



PROVIDING
*Preserving
Arizona* ACCESS
*Arizona State Library,
Archives, & Public Records*

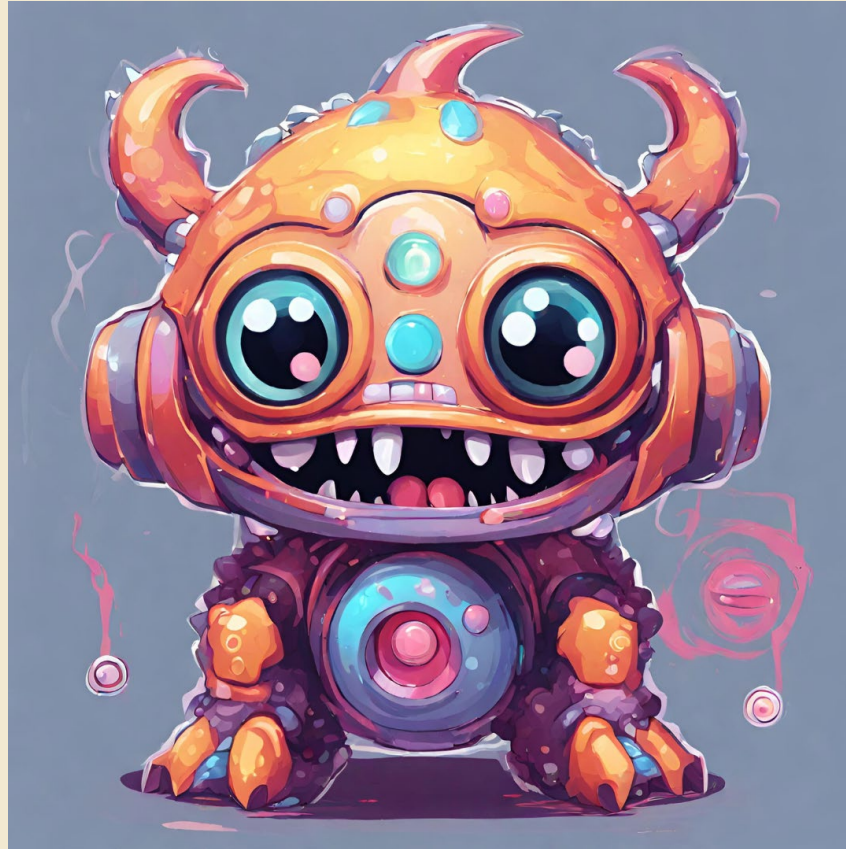


The Robots Will (probably) Not Replace Us

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Introduction



“Cute AI Monster” – Canva

Agenda and Objectives

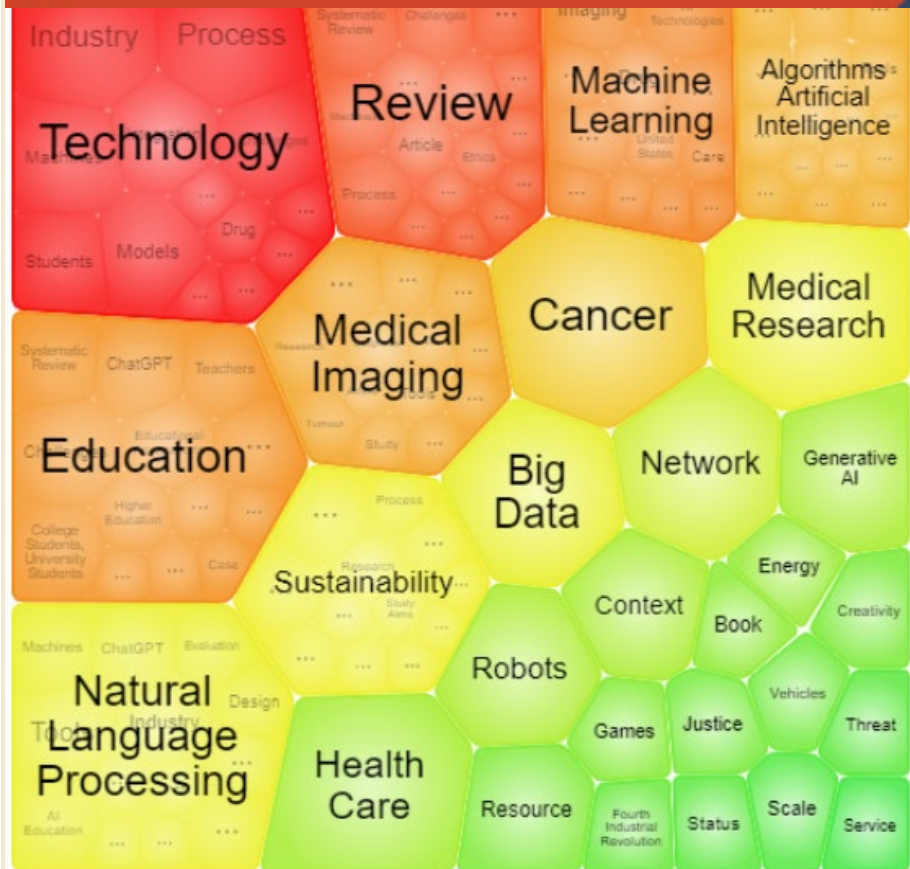


- History and terminology
- Applications for libraries
- Limitations and risks of AI
- Implications for the future

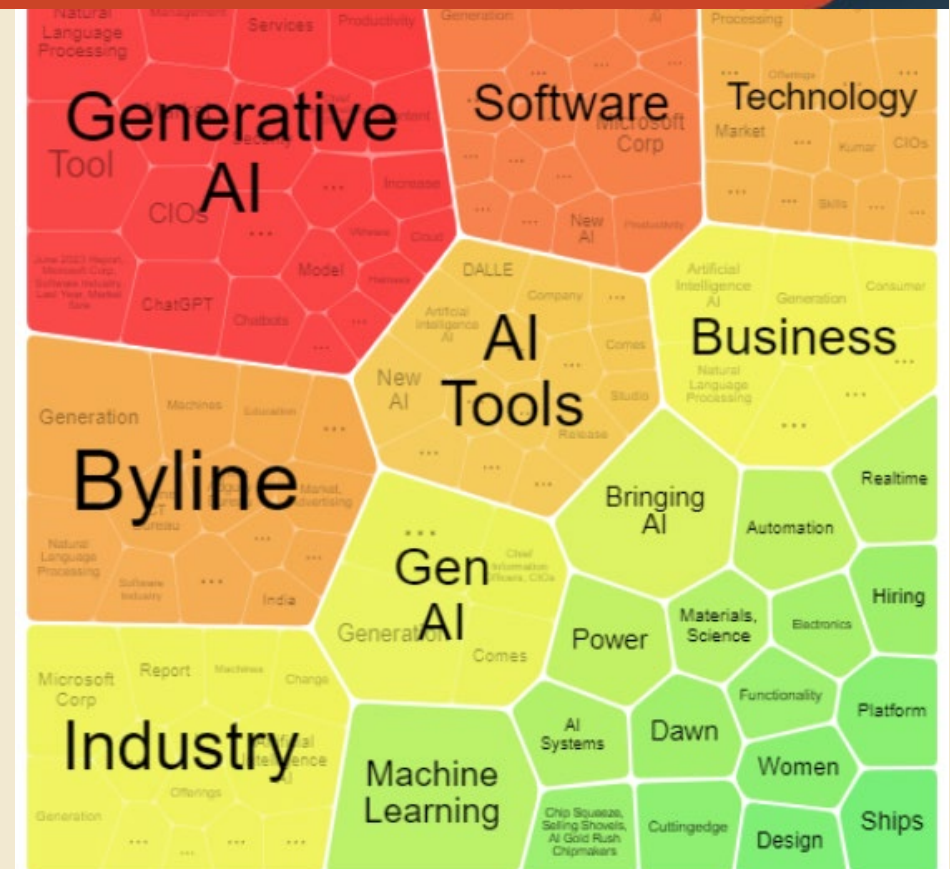
“Child looking at a book display” – Canva

AI in Gale Databases

GALE ACADEMIC ONEFILE



GALE GENERAL ONEFILE



What is AI?



Definitions

- **AI : Artificial Intelligence**

- A field of computer science aimed at creating machines that mimic human intelligence.
- Specific tasks

Examples

- More than you realize

- **AGI : Artificial General Intelligence**

- Theoretical
- Can understand, learn and apply its intelligence to any intellectual task that a human being can do.

Examples

- HAL, Skynet, Scarlett Johansson in Her (2013)

Definitions

Machine Learning

- Teaching computers to perform tasks, make decisions, or predictions
- Uses algorithms to learn patterns

Examples

- Email filter that learns to distinguish between spam and non-spam emails

Natural Language Processing

- Combination of computer science, AI, and linguistics.
- Enables computers to understand, interpret and generate human language in a valuable way.

