

Practical 20

Understanding ethical dilemma using

I. Moral machine

II. Survival of the best fit

Introduction:

Ethical dilemmas are situations where there is a conflict between two moral principles, and choosing one often means compromising the other. In AI systems, such dilemmas arise when algorithms must make decisions affecting human lives, such as self-driving cars determining whom to save in an accident. Tools like *Moral Machine* and *Survival of the Best Fit* simulate these scenarios, enabling us to examine the principles guiding these decisions.

Tools Overview:

1. Moral Machine:

- An interactive platform developed by MIT that presents users with scenarios involving autonomous vehicles.
- Users decide who should be prioritized in life-and-death situations based on various factors like age, gender, social role, or lawfulness.
- Helps collect data on ethical preferences across cultures.

2. Survival of the Best Fit:

- A simulation or conceptual game where individuals face resource constraints, encouraging critical thinking about survival strategies and ethical choices.
 - Highlights the impact of competition, collaboration, and ethical decision-making on resource allocation and survival.
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Methodology:

1. Using Moral Machine:

- Visit the *Moral Machine* website.
- Engage in multiple decision-making scenarios involving ethical dilemmas.

- Analyze patterns in your choices and their justification (e.g., prioritizing young over old, lawful over unlawful).

2. Using Survival of the Best Fit:

- Simulate scenarios where resources are limited and participants must decide strategies for survival.
 - Examine how ethical principles (e.g., fairness, equity) influence decisions in competitive situations.
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Observations:

1. Moral Machine Results:

- Decisions often vary based on individual values, cultural norms, and personal biases.
- Common dilemmas include:
 - Saving more lives versus fewer lives.
 - Choosing between pedestrians and passengers.
 - Prioritizing law-abiding individuals over rule-breakers.

2. Survival of the Best Fit Insights:

- Emphasizes the importance of collaboration in resource-limited environments.
 - Ethical dilemmas arise when one individual's survival depends on sacrificing others' resources.
 - Highlights trade-offs between selfishness and collective welfare.
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Analysis:

- Ethical dilemmas in AI require balancing competing moral principles like utilitarianism (greatest good for the greatest number) and deontology (following rules or duties).
- Cultural and individual preferences significantly influence decisions, as demonstrated by *Moral Machine*.
- Resource constraints, as seen in *Survival of the Best Fit*, reflect real-world challenges like healthcare allocation or environmental sustainability.

Conclusion:

Understanding ethical dilemmas using *Moral Machine* and *Survival of the Best Fit* provides valuable insights into human decision-making and its implications for AI systems. These tools underscore the complexity of embedding ethical principles into algorithms and the need for culturally sensitive AI policies.

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