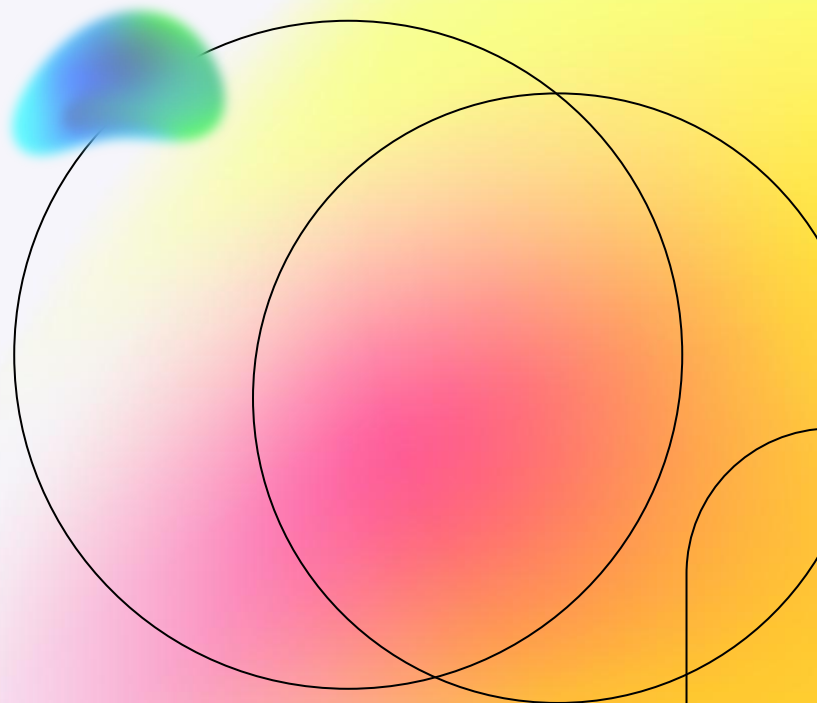




Empowering Libraries:

Exploring the AI Frontier

British Columbia Library Association



Dr. Brandy McNeil
PLA President-Elect
NYPL Deputy Director
10/30/24

Table of contents

01

Ethics

Addressing AI concerns

02

Legality

Copyright, privacy & regulatory challenges

03

Educating

Empowering staff & patrons

04

Gen AI

Gen AI & Libraries



The background features a white canvas with several overlapping circles in various colors (cyan, green, yellow, orange, pink, red) that create a soft, multi-colored gradient. In the top-left and bottom-right corners, there are 5x5 grids of small black dots. Two thin black lines extend diagonally from the top and bottom edges towards the center of the page.

