

The Human Factor: Exploring Ethical Dilemmas in Artificial Intelligence

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Overview

- Why Consider the Ethics of AI?
- Understanding the Ethical Implications
 - Climate Impact
 - Workforce
 - Privacy and Data Security
 - Equity and Accessibility
 - Intellectual Property
 - Academic vs Public Domain
 - Plagiarism and Academic Integrity
 - Bias and Accuracy
 - Social Impact
 - Misuse by Bad Actors



Why Digital Literacy Matters



- Fosters Critical Thinking
- Creates Responsible Digital Citizens
- Empowers People to Navigate the Digital World More Confidently

AI Literacy and Information Literacy



“Lower Student AI Literacy Predicts Higher Propensity to Use AI on Assignments”

*Article: “Lower Artificial Intelligence Literacy Predicts
Greater AI Receptivity”
by Tully, Longoni & Appel*

10 Ethical Implications



Climate Impact

Running and Hosting Data Centers
and maintaining their Infrastructures

- Water
- Power



Climate Impact

NATIONAL

Three Mile Island nuclear plant will reopen to power Microsoft data centers

SEPTEMBER 20, 2024 · 1:40 PM ET

By C Mandler



The Three Mile Island nuclear plant is seen in March 2011 in Middletown, Pa.
Jeff Fusco/Getty Images

Workforce

- Data Labeling and Annotation
 - Outsourced for low pay
- Content Moderation
 - Manual filtering of harmful material
- Labor Exploitation
 - Use of gig workers (*labor protection, health benefits, job security*)
- Global Labor Disparity
 - Digital Colonialism (*wealthier nations profiting from undervalued labor of poorer nations*)



Privacy and Data Security

The Right to Privacy
&
Sensitive Data Input



Privacy and Data Security

[Computing](#) > [Computing Security](#) > [Cyber Security](#)

Everyone wants the viral AI doll – but it's a privacy nightmare waiting to happen

Opinion

By Chiara Castro published 2 days ago

Millions have already given away their face and sensitive data to jump on the latest viral AI trend

Privacy and Data Security

"The detailed personal and behavioral profiles that tools like ChatGPT can create using this information could influence critical aspects of your life – including insurance coverage, lending terms, surveillance, profiling, intelligence gathering or targeted attacks," Maguire told me.

Equity and Accessibility

- Access Inequities (*high speed internet, newer devices, digital literacy*)
- Algorithms and Lack of Representation
- Language and Cultural Equity
- Cost Barriers
- Output Bias Undermining Accessibility

Equity and Accessibility



Apply Donate News

The CSU System / News / CSU Announces Landmark Initiative to Become Nation's First and Largest AI-Empowered University System

PRESS RELEASE : **STUDENT SUCCESS**

Share:



CSU Announces Landmark Initiative to Become Nation's First and Largest AI-Empowered University System

2/4/2025

AI tools and training will be available to all 460,000 students and 63,000 faculty and staff.

Intellectual Property



- Fair Use vs. Plagiarism
 - *Copyright laws for sharing and repurposing*
 - *Ethics of creating and sharing AI generated content*
- Proper Attribution
- Respecting Intellectual Property Rights In a Digital Space



Intellectual Property



The New York Times

The Times Sues OpenAI and Microsoft Over A.I. Use of Copyrighted Work

Millions of articles from The New York Times were used to train chatbots that now compete with it, the lawsuit said.

Academic vs Public Domain

- When to Use AI Generated Content
 - *output that “appears” scholarly*
- Who “Owns” the Output
- Open Knowledge vs AI Exploitation
 - open access vs. paywall articles
- Copyright and Integrity Issues
- Definition of “Original Thought”



