# Al ethics: What's the buzz?

AI ETHICS



#### Joe Franklin

Associate Data Literacy and Essentials Manager, DataCamp



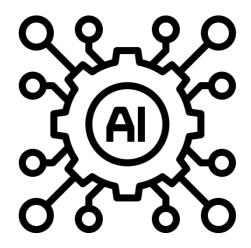
### Intro to ethics

Al growth and the surge in public attention

Al ethics: A crucial discussion



The intersection of Al and ethics





<sup>&</sup>lt;sup>1</sup> Icons made by surang & Flowicon from www.flaticon.com

### 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





<sup>&</sup>lt;sup>1</sup> Icons made by Freepik, wanicon, Pixel perfect from www.flaticon.com

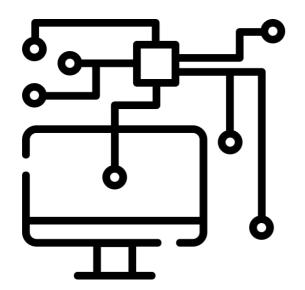
## Why Al ethics?

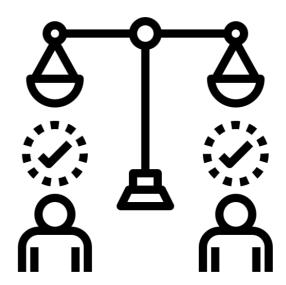
- Why AI ethics?
  - Risks of unchecked biases, illustrated by insurance claim denial scenario
- Human influence on Al
  - Biases seep into decision-making
- Wider impact
  - Legal professions, judiciary, public decision-making



## 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

<sup>&</sup>lt;sup>1</sup> Icons made by Freepik & noomath from www.flaticon.com

## The big picture

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



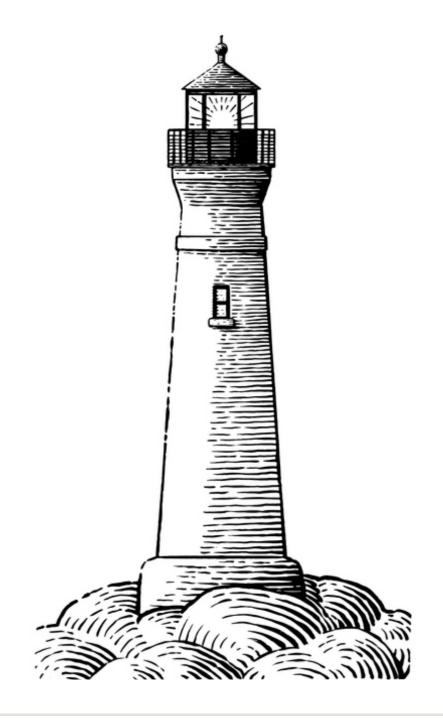


- The role of transparency: Understanding Al's decision-making process
- Need for transparency and literacy in Al development and results

<sup>&</sup>lt;sup>1</sup> Icons made by Freepik & Wichai.wi from www.flaticon.com

## Wrapping up

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



## Let's practice!

AI ETHICS



# Digging deeper: Al ethics principles

AI ETHICS



#### Joe Franklin

Associate Data Literacy and Essentials Manager, DataCamp



## **Meet MedTech Innovations**

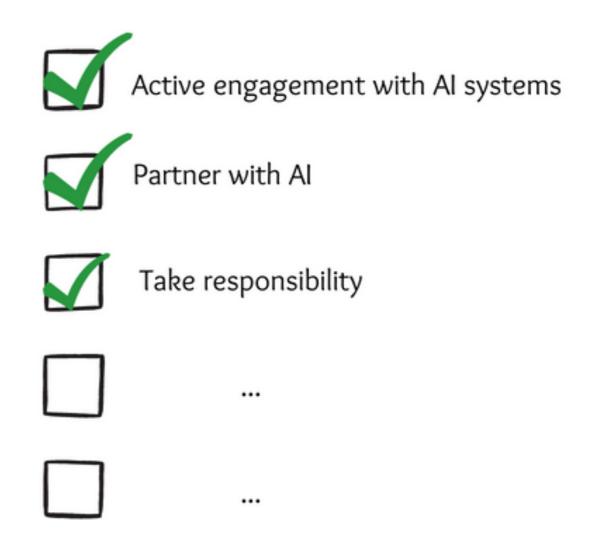
- MedTech Innovations
  - Healthcare company
  - Using AI to improve patient care and uphold ethics
- Personal reflections
  - Consider the application of AI ethics in...
    - Personal life
    - Career
    - Known businesses