Examples

- Voice assistant like Cortana or Siri

Definitions

Large Language Model

- AI Model trained on vast amount of data
- When given a prompt or question, it generates a response based

Example

- ChatGPT
- Bard

Generative AI

- After training Creates new content in the form of text, images, music, and voice
- Variable quality

Example

- Dall-E
- Midjourney
- Stable Diffusion

Data Quality

Garbage In, Garbage Out

“The quality of output is determined by the quality of input” – ChatGPT

- **Bias**
- **Accuracy**
- **Relevance**

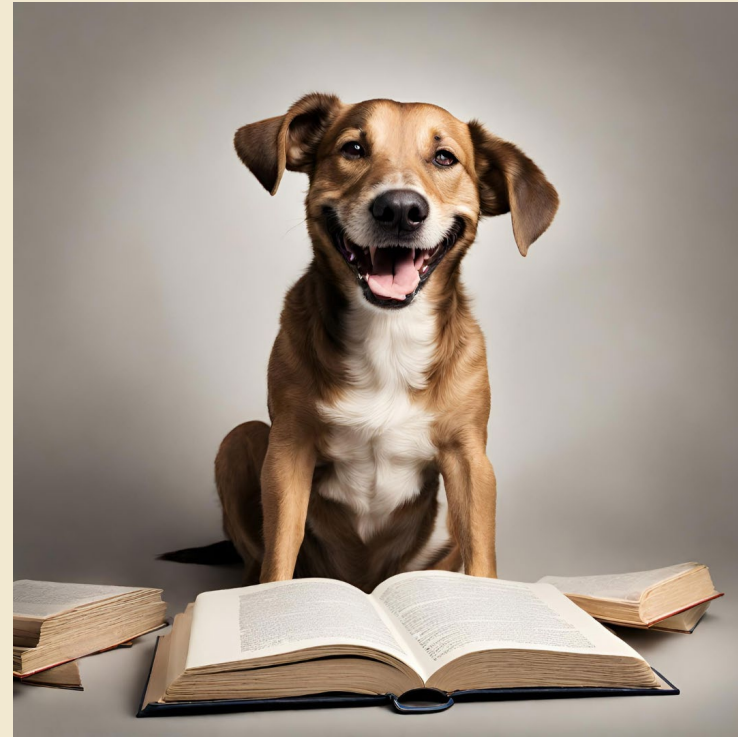


“Trash can with a face” - Canva

Using AI Tools for Libraries



Canva Text to Image tool



“Dog reading a book and laughing”

Limitations



“Woman eating a salad and laughing” – Canva 6/2023



Limitations



Woman eating a salad and laughing” – Canva 10/2023

Limitations



“Hand with engagement ring” - Canva

Dall-E

MH

Please create a photorealistic image of a black lab dog, wearing a cape, standing on its hind legs to peer inside a mail box on a typical suburban street in Arizona.

“Photo of a black labrador with a green cape, standing tall on its hind paws, intently looking into a mailbox on a typical Arizona street with sand-colored houses and desert vegetation around.”



Dall-E



“Photo of a young African-American woman with curly black hair, wearing a yellow summer dress, seated in an outdoor cafe. She is laughing heartily while taking a bite from a colorful salad. Sunlight filters through the trees, casting dappled shadows on the table which holds a glass of iced tea beside the salad plate.”



“Photorealistic hand with engagement ring”
– DALL-E 3

ChatGPT



Examples

"Explain quantum computing in simple terms"

"Got any creative ideas for a 10 year old's birthday?"

"How do I make an HTTP request in Javascript?"



Capabilities

Remembers what user said earlier in the conversation

Allows user to provide follow-up corrections

Trained to decline inappropriate requests



Limitations

May occasionally generate incorrect information

May occasionally produce harmful instructions or biased content

Limited knowledge of world and events after 2021

ChatGPT & Libraries

ChatGPT Suggestions for how libraries can use AI

- a. Data management
- b. Library collections – usage analytics, summaries, readers' advisory
- c. Social media and marketing
- d. Instructional design/training
- e. Chatbots and reference






“Librarian ” - Canva

ChatGPT & Social Media



Hello. I would like to use this chat to generate social media posts about Arizona libraries



Hi! I'd be happy to help you generate social media posts about Arizona libraries. What kind of information would you like to highlight in your posts?   