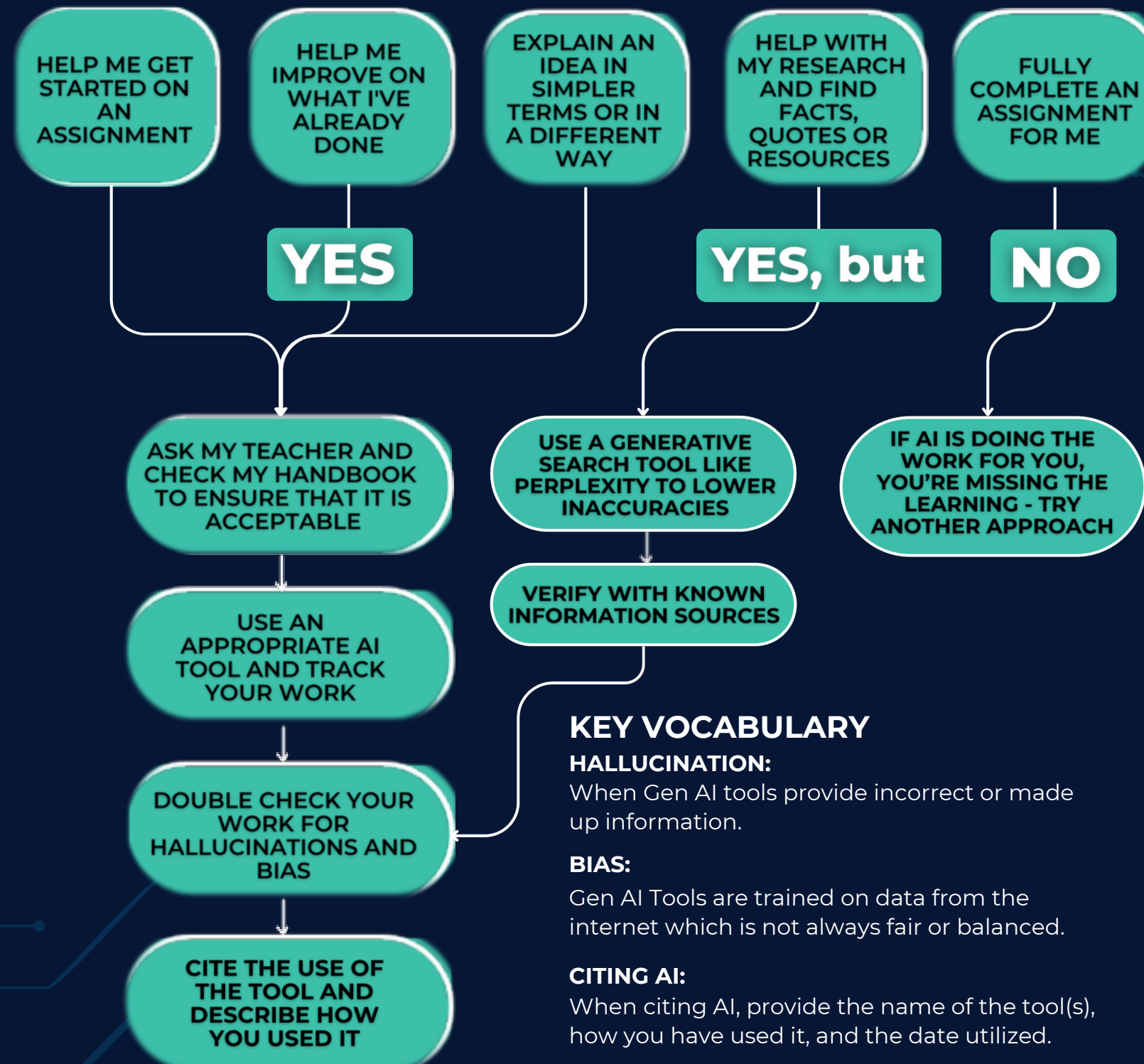
Plagiarism and Academic Integrity



- Setting Clear Guidelines
- Syllabus statement
- Conversations about Cheating
- Creating AI Resistant Assignments



Why do you want to use an AI Chatbot? I want it to...



Source link

Bias and Accuracy



- Algorithmic Bias
- Diversity of Thought and Representation



Bias and Accuracy



can you give me some images of successful students?

Bias and Accuracy

can you give me some images of successful students?