01

Ethics



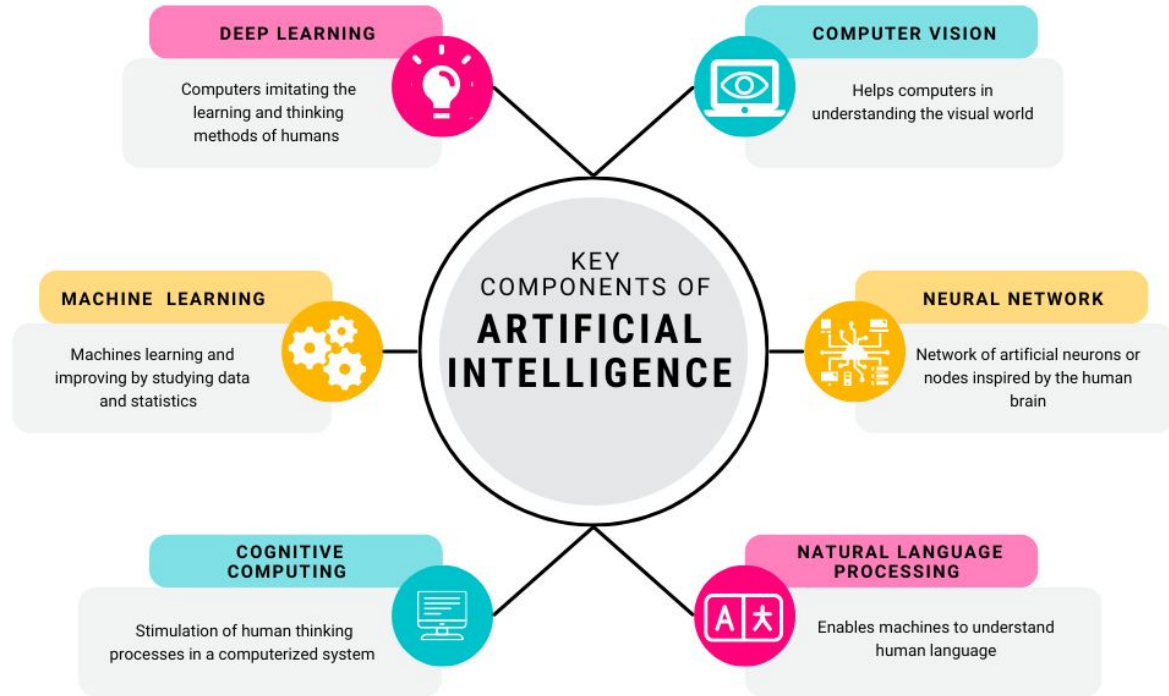
200,000,000
0

Number of ChatGPT Users

AI isn't just one technology!

Artificial intelligence is the science of making machines that can think like humans. It can do things that are considered “smart.” AI technology can process large amounts of data in ways, unlike humans. The goal for AI is to be able to do things such as recognize patterns, make decisions and judge like humans.

