

Ethical Considerations in Al

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Algorithmic Bias



Algorithmic Bias

- **1** Definition and Examples
 - Q1: Define algorithmic bias and provide two examples of how it manifests in AI systems.
- **2** Transparency vs Explainability
 - Q2: Explain the difference between transparency and explainability in AI. Why are both important?
- **3** GDPR Impact
 - Q3: How does GDPR (General Data Protection Regulation) impact AI development in the EU?

Ethical Principles Matching

Principles and Definitions

Match the following principles to their definitions:









A) Justice

B) Non-maleficence

C) Autonomy

D) Sustainability

Principle	Definition
A	Fair distribution of AI benefits and risks
В	Ensuring AI does not harm individuals or society.
С	Respecting users' right to control their data and decisions.
D	Designing AI to be environmentally friendly.

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Case Studies



Case 1: Biased Hiring Tool

Scenario

Amazon's AI recruiting tool penalized female candidates.

Case 1: Biased Hiring Tool

Tasks

Identify the source of bias (e.g., training data, model design).

Propose three fixes to make the tool fairer.

Suggest metrics to evaluate fairness post-correction.



Case 2: Facial Recognition in Policing

Scenario

A facial recognition system misidentifies minorities at higher rates.



Case 2: Facial Recognition in Policing

Tasks

Discuss ethical risks (e.g., wrongful arrests, privacy violations).

Recommend policies for responsible deployment.

Personal Reflection



Personal Reflection

Prompt

Reflect on a personal project (past or future). How will you ensure it adheres to ethical AI principles?

Policy Proposal

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Policy Proposal

Draft a 1-page guideline for ethical AI use in healthcare. Include:

- Patient consent protocols.
- Bias mitigation strategies.
- Transparency requirements.



Thank You