

# AI Ethics: Navigating the Moral Landscape

A critical exploration of artificial intelligence's ethical dimensions and societal implications. We'll examine how moral frameworks shape AI development and deployment.

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# AI's Societal Impact



## Employment

AI reshapes job markets.  
Automation replaces some roles.  
New positions emerge in AI development.



## Privacy

AI systems collect vast data.  
Questions arise about consent, ownership, and surveillance.



## Power Distribution

AI concentrates influence among tech giants. This raises concerns about democratic values.



AI Synergy



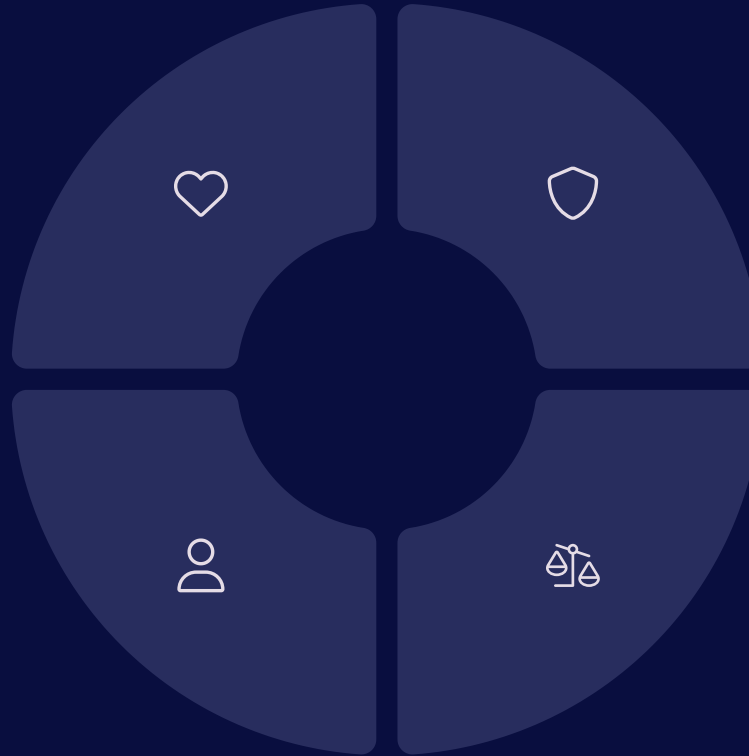
# Core Ethical Principles

## Beneficence

AI should actively promote human well-being. Systems must be designed to benefit humanity.

## Autonomy

AI should respect human freedom. People deserve control over AI systems.



## Non-maleficence

AI must avoid causing harm. Developers should anticipate negative consequences.

## Justice

AI must distribute benefits fairly. Systems should not perpetuate existing inequalities.

# Real-World Ethical Dilemmas

## Autonomous Vehicles

Who should an autonomous car prioritize in unavoidable accidents? The trolley problem becomes real-world ethics.

- Passenger vs. pedestrian safety
- Algorithmic life-or-death decisions

## Surveillance AI

Facial recognition systems balance security with privacy rights. Consent questions remain unresolved.

- Public space monitoring
- Potential for abuse

## Predictive Policing

AI-based crime prediction systems risk reinforcing biases. Historical data often contains discrimination patterns.

- Algorithmic bias
- Justice system impacts



# Human Morality's Influence on AI



## Values Encoding

Human designers embed their moral frameworks into AI systems. These values shape algorithm decisions.



## Programming Ethics

Developers translate abstract moral principles into code. This process requires careful consideration.



## Oversight Mechanisms

Human moral judgment guides AI evaluation standards. Ethical review boards assess AI applications.

# Moral Decision-Making in Machines

## The Debate

Can machines truly make moral decisions? Or do they simply execute programmed instructions?