- HCL Tech



AI and Society

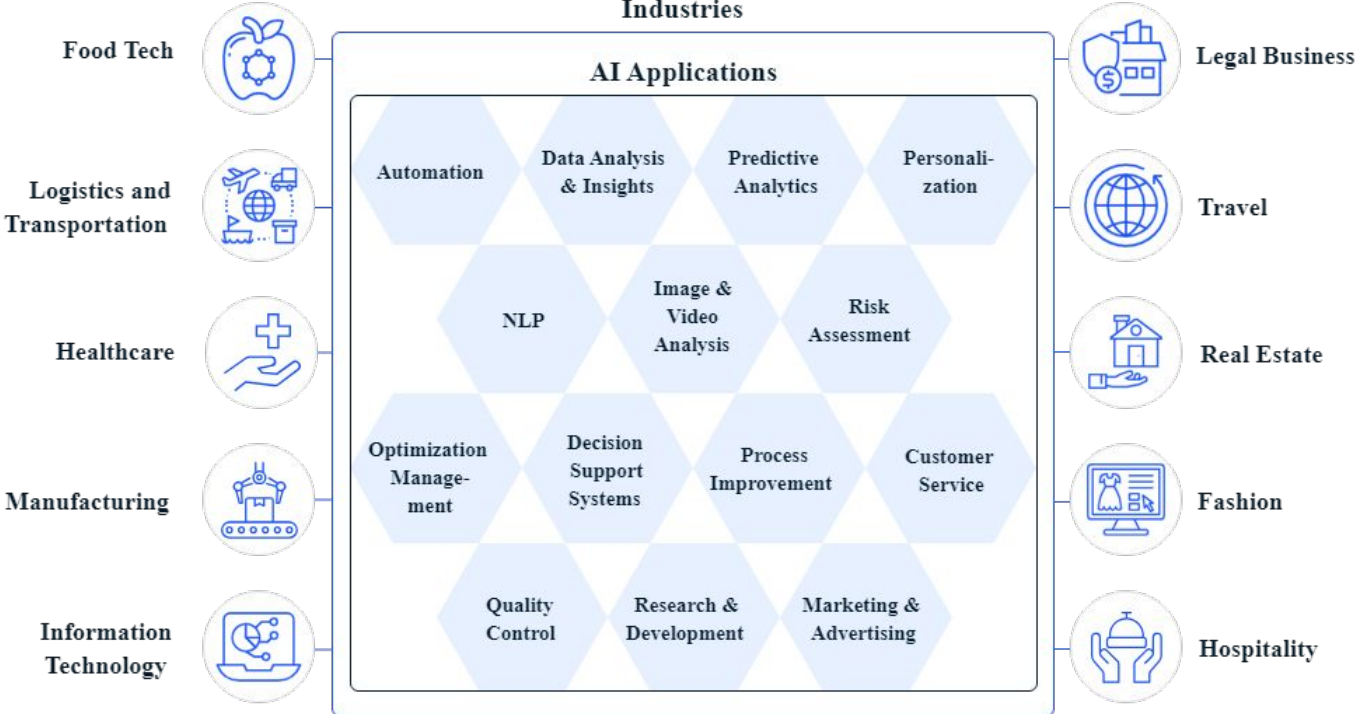


Image Source: LeewayHertz

AI Concerns: Bias

The data is trained by scraping data that is already biased. In addition, the data it is being trained from is by a human who also has biases.



AI Concerns: EDI

Can lead to unequal outcomes and lack of inclusivity



AI Concerns: Privacy

Can compromise personal privacy through data misuse and unauthorized facial recognition



AI Concerns: Deep Fakes

Can harm people
and erode trust.



AI Concerns: Climate Change

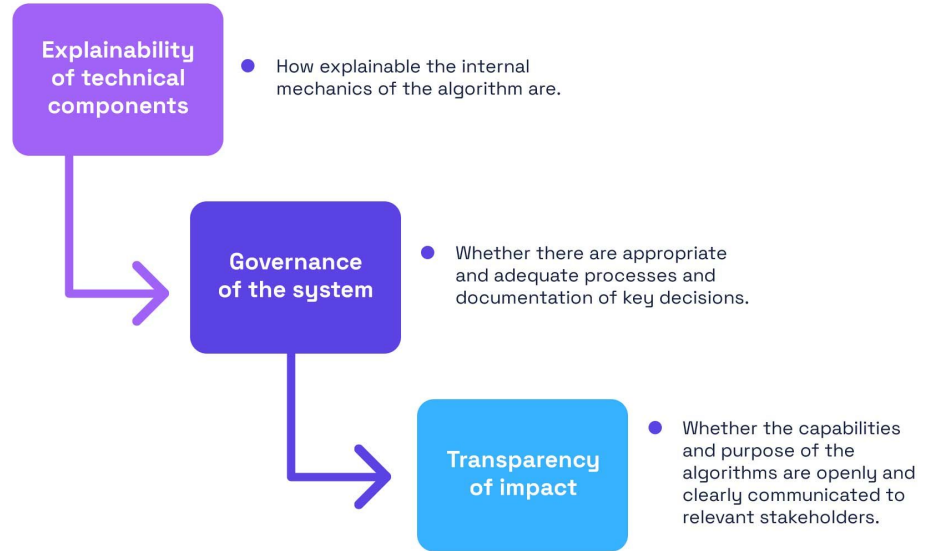
1 ChatGPT search
uses nearly

10x the electricity
of a typical internet
search.



The Future of AI

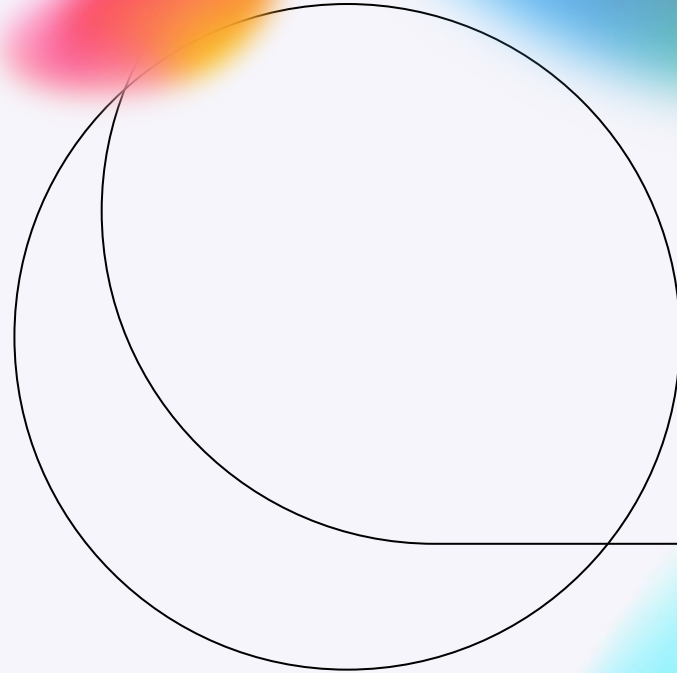
AI Transparency deals with concepts such as explainable AI (XAI): Understanding how data predictions and algorithms are produced help people to understand the influence of decisions made.



