AI Ethical Risk Assessment Framework

A structured approach to evaluating and ranking AI-related risks.

1. Risk Evaluation Criteria

- **Severity:** How serious is the potential harm? (1-5)
- **Likelihood:** How probable is the harm occurring? (1-5)
- **Reversibility:** Can the damage be undone? (1=Permanent, 5=Easily Reversible)
- **Population Impact:** How many individuals are affected? (1-5)

2. Weighted Risk Score Formula

This formula ensures high-severity and irreversible risks are prioritized.

```
Risk Score = (Severity × 0.4) + (Likelihood × 0.3) + ((6 –
Reversibility) × 0.2) + (Population Impact × 0.1)
```

3. Risk Ranking Table

Risk Scenario	S	L	R	P	Score	Priority
Loss of Human Life	5	3	1	5	**4.4**	**Critical**
Systemic Bias / Discrimination	4	5	2	5	**4.4**	**Critical**
Trust Erosion	4	5	2	4	**4.3**	**Critical**
Legal / Regulatory Liability	3	3	4	3	**2.8**	**Medium**

4. Priority Interpretation

4.0 – 5.0	3.0 – 3.9	2.0 – 2.9	< 2.0
Critical	High	Medium	Low