## The principle of fairness

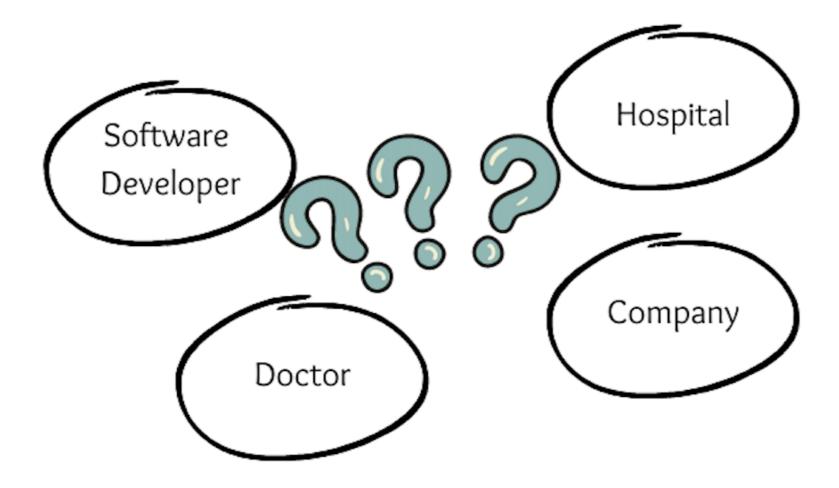
- MedTech's AI in patient care
  - Personalized treatment plans
- Challenge:
  - Unintentional bias in Al systems
  - Potential discrimination
- Principle of fairness
  - Equal treatment
  - Avoidance of discrimination

#### How to address these issues?



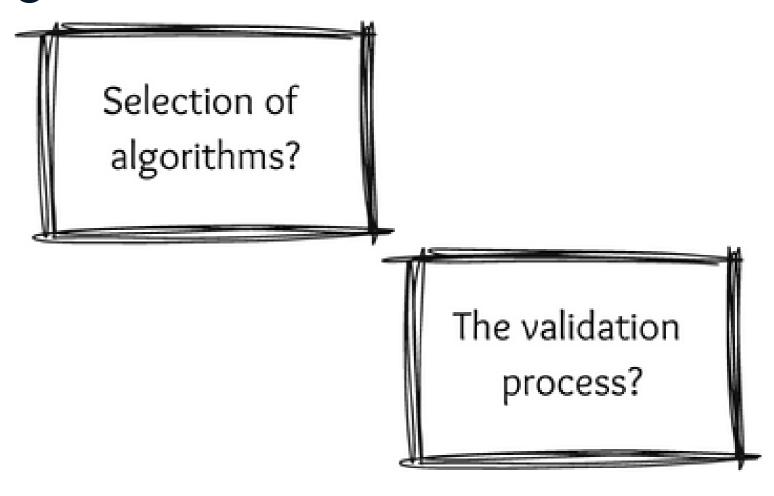
## The principle of accountability

- 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:

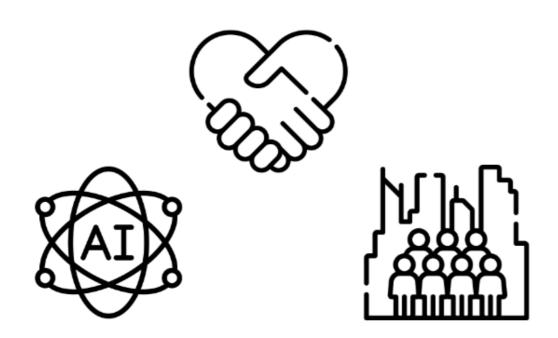
Make AI systems explainable and understandable