02

Legality

& Libraries



CHABRIOL
COLEBATCH
LLB, COPYRIGHT COORDINATOR
copyright@brocku.ca



COURSE MATERIALS



! You!

BRock UNIVERSITY
CENTRE FOR PEDAGOGICAL INNOVATION
& LIBRARY



© ACT
PROJECTOR
EXCEPTION

ONLINE

USE FAIR DEALING ONLY

- criticism
- review



OTHER OPTIONS



- BILL C-11
- FILMS IN CLASS
 - EDUCATIONAL FAIR DEALING
 - INTERNET MATERIALS
- BUT
DRM
NO LOCK BREAKING



ART

PLAY IN CLASS
DB
CD-RESERVE
DOMAIN
LINK TO LEGITIMATE SITE

TEXT



COURSE PACK

DON'T WORRY → BOOKSTORE ADOPTION

PUT ORIGINAL BOOK on LIBRARY RESERVE



FAIR DEALING

ONLY SUPPLEMENTARY
< 25% OF REQ'D READING
and
1 COPY (MAX 3 COPIES)
[10 STUDENTS]

DON'T WORRY → INVESTIGATE BOOKS w LIBRARY

Are AI tools just "assistants," or can they be considered creators?

@giuliaforsythe

AI Concerns: Consent

The data that has been scraped is not data that most people have given these companies permission to use. Copyright and AI laws are grey.



EU AI Act

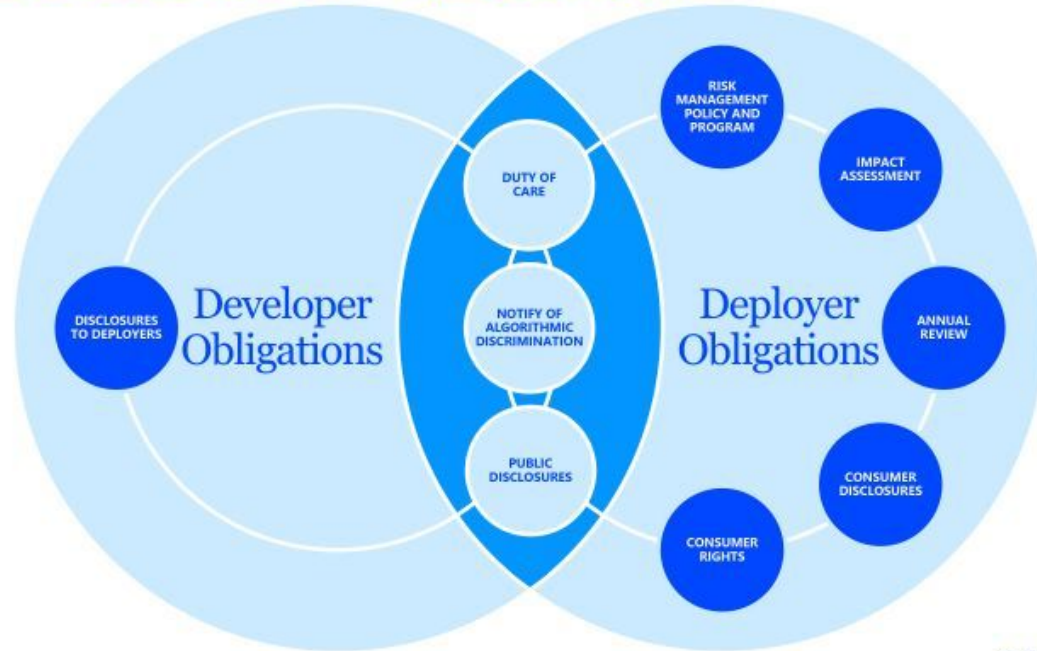
EU Artificial Intelligence Act: Risk levels