Bias and Accuracy



can you please give me some images of a medical doctor

Bias and Accuracy

can you please give me some images of a medical doctor



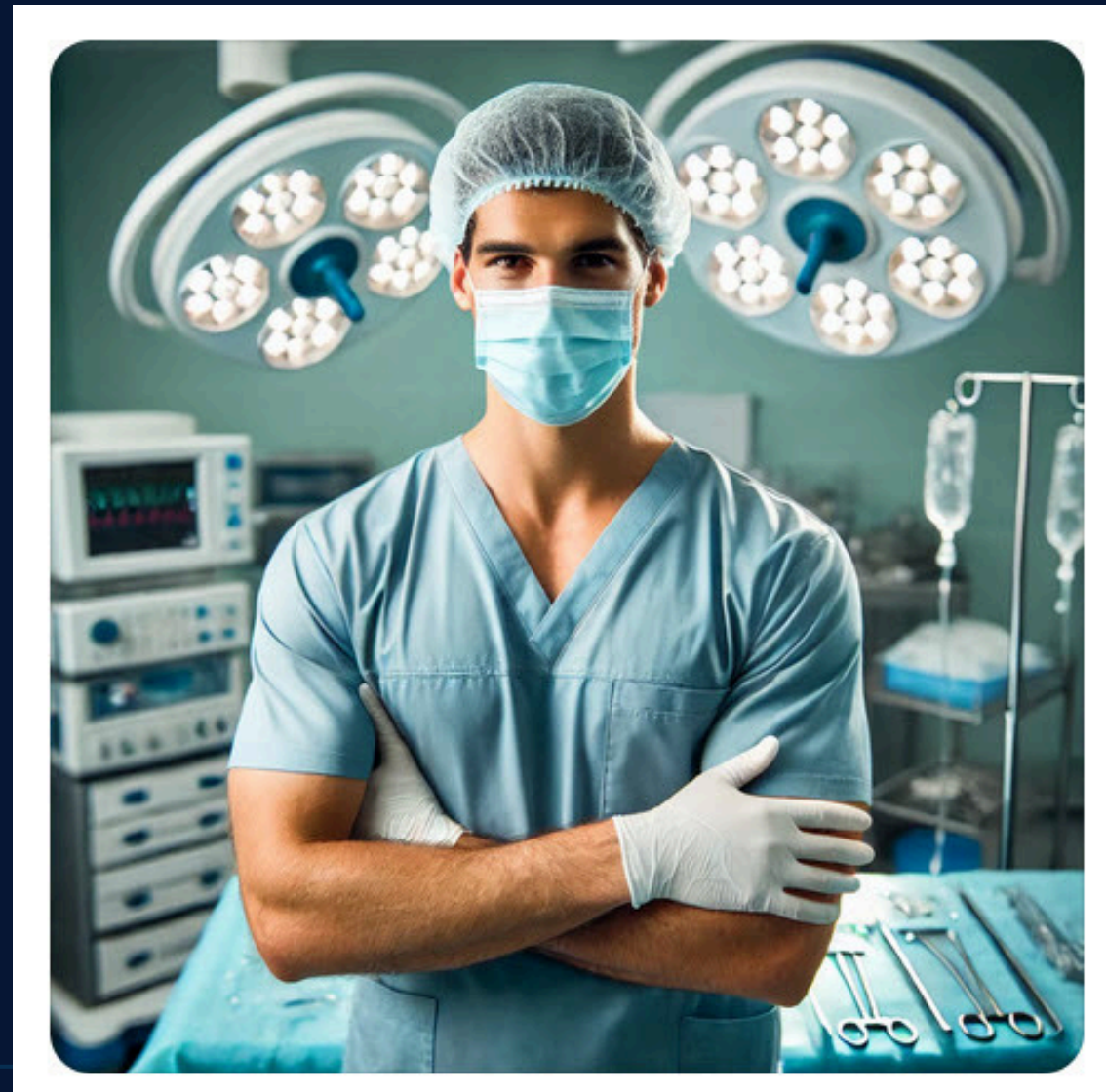
Bias and Accuracy



thank you, I would also like an image of a surgeon please

Bias and Accuracy

thank you, I would also like an image of a surgeon please



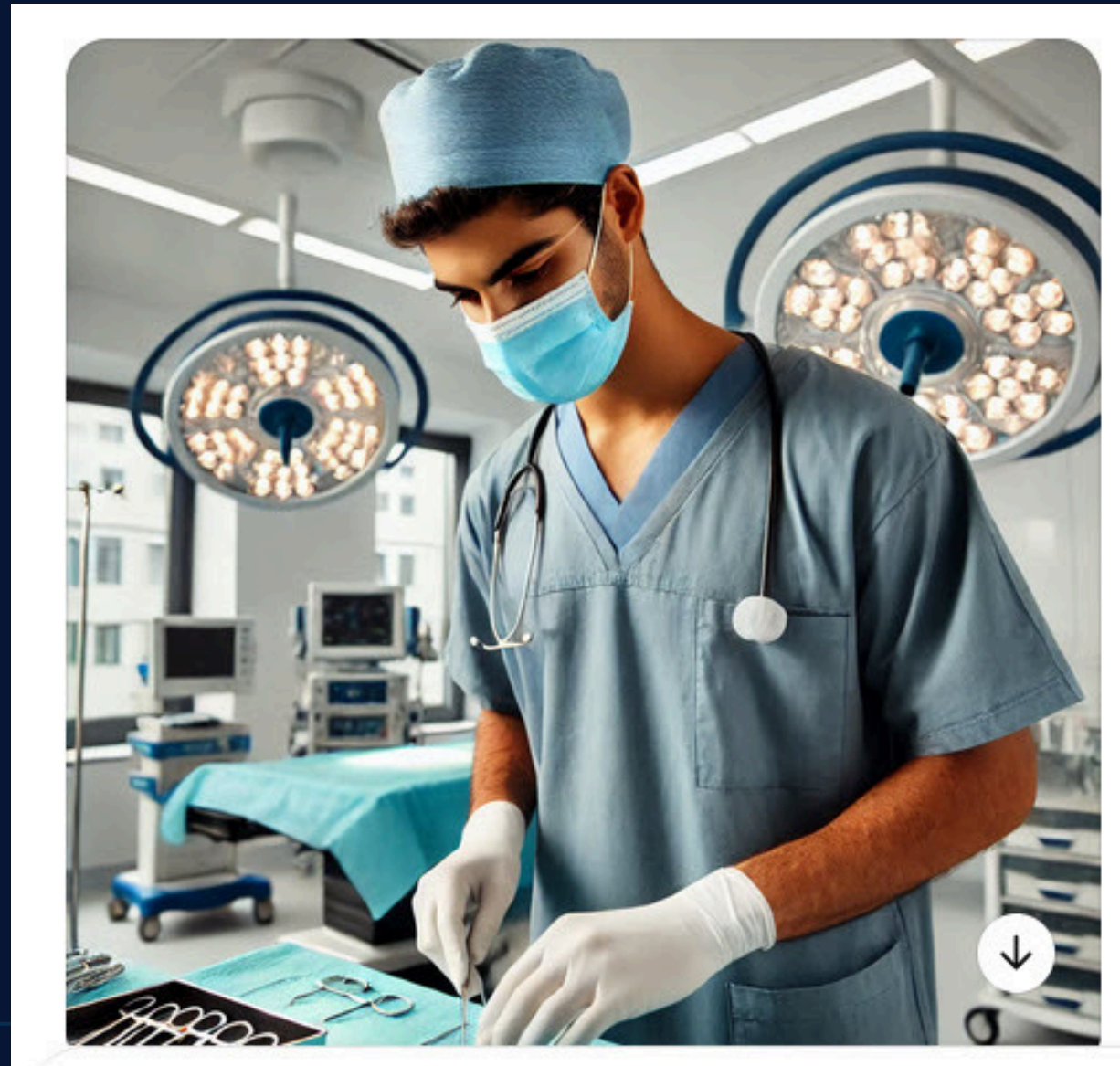
Bias and Accuracy



thank you, can I have a different image of a surgeon please

