Artificial Intelligence in Community Pharmacy Practice

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Disclosure Statement

Olivia Kinney has no relevant financial relationship(s) with ineligible companies to disclose.

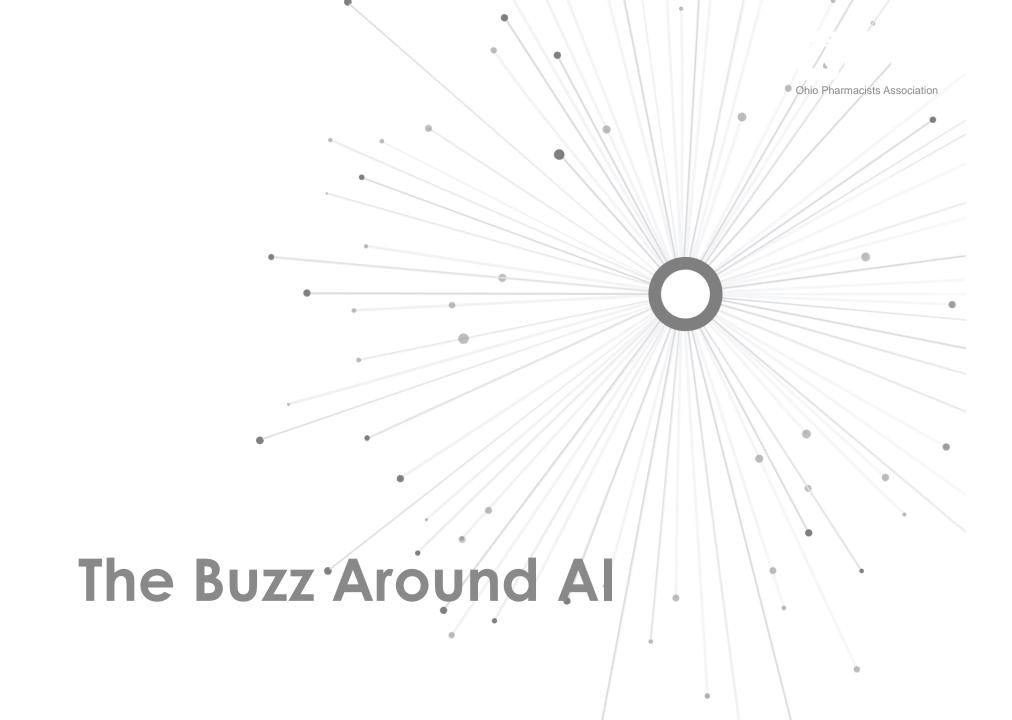
and

None of the planners for this activity have relevant financial relationships with ineligible companies to disclose.

Learning Objectives

At completion of this activity, participants will be able to:

- 1. Define artificial intelligence and its origin;
- 2. Identify best practices for responsible use of artificial intelligence;
- 3. Discuss barriers to artificial intelligence implementation in pharmacy practice; and
- 4. Discuss use cases for artificial intelligence in pharmacy practice



The future
of healthcare
is **personalized**,
not **generalized**.



Generative AI to Become a \$1.3 Trillion Market by 2032, Research Finds



Kroger CIO Discusses Digital Innovation Trends for Grocery Retail in 2024



AI, ChatGPT use in medicine can help or hurt patients



Amazon spends \$2.75 billion on Al startup Anthropic in its largest venture investment yet



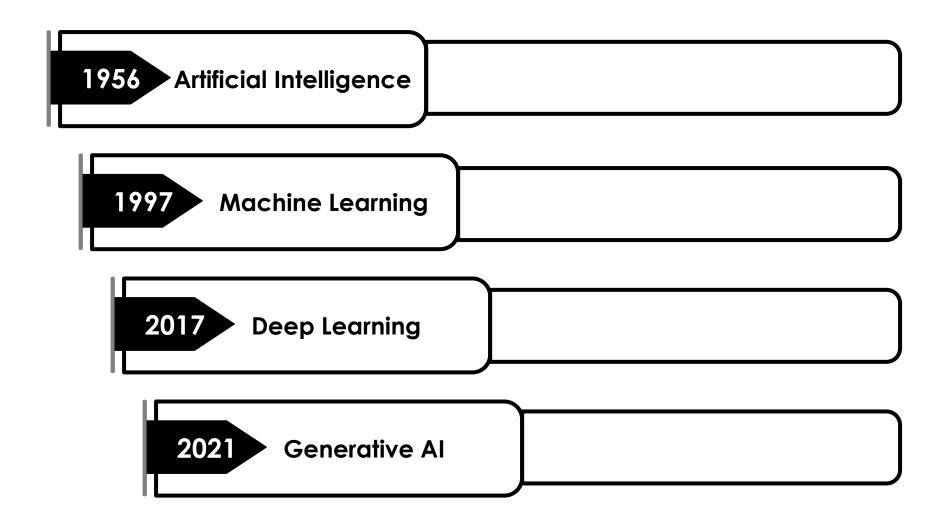
Fretting About Election-Year Deep Fakes, States Roll Out New Rules for A.I. Content



