Al ethics: What's the buzz?

AI ETHICS



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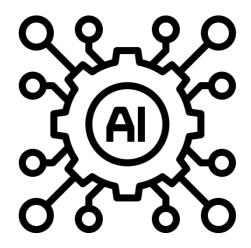
Intro to ethics

Al growth and the surge in public attention

Al ethics: A crucial discussion



The intersection of Al and ethics





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Al meets ethics

- Al revolutionizes various sectors:
 - Healthcare
 - Media
 - Insurance
- Examples
 - Al in healthcare improves surgical accuracy, early disease detection
 - Al in finance automates processing, fraud detection





¹ Icons made by Freepik, wanicon, Pixel perfect from www.flaticon.com

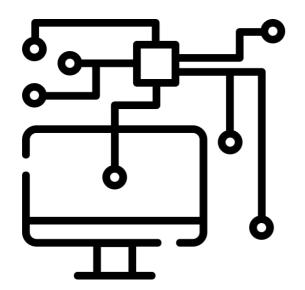
Why Al ethics?

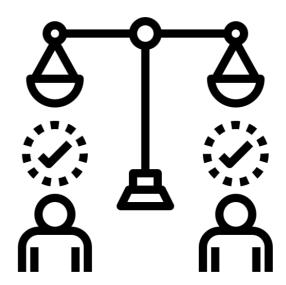
- Why AI ethics?
 - Risks of unchecked biases, illustrated by insurance claim denial scenario
- Human influence on Al
 - Biases seep into decision-making
- Wider impact
 - Legal professions, judiciary, public decision-making



Ethics in practice

- Aligning Al systems with ethical principles
- Example:
 - Fairness in insurance model
 - Equal treatment for all claims





- Guidelines in Insurance, Finance, and Banking sectors
- Ethical boundaries for fair, unbiased results
- The potential of ethically built Al

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The big picture

- Al ethics: Beyond avoiding harm or bias
- Importance of accountability: Who is responsible for Al's outcomes and construction?



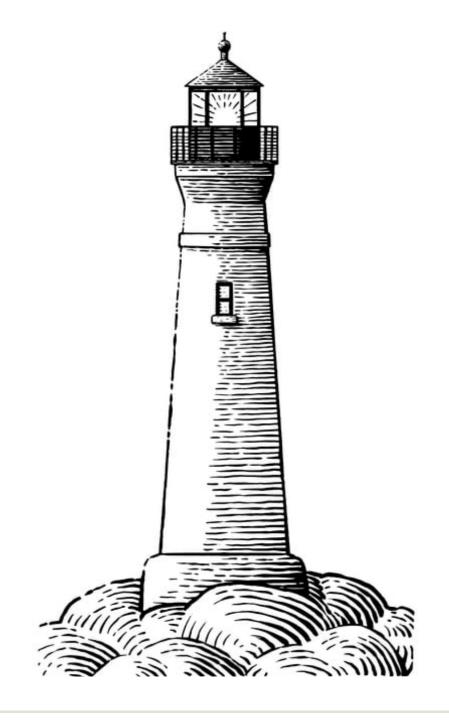


- The role of transparency: Understanding Al's decision-making process
- Need for transparency and literacy in Al development and results

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Wrapping up

- Al ethics: The guiding beacon in an Aldriven world
- Ensures benefits of AI without compromising moral values
- Ethical Al: Not just good practice, but good business



Let's practice!

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Digging deeper: Al ethics principles

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Meet MedTech Innovations

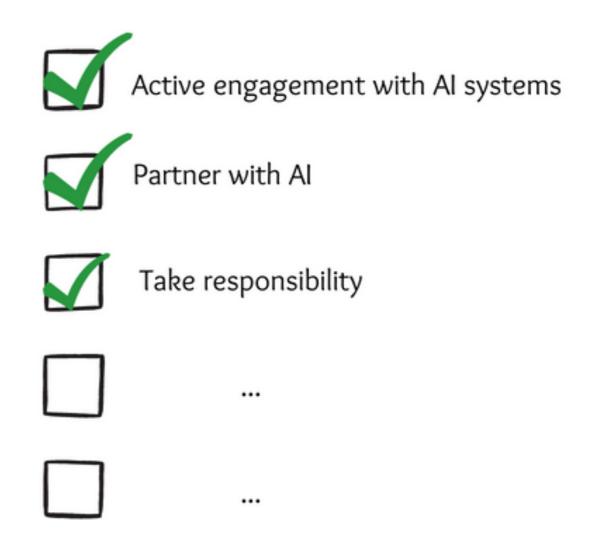
- MedTech Innovations
 - Healthcare company
 - Using AI to improve patient care and uphold ethics
- Personal reflections
 - Consider the application of AI ethics in...
 - Personal life
 - Career
 - Known businesses