Bias and Accuracy

thank you, can I have a different image of a surgeon please



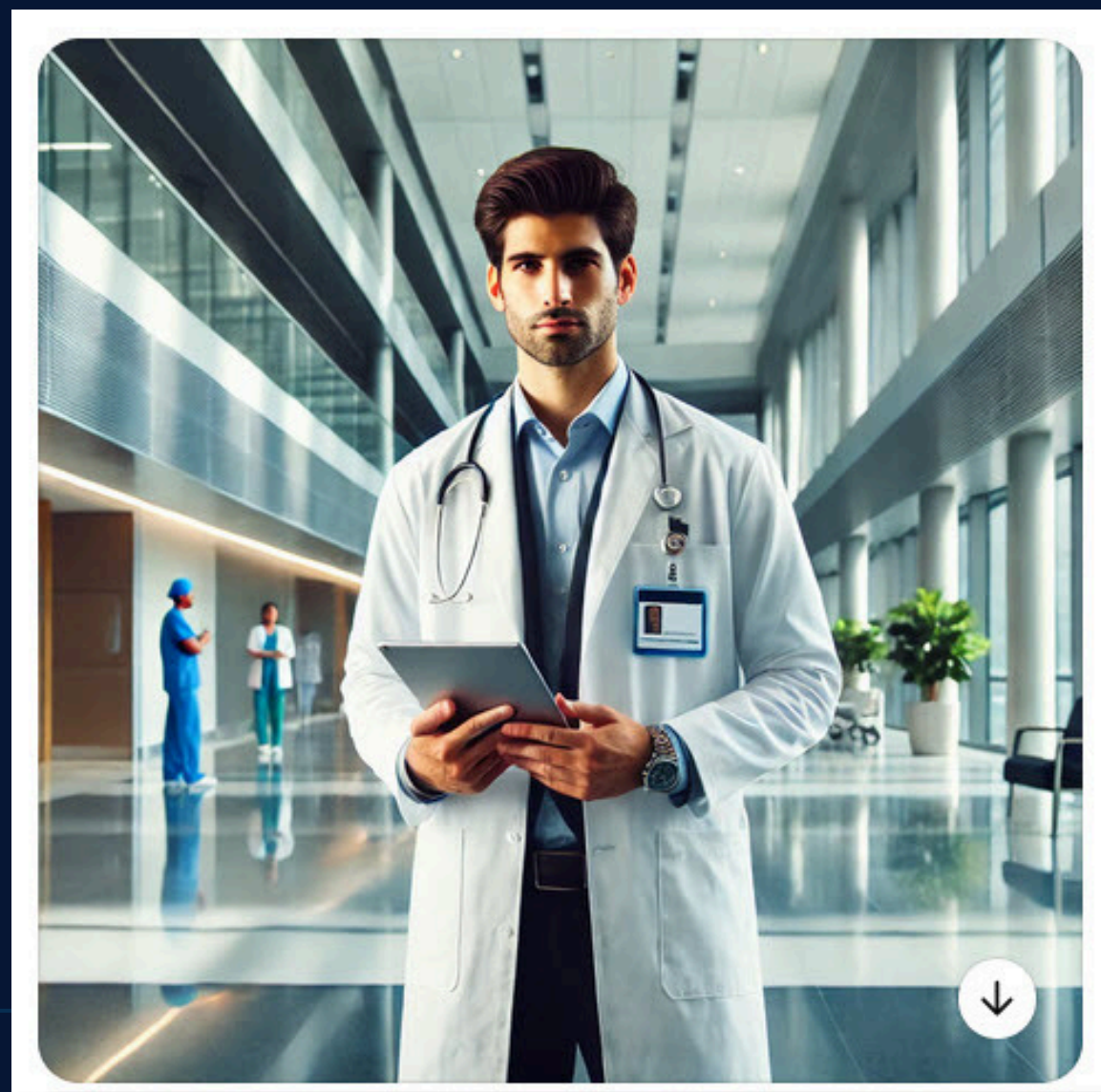
Bias and Accuracy



Now I would like an image of a "chief of staff" at a surgical hospital please

Bias and Accuracy

Now I would like an image of a "chief of staff" at a surgical hospital please



Bias and Accuracy



Here's an image of a chief of staff at a surgical hospital, embodying leadership and professionalism in a high-end healthcare