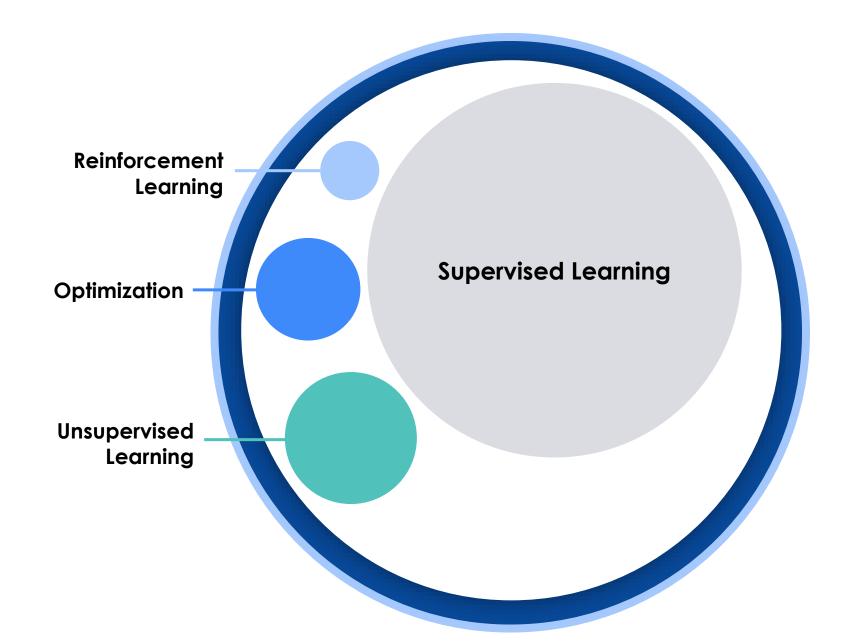
ChatGPT passes MBA exam given by a Wharton professor