The principle of fairness

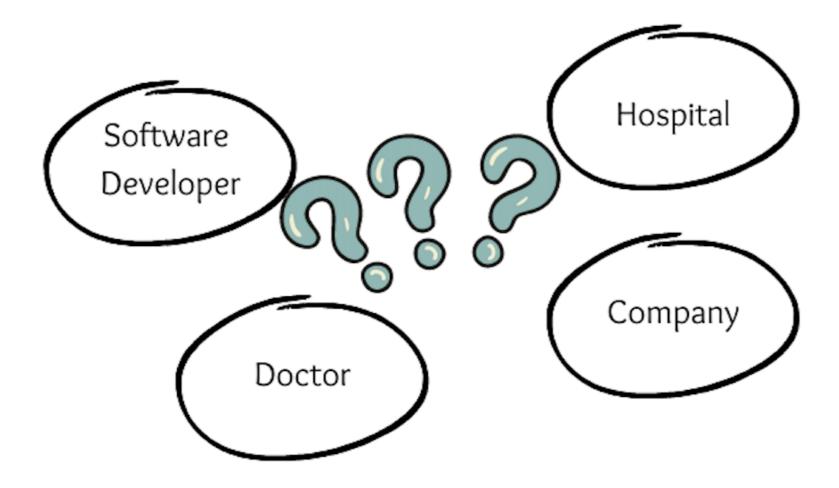
- MedTech's AI in patient care
 - Personalized treatment plans
- Challenge:
 - Unintentional bias in Al systems
 - Potential discrimination
- Principle of fairness
 - Equal treatment
 - Avoidance of discrimination

How to address these issues?



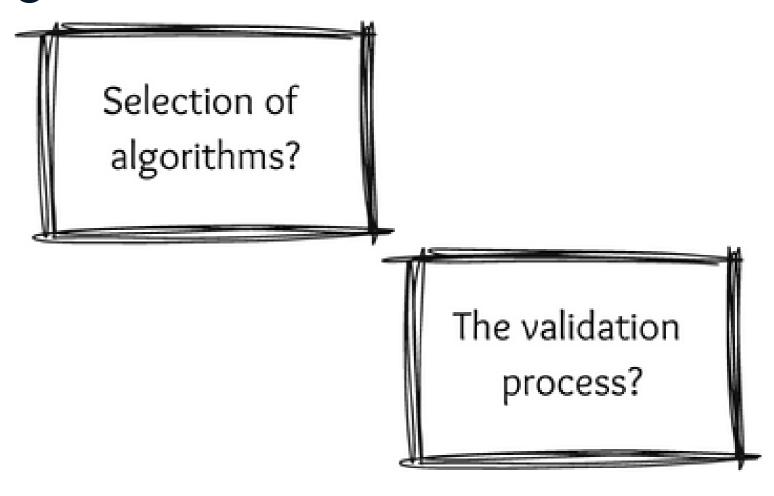
The principle of accountability

- Scenario: MedTech's AI system mistake affecting patient treatment
- Principle of accountability:
 - Someone should always be accountable for Al outcomes



The principle of transparency

- Scenario: MedTech's Al system recommends a specific treatment
- Challenge: Understanding why Al made the decision
- Principle of transparency:
 - Decisions by AI should be explainable and comprehensible
 - Sharing knowledge and information across different stakeholders



Applying Al ethics

Fairness:

Continual testing of Al systems to detect and rectify bias

Accountability:

Clear responsibilities defined for each Al system's outcomes

• Transparency:

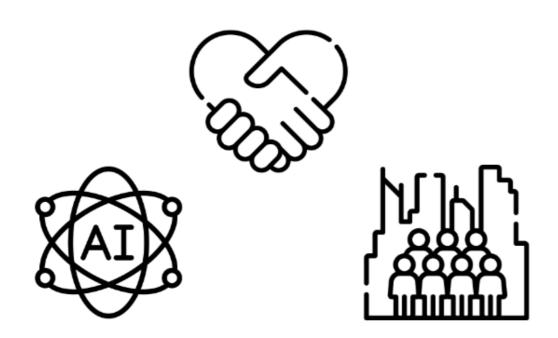
Make AI systems explainable and understandable

Commitment:

Ethical adherence builds trust, mitigates risks

Why do they matter?

- Understanding & applying principles: Ensures ethical Al use
- Building trust: Transparency and accountability foster patient trust
- Mitigating risks: Ethical Al use reduces potential risks
- Promoting AI: Transparency and knowledge-building enhances societal trust and utilization of AI



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Let's practice!

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Al ethics: where's the line?

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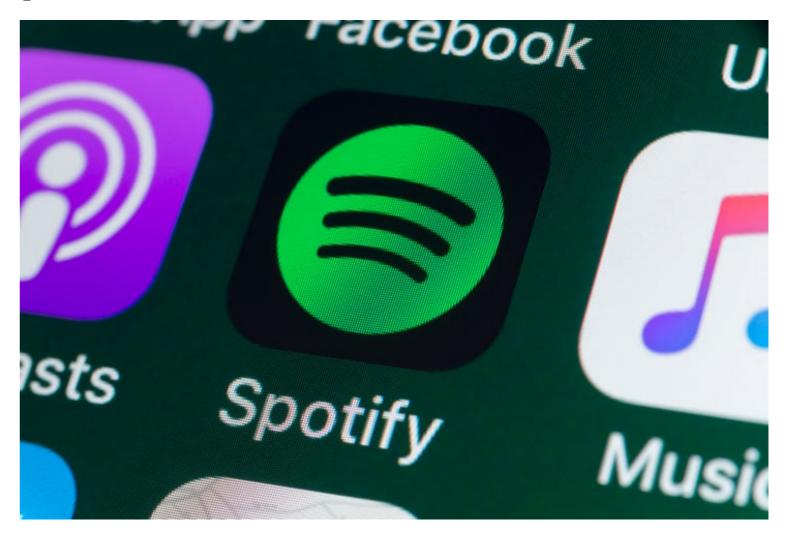
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The privacy-personalization paradox

- Al personalizes user experiences, enhancing appeal
- The privacy-personalization paradox
 - Personalization can compromise user privacy
- Solution:
 - Al literacy
 - Clear privacy policies
- Example: Spotify



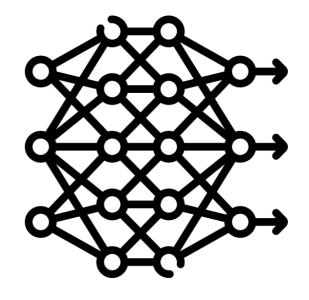
The bias-fairness conundrum

- Bias-fairness conundrum:
 - Al learns from data that can carry societal biases
- Result:
 - Al may unintentionally amplify these biases
- Example:
 - Early versions of ChatGPT
- Solution:
 - Train Al models with fairer, bias-free data



The transparency-complexity trade-off

- Transparency-complexity trade-off:
 - Complex AI models lack transparency but are highly accurate





- Simpler models are more transparent but less accurate
- Al literacy is vital for comprehension and ethical implications

¹ Icon made by Freepik from www.flaticon.com

The autonomy-control dilemma

- Autonomy-control dilemma:
 - Al can act autonomously but might operate outside human control
- Question:
 - Should we prioritize autonomy or control?
 - No one-size-fits-all answer
- Example:
 - Tesla's Autopilot system emphasizes driver vigilance and readiness to take control



Navigating the challenges

- Navigating ethical dilemmas in AI requires thoughtful trade-offs
- Importance of human element in decision-making
- Striving for better decisions in complex situations
- Need for diverse stakeholders' involvement and continuous Al monitoring

Let's practice!

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