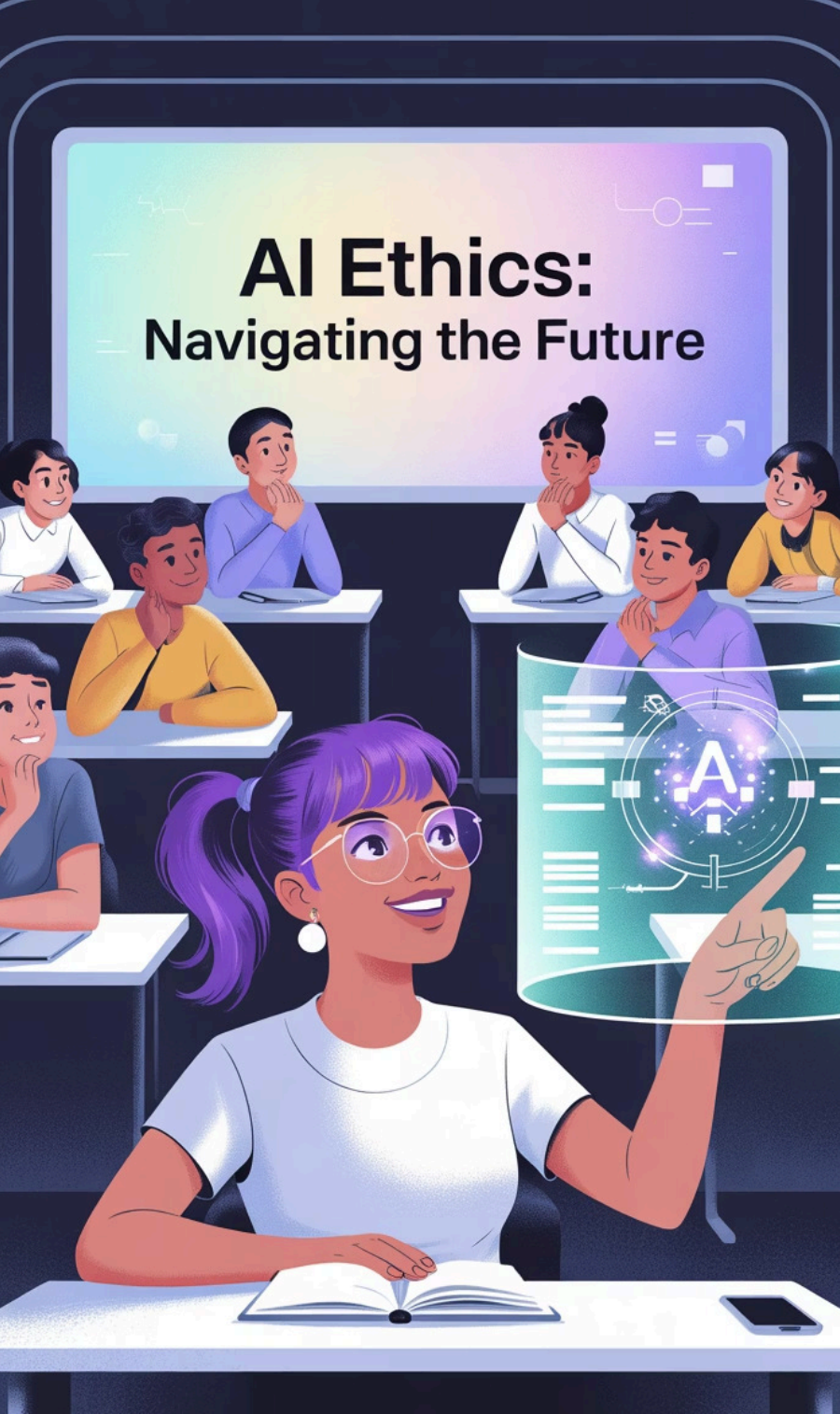
Machines lack moral agency but wield significant moral impact.

## Computational Morality

AI can process ethical frameworks but lacks moral understanding. Algorithms follow rules without comprehension.

## Moral Responsibility Gap

Who bears responsibility for AI decisions? The designer, user, or machine itself?



# Learning Objectives Assessment

1

## Identify Key Principles

Articulate the four core ethical principles governing AI development.

2

## Analyze Real Cases

Evaluate ethical dimensions of current AI applications in society.

3

## Debate Moral Agency

Develop arguments regarding machines' capacity for moral decision-making.

4

## Connect Human-Machine Ethics

Explain how human moral frameworks translate into AI design choices.

# innovation through collaboration



## Discussion Questions

### 1 Moral Agency

What qualities would an AI need to possess true moral agency?

### 2 Ethical Frameworks

Which ethical tradition best guides responsible AI development?

### 3 Responsibility Chain

How should we distribute responsibility for AI decisions?

### 4 Cultural Perspectives

How do different cultural values influence AI ethics globally?

Prepare your thoughts on these questions for our next class discussion.