

Ethical Impact Assessment Checklist

1. Data Privacy and Security

Objective: Ensure that data used and generated by the AI system is handled securely and respects user privacy.

Checklist Item	Completed	Notes
Data Collection:		
- <input type="checkbox"/> What types of data are being collected?		
- <input type="checkbox"/> Is data collection necessary and minimized to what is required?		
- <input type="checkbox"/> Have you obtained informed consent from data subjects?		
Data Storage:		
- <input type="checkbox"/> How is data stored and protected against unauthorized access?		
- <input type="checkbox"/> Are encryption and other security measures implemented?		
Data Usage:		
- <input type="checkbox"/> How is the data being used within the AI system?		
- <input type="checkbox"/> Are there policies for data retention and deletion?		
Compliance:		
- <input type="checkbox"/> Does data handling comply with relevant data protection laws (e.g., GDPR, CCPA)?		
- <input type="checkbox"/> Have data protection impact assessments (DPIAs) been conducted?		
Anonymization:		
- <input type="checkbox"/> Is personal data anonymized or pseudonymized where possible?		
- <input type="checkbox"/> Are there safeguards against re-identification?		

2. Fairness and Bias

Objective: Prevent and mitigate biases in AI systems to ensure equitable treatment of all users and stakeholders.

Checklist Item	Completed	Notes
Data Bias:		
- <input type="checkbox"/> Is the training data representative of diverse populations?		
- <input type="checkbox"/> Have you identified and addressed potential biases in the dataset?		
Algorithmic Fairness:		
- <input type="checkbox"/> Are fairness metrics defined and measured (e.g., demographic parity, equal opportunity)?		
- <input type="checkbox"/> Have you tested the AI system for disparate impact across different groups?		
Decision-Making:		
- <input type="checkbox"/> Does the AI system make decisions that could disproportionately affect certain groups?		
- <input type="checkbox"/> Are there mechanisms to correct biased outcomes?		
Inclusive Design:		
- <input type="checkbox"/> Were diverse perspectives considered during the design and development phases?		

Checklist Item	Completed	Notes
- [] Is there ongoing monitoring to detect and address emerging biases?		

3. Transparency and Explainability

Objective: Ensure that AI systems are understandable and that their decision-making processes are transparent to users and stakeholders.

Checklist Item	Completed	Notes
Model Transparency:		
- [] Is the AI model architecture documented and accessible?		
- [] Are the data sources and preprocessing steps clearly described?		
Explainability:		
- [] Can the AI system provide explanations for its decisions in understandable terms?		
- [] Are there tools or methods in place to generate explanations (e.g., LIME, SHAP)?		
User Communication:		
- [] Are users informed when they are interacting with an AI system?		
- [] Is there clear documentation on how the AI system works and its intended use?		
Transparency Reporting:		
- [] Have you published transparency reports detailing the AI system's performance and limitations?		
- [] Are audit trails maintained for decision-making processes?		

4. Accountability

Objective: Establish clear lines of responsibility and mechanisms for accountability in the deployment and operation of AI systems.

Checklist Item	Completed	Notes
Responsibility Assignment:		
- [] Who is responsible for the development, deployment, and maintenance of the AI system?		
- [] Are roles and responsibilities clearly defined within the team?		
Governance Framework:		
- [] Is there an ethical governance framework in place for overseeing AI development?		
- [] Are there policies for addressing ethical breaches or issues?		
Auditing and Monitoring:		
- [] Are regular audits conducted to assess compliance with ethical standards?		
- [] Is there continuous monitoring of the AI system's performance and impact?		
Liability and Redress:		
- [] Are there mechanisms for users to report issues or grievances related to the AI system?		
- [] Is there a process for addressing and rectifying identified problems?		

5. Human Control and Autonomy

Objective: Preserve human agency and ensure that AI systems augment rather than undermine human decision-making.

Checklist Item	Completed	Notes
Human Oversight:		
- [] Can humans intervene in the AI system's decision-making process?		
- [] Are there safeguards to prevent unauthorized automated actions?		
Autonomy Levels:		
- [] What level of autonomy does the AI system possess, and is it appropriate for its intended use?		
- [] Are users aware of the AI system's autonomy and limitations?		
User Empowerment:		
- [] Are users provided with options to override or modify AI-driven decisions?		
- [] Is there training or support to help users effectively interact with the AI system?		
Ethical Guidelines:		
- [] Does the AI system adhere to ethical guidelines that prioritize human well-being and autonomy?		
- [] Are there mechanisms to evaluate and enhance human-AI collaboration?		

6. Societal and Environmental Impact

Objective: Assess and mitigate the broader societal and environmental consequences of deploying AI systems.

Checklist Item	Completed	Notes
Social Impact:		
- [] How does the AI system affect different segments of society?		
- [] Are there potential impacts on employment, privacy, or social dynamics?		
Environmental Sustainability:		
- [] What is the environmental footprint of developing and operating the AI system?		
- [] Are there strategies to minimize energy consumption and resource use?		
Economic Considerations:		
- [] Does the AI system contribute to economic inequality or provide equitable benefits?		
- [] Are there measures to ensure fair distribution of AI-driven economic gains?		
Cultural Sensitivity:		
- [] Does the AI system respect and accommodate cultural differences and norms?		
- [] Are there assessments of potential cultural biases or insensitivities?		