

# AI Impact Identification Framework

Type: Framework

Target Audience: AI Ethics Teams, Risk Managers, Product Owners

This framework provides a comprehensive categorization system for identifying potential AI harms across multiple domains. Use during AI impact assessments to ensure all harm categories are considered.

## Assessment Information

Field	Details
AI System Name	
Assessment Date	
Assessor(s)	
Use Case Description	

## 1. Individual Impacts

Harms that affect specific persons directly.

Impact Category	Examples	Present?	Severity
Rights Violations	Privacy invasion, denial of due process, discrimination	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> C
Economic Harm	Job loss, credit denial, unfair pricing, financial fraud	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> C
Physical Harm	Injury from autonomous systems, medical misdiagnosis	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> C
Psychological Harm	Manipulation, addiction, anxiety, loss of autonomy	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> C
Reputational Harm	False accusations, defamation, deepfake victimization	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> C
Loss of Opportunity	Unfair hiring decisions, educational gatekeeping	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> C

## 2. Group Impacts

Harms that affect communities or demographic groups.

Impact Category	Examples	Present?	Severity
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<b>Discrimination</b>	Disparate impact on protected groups, proxy discrimination	[ ]Y [ ]N	[ ]L [ ]M [ ]H [ ]C
<b>Stereotype Reinforcement</b>	Biased representations, harmful associations	[ ]Y [ ]N	[ ]L [ ]M [ ]H [ ]C
<b>Cultural Harm</b>	Erasure, misrepresentation, appropriation	[ ]Y [ ]N	[ ]L [ ]M [ ]H [ ]C
<b>Digital Divide</b>	Exclusion of groups lacking technology access	[ ]Y [ ]N	[ ]L [ ]M [ ]H [ ]C
<b>Collective Surveillance</b>	Targeting of communities, chilling effects	[ ]Y [ ]N	[ ]L [ ]M [ ]H [ ]C

### 3. Societal Impacts

Harms that affect society at large.

Impact Category	Examples	Present?	Severity
Democracy Threats	Election manipulation, misinformation at scale, erosion of trust	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> C
Social Cohesion	Polarization, filter bubbles, breakdown of shared reality	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> C
Economic Inequality	Wealth concentration, labor displacement, market manipulation	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> C
Power Concentration	Monopolistic control, surveillance capitalism	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> C
Security Risks	Autonomous weapons, critical infrastructure vulnerabilities	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> C

### 4. Environmental Impacts

Harms to the natural environment.

Impact Category	Examples	Present?	Severity
Energy Consumption	Training compute, inference at scale, data center power	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> C
Carbon Footprint	CO2 emissions from compute and cooling	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> C
Water Usage	Data center cooling water consumption	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> C
E-Waste	Hardware obsolescence, disposal of AI chips	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> C

## 5. Risk Scoring Matrix

Calculate overall risk score using Likelihood × Severity for each identified impact.

### Likelihood Scale

Score	Likelihood	Description
1	Rare	Unlikely to occur (<10% probability)
2	Unlikely	Could occur occasionally (10-30%)
3	Possible	Might occur sometimes (30-60%)
4	Likely	Will probably occur (60-90%)
5	Almost Certain	Expected to occur (>90%)

### Severity Scale

Score	Severity	Description
1	Negligible	Minor inconvenience, easily remedied
2	Minor	Limited harm, short-term impact
3	Moderate	Significant harm, requires intervention
4	Major	Serious harm, difficult to reverse
5	Catastrophic	Severe/irreversible harm, rights violation

### Risk Matrix (Likelihood × Severity)

	Sev 1	Sev 2	Sev 3	Sev 4	Sev 5
Likelihood 5	5	10	15	20	25
Likelihood 4	4	8	12	16	20
Likelihood 3	3	6	9	12	15
Likelihood 2	2	4	6	8	10
Likelihood 1	1	2	3	4	5

- **1-4 (Green):** Low risk - Monitor | **5-9 (Yellow):** Medium risk - Mitigate
- **10-14 (Orange):** High risk - Significant controls | **15-25 (Red):** Critical - Avoid/transform