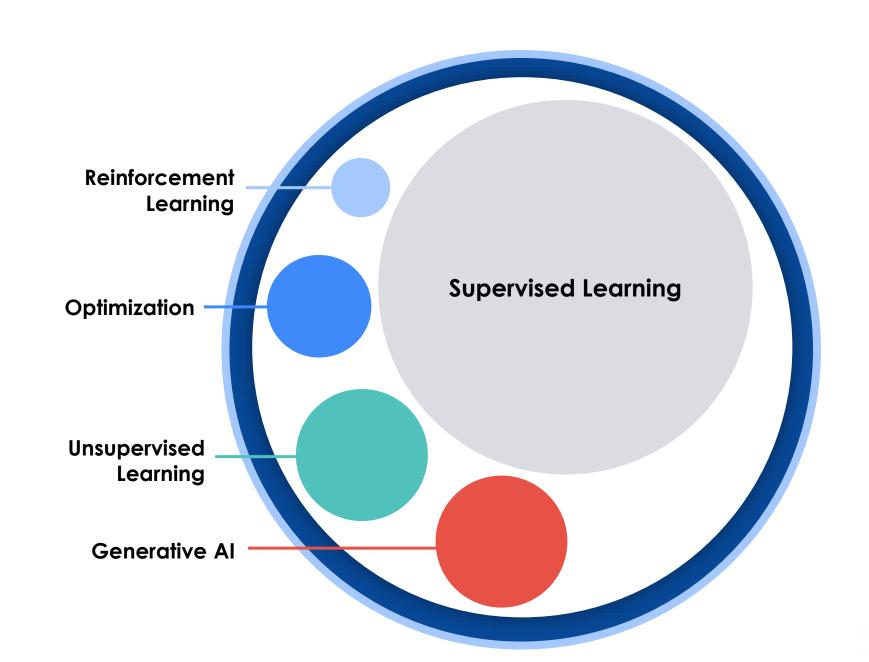
History



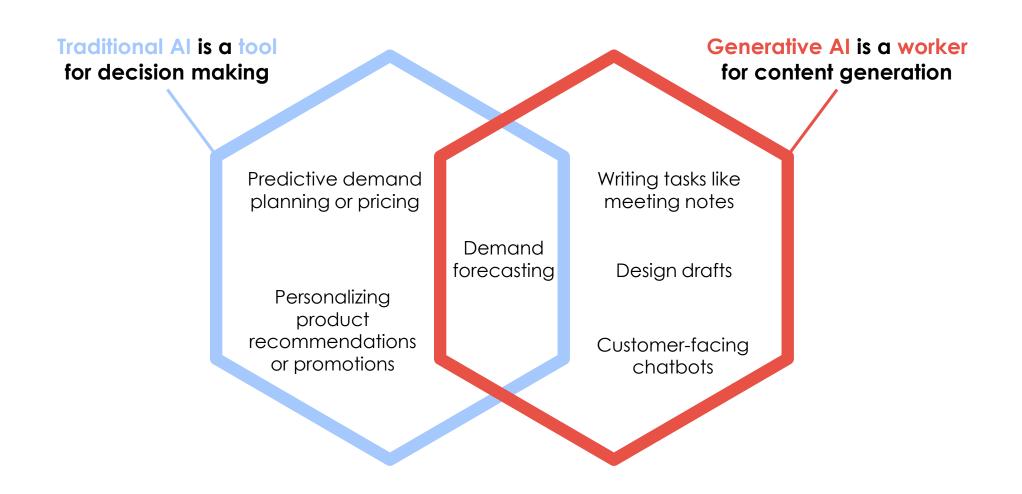
Al algorithms are our toolkit



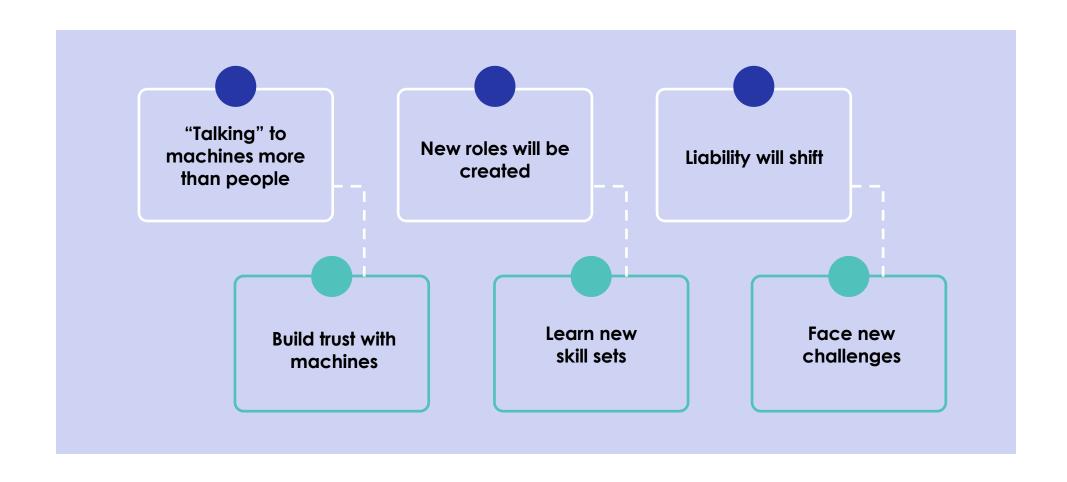
GenAl is the newest tool

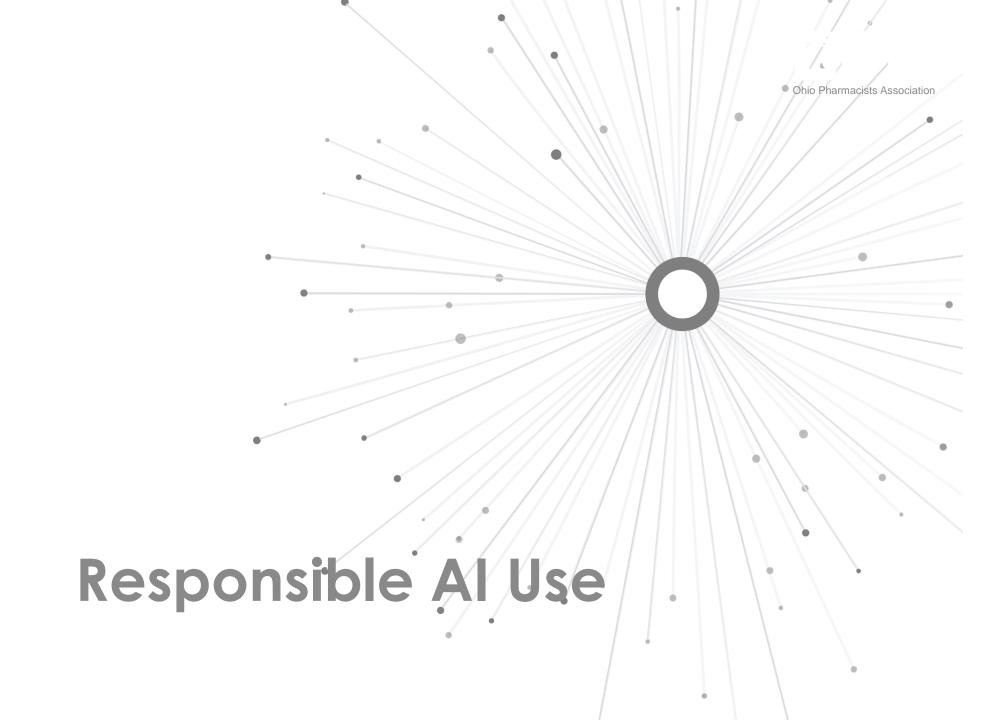


Traditional vs. Generative Al



Al Drives Change