Colorado AI Act

Colorado
AI Act:

Colorado AI Act: Developer v. Deployer Obligations

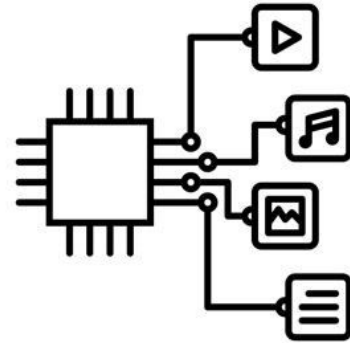


California AI Transparency Act

California
Legislature Passes
Generative AI
Training Data
Transparency Bill



The California AI
Transparency Act



*******SIGNED INTO LAW*******

AI in Political Campaigns

States with laws regulating the use of AI in p campaigns

As of Sept. 16, 2024

■ Law(s) passed ■ Bill(s) under consideration ■ None



The background features a white canvas with several overlapping circles in shades of cyan, green, yellow, and orange. A grid of small black dots is positioned in the top-left and bottom-right corners. A thin black line extends from the top-right towards the center, and another extends from the bottom-center towards the left. A circular graphic on the right contains the number '03'.

03

Educating

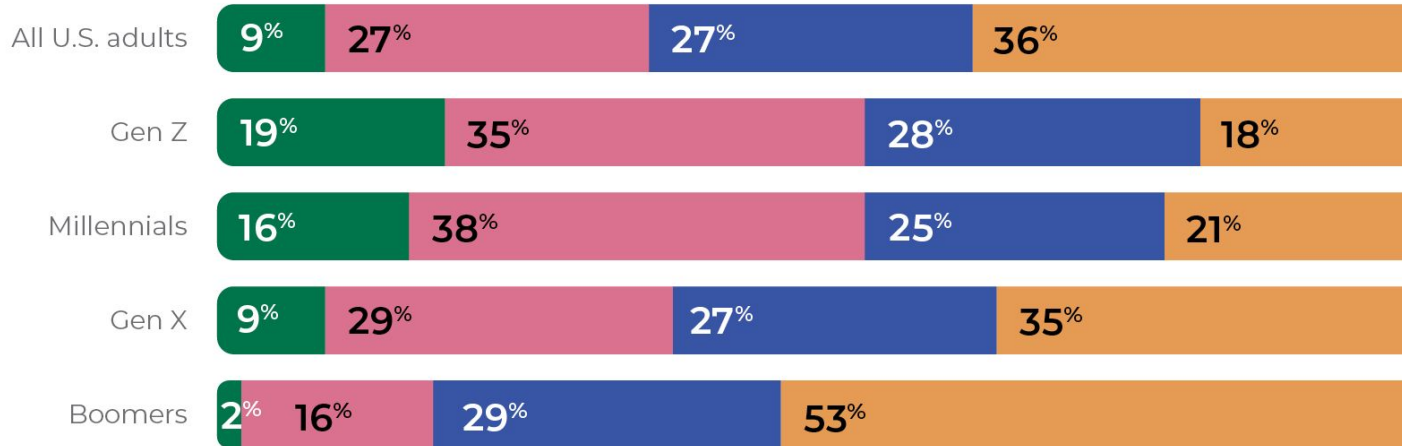
Who is Using AI?

Barna

Younger Generations Are More Likely to Use AI

How often are you using AI in your personal life?