environment. Want another version—perhaps in a meeting with surgeons or addressing a medical team? Just let me know!

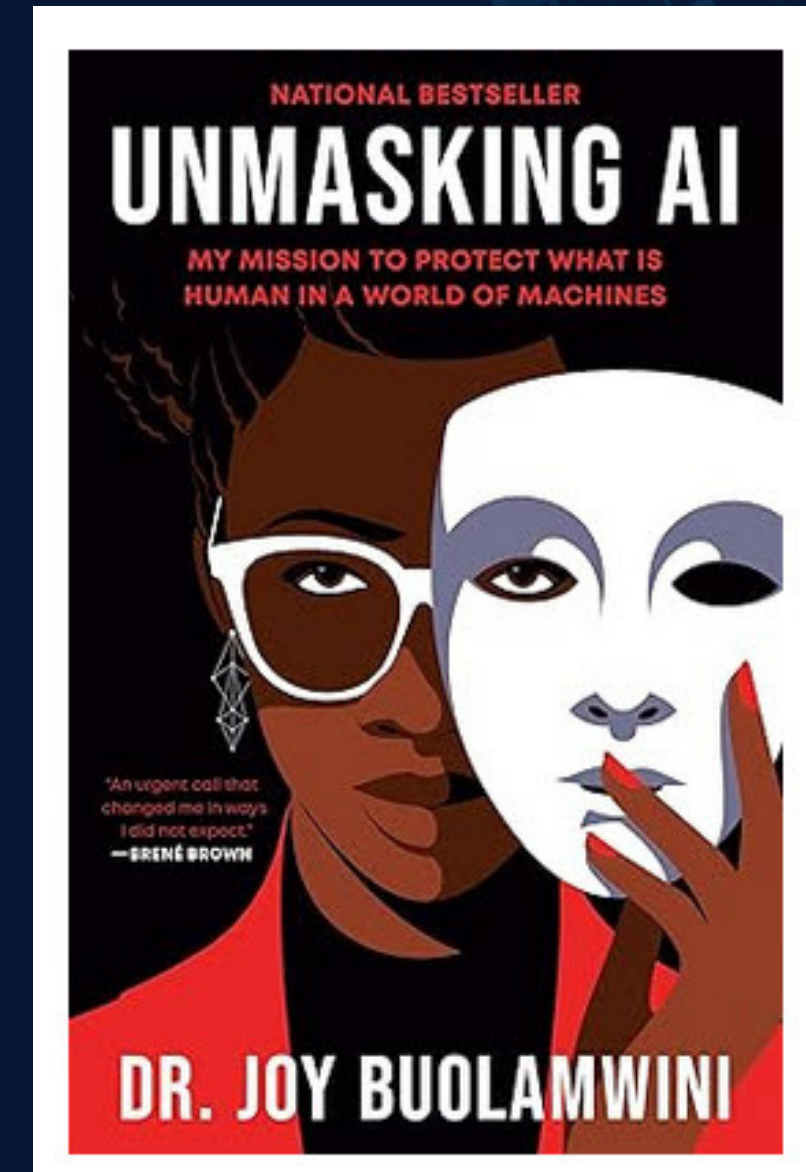
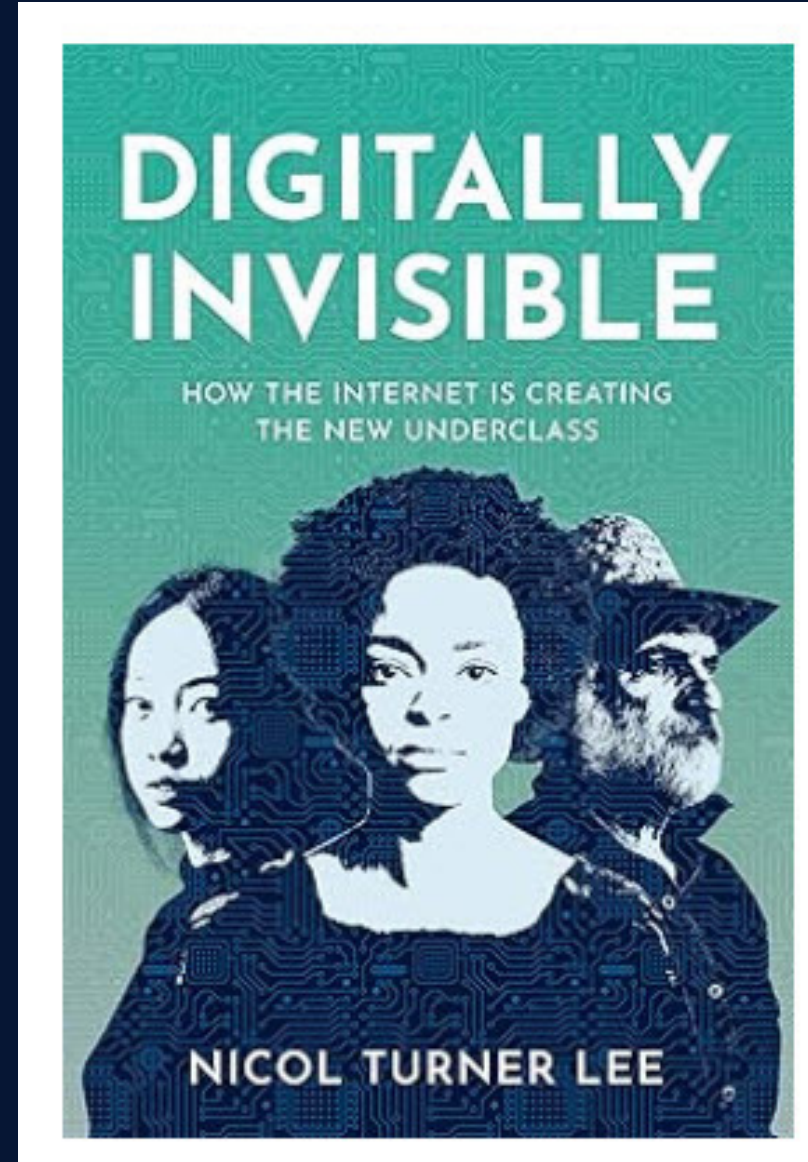
Oh! I would love one of the chief of staff in a high end healthcare environment addressing a medical team, thanks



Bias and Accuracy



Bias and Accuracy



Transparency and Accountability

- 
- Who is Responsible for Errors?
 - How Do We Know Where the Information Came From?

Social Impact



- Lack of Social Development
- Depersonalized Student Interactions
- The Importance of “Durable Skills”



Social Impact



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5 Soft Skills That Are Critical In The Age Of AI

By [Caroline Castrillon](#), Senior Contributor. ⓘ Caroline Castrillon covers career, ... [Follow Author](#)

Jan 19, 2025, 04:30pm EST

**“80% of respondents say soft skills
are more important than ever.”**

- Strategic Thinking
- Communication Skills
- Honesty and Integrity
- Critical Thinking
- Adaptability

-Wiley Research Study 04/2024

Innov**AI**tion **DAY** 2025

Misuse By Bad Actors



- Identity Theft
- Blackmail
- Cyberbullying
- Propoganda/Fake News
- Election Manipulation
- Non Consensual Images/Videos



Misuse By Bad Actors



- Real or Fake? The AI Deepfake Game
- Odd One Out
- Sesame.com Conversation Voice
Demo

Thank you! Let's connect!



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