Experts warn of rise in scammers using AI to mimic voices of loved ones in distress



Tom Hanks says dental plan video uses 'Al version of me' without permission



Analysis: State Al Legislation Surges by 440% in 2023

THE WALL STREET JOURNAL.

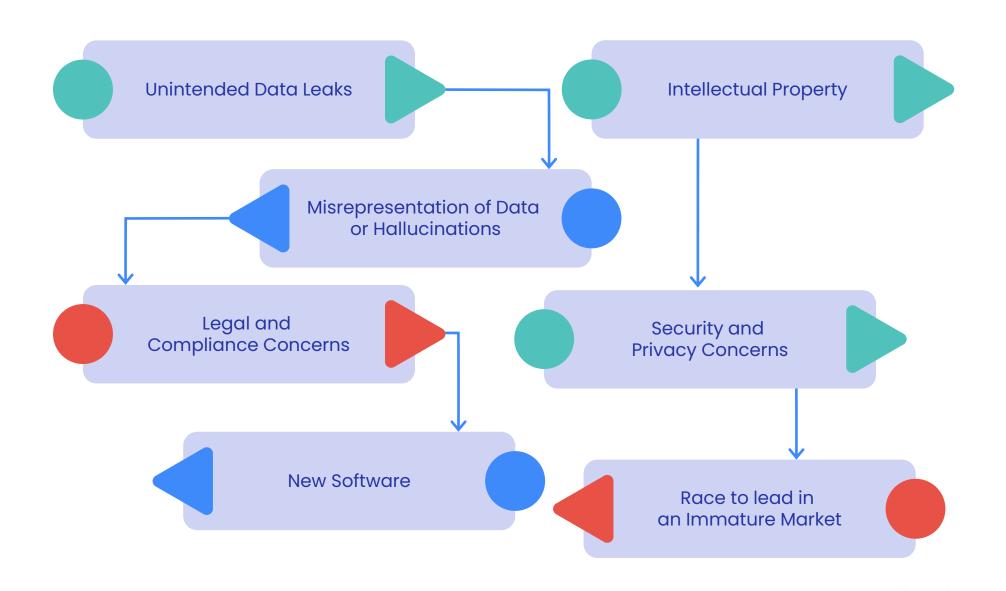
New York City Passed an Al Hiring Law. So Far, Few Companies Are Following It.