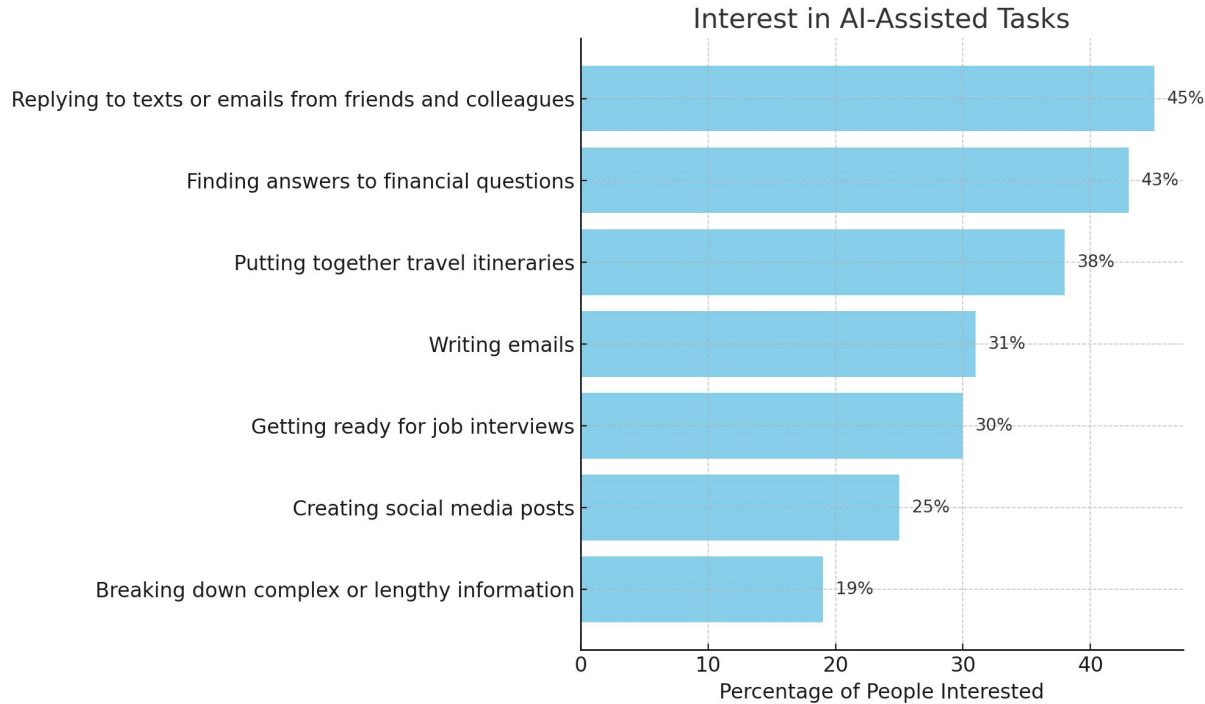
● Often ● Sometimes ● Not very much ● Not at all



n=1,500 U.S. adults, July 28–August 7, 2023.

