

DESCRIPTION

Best practices for AI, data ethics, and privacy prioritize responsible data management and algorithmic fairness. This involves implementing 'privacy-by-design' principles, ensuring data minimization, robust anonymization, and obtaining informed consent for data collection and use. Organizations must actively work to identify and mitigate biases within training datasets and algorithms to prevent discriminatory outcomes, as advocated by frameworks like the NIST AI Risk Management Framework. Furthermore, adherence to comprehensive data protection regulations such as GDPR is non-negotiable, alongside transparent data governance and strong accountability mechanisms for AI systems to safeguard individual rights and foster public trust.

IDEAL SCENARIO

All personally identifiable information (PII) of individuals (e.g., names, contact details) is consistently anonymized or removed (redacted) before data is shared or stored in the ENIGMA platform. This ensures privacy for all people involved and handling of data ethically.



Figure: <https://pixabay.com/photos/ai-ethics-ai-bias-reduction-8296760/>

TIPS

Do

- Consider the ethical implications regarding data security, bias and ensure legal compliance.
- Follow GDPR for all data entries in ENIGMA.
- Ensure transparency regarding the data's intended use.

Don't

- Don't treat objects inputs as publicly available and respect privacy.
- Don't share raw evidence files that contain unredacted PII.

FURTHER RESOURCES

- IEEE Ethically Aligned Design (EAD): A comprehensive framework for autonomous and intelligent systems, developed through global consensus. https://standards.ieee.org/wp-content/uploads/import/documents/other/ead_v2.pdf
- NIST AI Risk Management Framework. <https://nvlpubs.nist.gov/nistpubs/ai/NIST.AI.100-1.pdf>
- Kate Crawford, *Atlas of AI: Power, Politics, and the Planetary Costs of Artificial Intelligence* (2021)
- Michael Kearns & Aaron Roth, *The Ethical Algorithm: The Science of Socially Aware Algorithm Design* (2019)
- IBM AI Fairness 360: An open-source toolkit that helps detect and mitigate bias in machine learning models. <https://research.ibm.com/blog/ai-fairness-360>