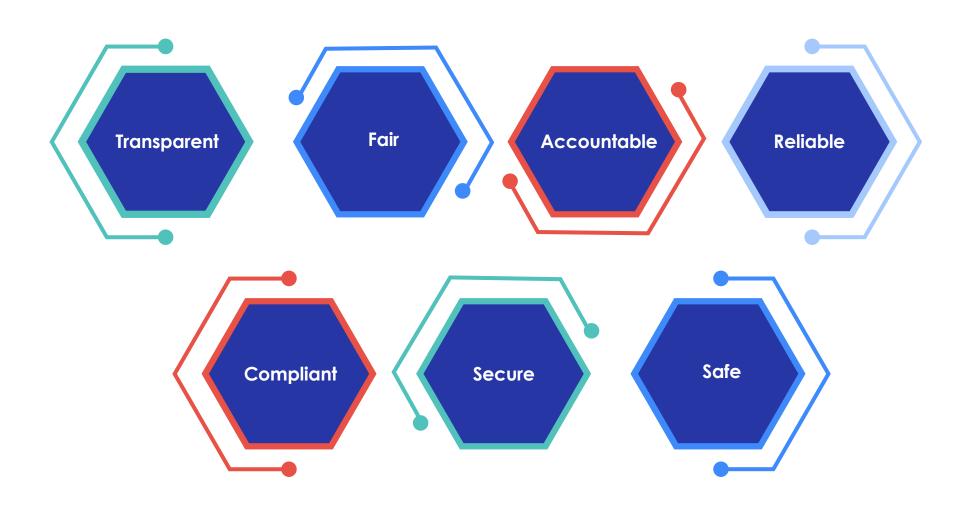
House leaders launch bipartisan artificial intelligence task force



Al Introduces New Risks



Responsible AI Frameworks





Barriers to AI Implementation

√Culture of suspicion or fear

✓ Cost

✓ Technology capabilities

✓ Upskilled talent

✓ Data Infrastructure

What does AI mean for healthcare?







Effectiveness of ChatGPT in clinical pharmacy and the role of artificial intelligence in medication therapy management

BioMed Research International

Artificial
IntelligenceBased DataDriven Strategy
to Accelerate
Research,
Development,
and Clinical
Trials of COVID
Vaccine



Artificial Intelligence Solutions to Increase Medication Adherence



Al spots signs of mental health issues in text messages on par with human psychiatrists



Generative artificial intelligence can have a role in combating vaccine hesitancy



Identifying Opportunities

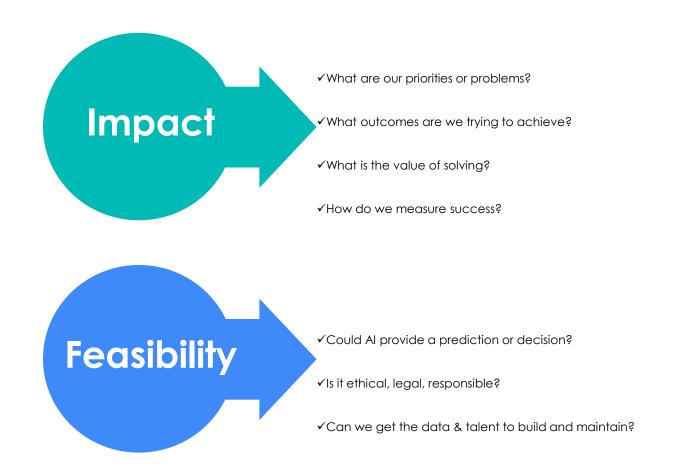


- ✓ What are our priorities or problems?
- ✓ What outcomes are we trying to achieve?
- ✓ What is the value of solving?
- √How do we measure success?