Image Source: Barna

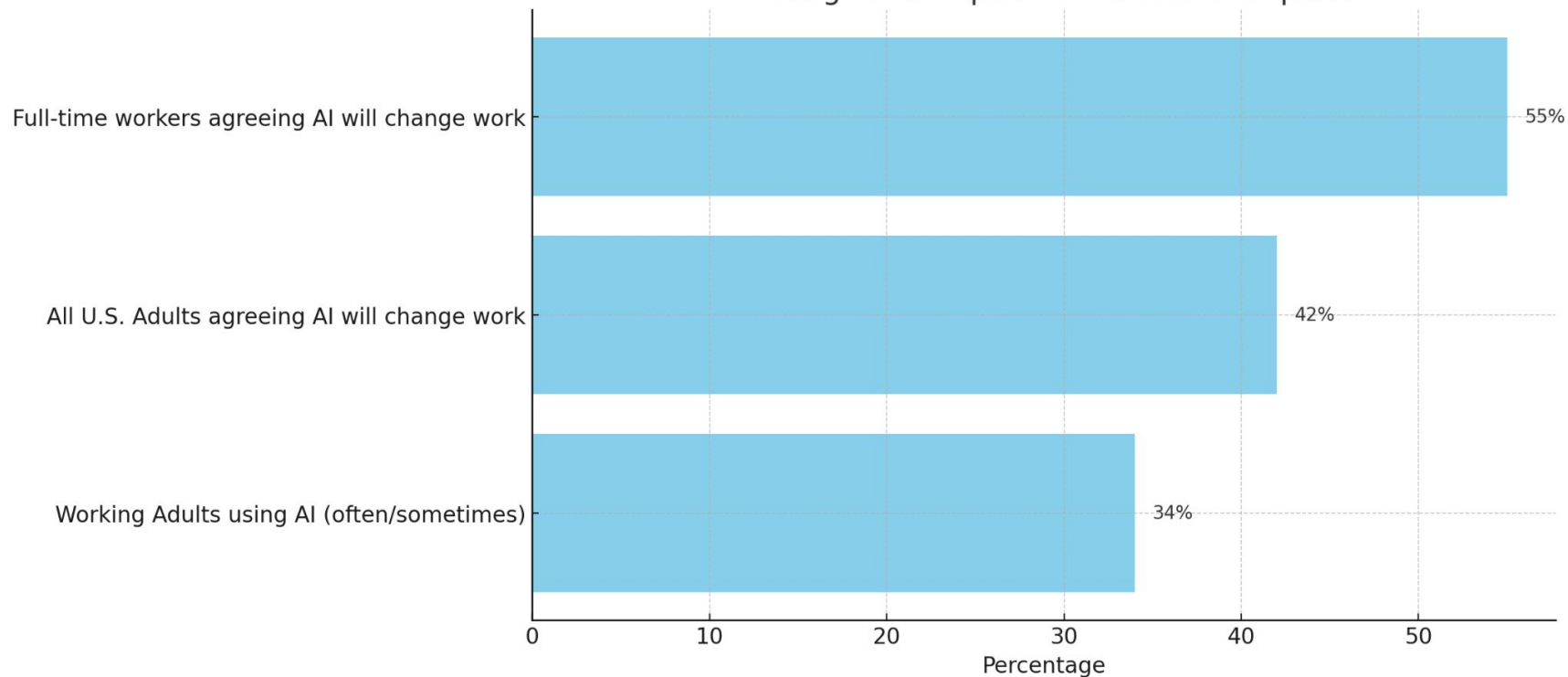
Interest in AI-Assisted Tasks



Source: Forbes Advisor Survey 2024

AI Impact on Workplace

AI Usage and Impact in the U.S. Workplace



AI Importance: Career Benefits

Understanding AI leads to faster productivity and more career opportunities.



AI Importance: Social Benefits

Fosters community growth, increases access to resources and enhances collaboration for a more inclusive future.



AI Importance: Learning Benefits

Makes learning engaging, supports critical thinking and through awareness of possibilities helps with mis/dis information.



Another Notebook LM Video: <https://www.tiktok.com/@leahmiami/video/7419141961753300267>

Impact on Communities

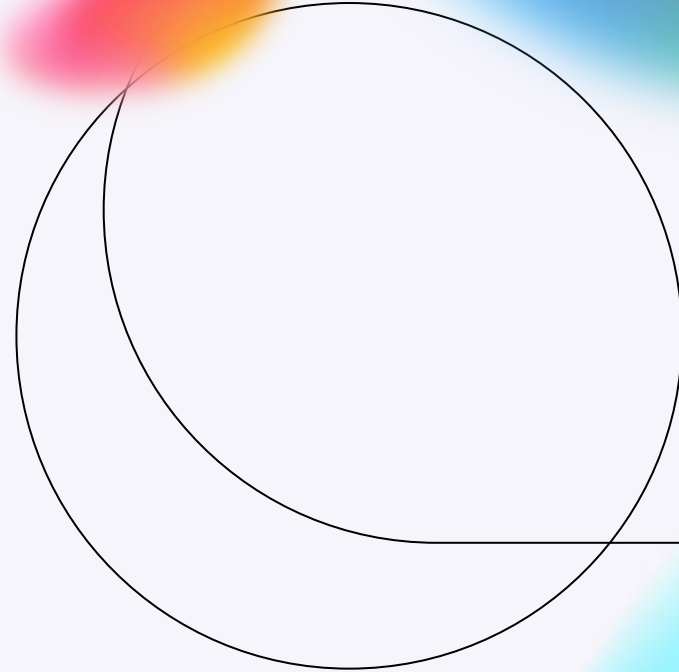
- Cultural Changes
- Everyday Tasks
- Increased Expectations
- Access to Resources
- Vulnerability



04

GenAI

& Libraries



AI Adoption Opportunities in Libraries

- Preparing patrons by helping them understand AI, the accuracy of it, their rights and how to use it responsibly
- Content discoverability through the use of small language models
- Breaking down communication barriers by using voice ai for customer service help or translation capabilities
- Increased efficiency reducing time spent on mundane tasks.

