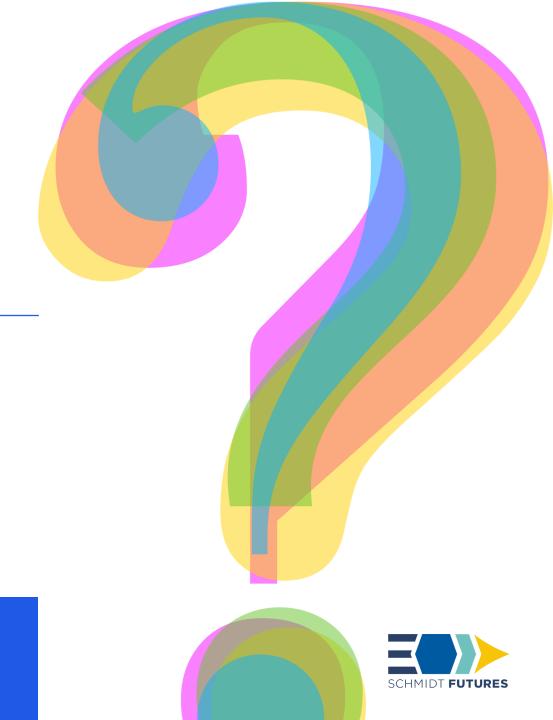
Data Ethics





Your challenges around Al and data

What are some of your challenges around using Al models and data...?





General Challenges of Ethics in Al

Traditional research ethics may not be well suited to Al applications

• Research Ethics Committees typically deal with biomedical, and human subject oriented research. The relationship between researchers and subjects is different to the relationship between researchers and data.

The changing landscape of AI

• The rapidly shifting landscape of AI/ML is challenging to keep up with. We run the risk of not being able to adapt ethical frameworks quickly enough.

Multi-site and multi-organization collaborations

- A significant amount of research now involves collaborations between multiple research groups and potentially with private organization. This can lead to conflicting standards of ethical review.
- Reliance on external private organization (e.g. for compute resources) exposes you to ethical risk.





General guidelines

Do No Harm

Try not go beyond what is necessary to achieve a specific aim. Risk assessment should be used to prevent harms.

Safety and Security

Vulnerabilities to attack should be addressed.

Privacy and protection

Privacy must be protected throughout, and adequate data protection frameworks should be established.

Accountability

All systems should be auditable and traceable.

Transparency and explainability

• The level of transparency and explainability should be appropriate so as not to conflict with privacy and safety.

Human-in-the-loop

Al systems should never replace human responsibility and accountability.

Sustainability

Assess the impact of your research on the environment.

Awareness

• Public understanding of Al and data should be promoted wherever possible

Fairness

• Research should promote social justice, fairness, non-discrimination, and inclusivity.





Resources

The dangers of using proprietary LLMs for research
Framework for responsible research and innovation
UNESCO Ethics of Artificial Intelligence