#### 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



<sup>&</sup>lt;sup>1</sup> Icons made by Freepik & Smashicons from www.flaticon.com



## Let's practice!

AI ETHICS



# Al ethics: where's the line?

AI ETHICS



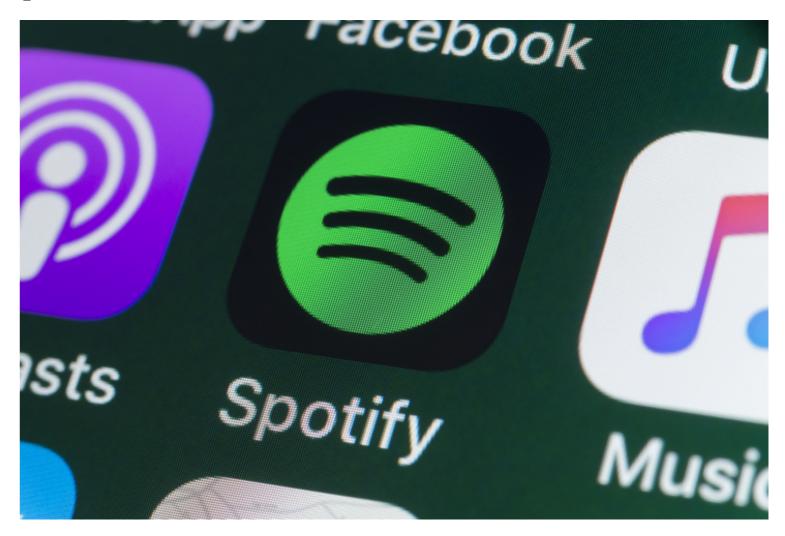
#### Joe Franklin

Associate Data Literacy and Essentials Manager, DataCamp



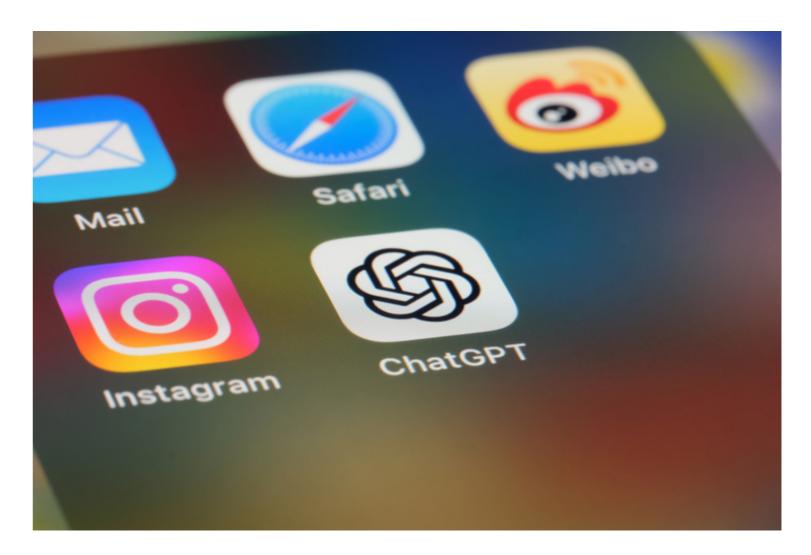
## The privacy-personalization paradox

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



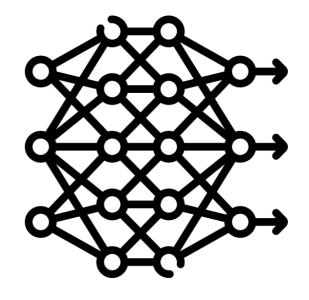
### The bias-fairness conundrum

- 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

<sup>&</sup>lt;sup>1</sup> 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!

AI ETHICS