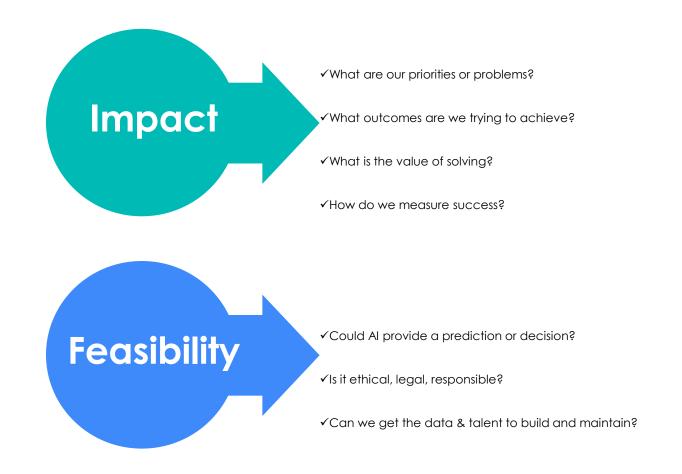


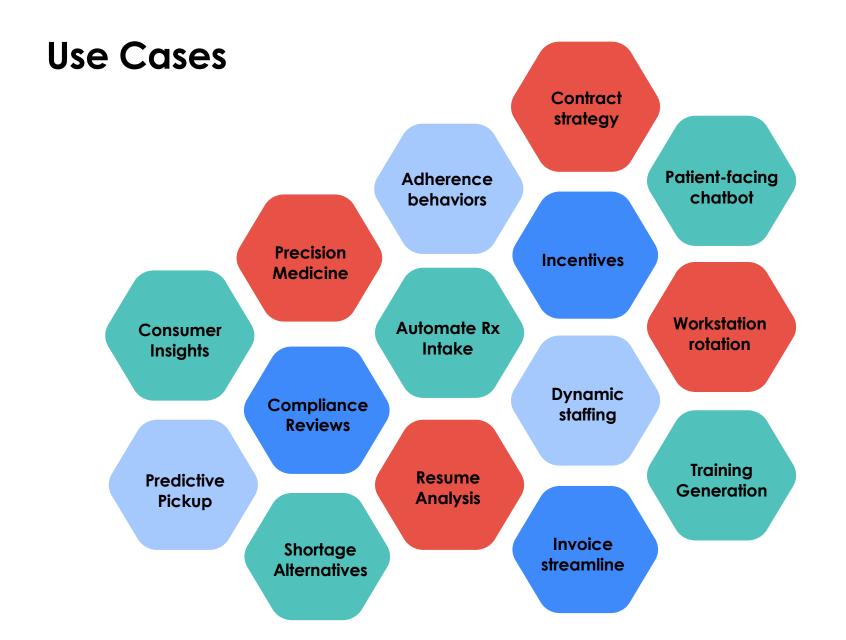
- ✓ Could Al provide a prediction or decision?
- ✓Is it ethical, legal, responsible?
- ✓ Can we get the data & talent to build and maintain?

Use Case: Personalizing Customer Outreach



Use Case: Chatbot





Al is a resource
to improve human
connections, not
replace them.

Researchers have been experimenting with artificial intelligence since the 1950's.

Al is accelerating due to demand for amplification of human power through automation, efficiency, and computing power.

Al Barriers include:

- culture,
- cost,
- skills, and
- data infrastructure.

Innovation in healthcare will give the ability to utilize data to personalize and impact patient care.

Without responsible practice, Al has potential for unintended consequences and may not perform the task as designed.

Identify impact and feasibility to prioritize your use of Al.

Data Science and AI are complex, but foundational knowledge enables everyone to understand its applications and value.



References

Overview of artificial intelligence in medicine - PMC (nih.gov)

<u>Advancing Patient Care: How Artificial Intelligence Is Transforming Healthcare - PMC (nih.gov)</u>

Al in medicine: Where are we now and where are we going? - PMC (nih.gov)

ChatGPT passes MBA exam given by a Wharton professor (nbcnews.com)

Generative AI to Become a \$1.3 Trillion Market by 2032, Research Finds | Press | Bloomberg LP

Fretting about election-year deep fakes, states roll out new rules for A.I. content. - The New York Times (nytimes.com)

AI, ChatGPT use in medicine can help or hurt patients – and doctors (usatoday.com)

<u>Amazon spends \$2.75B on Anthropic in largest venture investment yet (cnbc.com)</u>

What is Artificial Intelligence (AI)? | IBM

The potential for artificial intelligence in healthcare - PMC (nih.gov)

<u>Artificial intelligence (AI) algorithms: a complete overview | Tableau</u>

Experts warn of rise in scammers using AI to mimic voices of loved ones in distress - ABC News (go.com)

BSA Analysis: State Al Legislation Surges by 440% in 2023 | BSA | The Software Alliance

New York City Passed an Al Hiring Law. So Far, Few Companies Are Following It. - WSJ

Thankyou.



Need More Information?

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