fossil identification. To validate the results, there will be a baseline prototype and two more to test feedback mechanisms. The images taken by testers are collected and then compared based on five metrics. Sharpness, lighting, contrast, number of angles and...

HUMAN VALUES 


TRANSPARENCY 

IMPACT ON SOCIETY 


Based on my reflections on the problem, its impact, and potential negative effects, I would make the following improvements to the technology:

1. Improve data quality and reduce bias:


- Incorporate multi-expert validation for quality metrics to reduce individual bias.
- Develop AI modules to assess more quality metrics, like...

STAKEHOLDERS 


I would improve the technology by making it more inclusive and accessible to all users, including those with older devices or limited technical experience. For fossil hunters, I would refine the real-time feedback to be clearer and less distracting, using icons or simple visual cues. For paleontologists, I would add multi-expert validation and quality checks to reduce bias and ensure high-value tasks are prioritized. For AI developers, I would provide standardized, high-quality datasets with complete metadata to improve...


SUSTAINABILITY 


Backend server costs have already been eliminated
 The final application will run offline on the user's device, so no additional server cost.
 AI will be designed to be resource-efficient, so as not to drain the user's phone battery.


HATEFUL AND CRIMINAL ACTORS 

To reduce risks from bad actors, I would add verification for submissions to prevent fake or misleading data. I would limit the exposure of sensitive information. I would make AI guidance and outputs transparent. Community interactions should be monitored and moderated. The system should be designed to make it hard to manipulate results or misrepresent findings. Clear instructions and user education would help. Multi-expert validation and audit logs would further protect the technology from abuse.

DATA 

FUTURE 

PRIVACY 


INCLUSIVITY 

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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?...

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?...

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?...

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?...

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?...

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?...

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?...

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? ...

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?...

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?...

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