Applications **in libraries**



MeetGeek

Take notes &
create summaries
for meetings



Create flyers and
social media posts



ChatGPT

Assist w/ performance
reviews, grant writing,
book list, program ideas,
patron responses



Create outlines
and presentations

Whisper

Multi-Lingual
Support



perplexity

FAQ's and Chatbots
for frequent queries

Navigating Vendor AI Integration

- What's the track record and expertise of vendor?
- What type of support and training are provided?
- What's the ROI?
- Does it solve your specific problem & is it scalable?
- How does the vendor handle data privacy?
- What security measures are in place?
- Does it integrate seamless with your current tech stack? (software, databases, API's)
- Can you customize the solution?
- Has it been tested for bias?
- Does the vendor provide transparency around training data?
- Can the vendor explain how AI makes decisions?
- How's the performance and accuracy?
- Who will own the AI's systems output?
- Are there any societal impacts?

Steps to implement AI

Understand AI

- Learn from other organizations and agencies

Explore Tools

- Experiment with various tools
- Develop rubric to evaluate tools

Collect Data

- What are staff using and why?
- What would people like to use?

Governance

- Create a governance structure
- Create an AI Policy

Evaluate

- Vendor evaluation
- Use Case Evaluation

Launch

- Staff training
- Tools to be used
- Patron training

Why GenAI Literacy for **Patrons & Staff?**

- Most people don't realize they interact with it everyday
- We don't want the digital divide to grow even wider
- It is becoming a career skill people need to know and changing the way we work
- To avoid misinformation
- Grow support for responsible AI
- To protect privacy



AI & Library Roles

Non-Managerial Positions	Middle Management	Administration	Senior Leadership
<ul style="list-style-type: none">• Pages• Clerks• Information Assistants	<ul style="list-style-type: none">• Library Managers• Librarians• Specialists	<ul style="list-style-type: none">• IT / Digital• HR• Legal• Procurement	<ul style="list-style-type: none">• Trustees• CEO• VP• Directors
<ul style="list-style-type: none">• Get familiar with all tools for automated tasks• Practice better prompt techniques• Seek professional development• Understand privacy, security & other ethical concerns	<ul style="list-style-type: none">• Evaluate solutions for team productivity & workflow optimization• Learn from other library institutions using AI• Ensure use of tools align with business goals & values	<ul style="list-style-type: none">• Assess scalability, security & compliance• Establish ethics policies, regulations & governance• Pay close attention to copyright cases• Learn from city, state and federal agencies	<ul style="list-style-type: none">• Determine reason for wanting to integrate AU solutions (cost effectiveness, efficiencies)• Set strategy & align vision with organizational objectives• Foster an AI ready culture

Overall Recommendations



NotebookLM



Midjourney



Resources

Sites

[AI Test for Older Adults](#) by AARP

[Database of AI Tools](#) by Futurepedia.io

[AI Literacy Lessons Grade 6-12](#) by CommonSense.org

[AI & The Future of Teaching and Learning Report](#) by The Dept. of Ed.

[AI Creation Tool for Girls](#) by GirlsJam.ai

[How AI Is Trained](#) by Google QuickDraw

[Real or AI Quiz](#) - by Britannica Education

Podcasts & Youtubes

[Hard Fork](#) by NY Times

[Machine Learning Street Talk \(MLST\)](#)

Books

Brave New Worlds: How AI Will Revolutionize Education by Salman Khan

Teaching with AI: A Practical Guide to a new Era of Human Learning by Jose Antonio Bowen & C. Edward Watson

Coded Bias by Dr. Joy Buolamwini

Unmasking AI by Dr. Joy Buolamwini

Weapons of Math Destruction by Cathy O'Neill

Algorithms of Oppression by Safiya Noble

Thank you!

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