National library week



Great! Here are some social media posts you could use to celebrate National Library Week in Arizona: 📄 👍 💬

1. Happy National Library Week, Arizona! Let's take a moment to thank our local libraries for all they do to support our communities. From providing access to information and resources, to hosting events and programs for all ages, libraries play a vital role in our society. #NationalLibraryWeek #ArizonaLibraries
2. Did you know that Arizona is home to over 300 public libraries? This National Library Week, celebrate the power of libraries to connect us to the world and to each other. Whether you're looking for a good book, a safe space to study, or a fun family event, your local library has something for everyone. #NationalLibraryWeek #ArizonaLibraries
3. This National Library Week, show your love for Arizona libraries by sharing your favorite library memories and resources. From storytime to summer reading programs, libraries have the power to transform lives and build communities. Let's give them the recognition they deserve! #NationalLibraryWeek #ArizonaLibraries
4. Happy National Library Week, Arizona! Whether you're a student, a researcher, or just a lover of books, your local library has everything you need to succeed. From digital resources to in-person support, librarians are here to help you achieve your goals. Let's celebrate the amazing work they do every day! #NationalLibraryWeek #ArizonaLibraries
5. Libraries are more than just a place to borrow books – they're a hub of learning, creativity, and community. This National Library Week, let's recognize the incredible impact that Arizona libraries have on our lives and our society. Thank you to all the librarians, staff, and volunteers who make our libraries possible! #NationalLibraryWeek #ArizonaLibraries

ChatGPT demo

<https://chat.openai.com/>

Library Policy Warehouse demo



Limitations and Risks

- **Misinformation & Disinformation**
 - Hallucinations
 - Deepfakes
 - Incomplete or biased data
- **Ethical Concerns**
 - Privacy
 - Data protection
 - Intellectual property
- **Existential Threats**



“AI Monster” – Canva

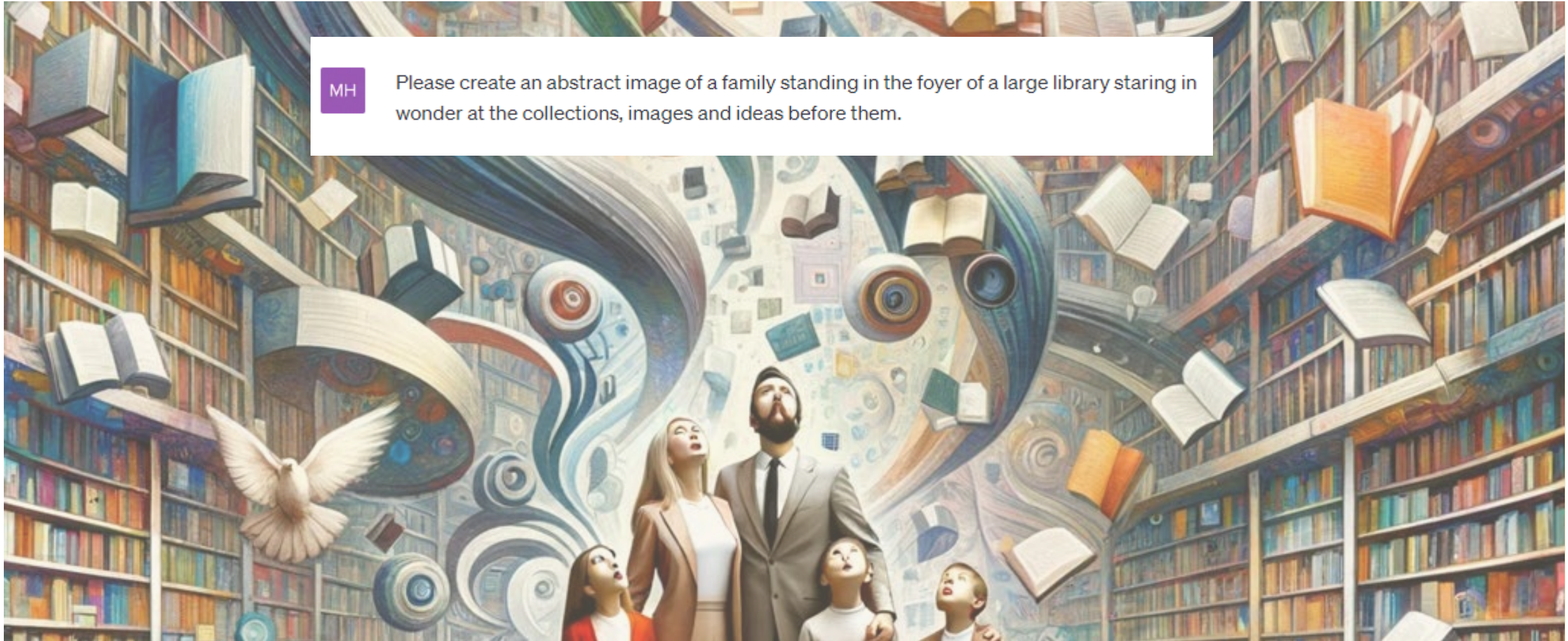
IMPLICATIONS

AI is a fast-evolving technology with great potential to make workers more productive, to make firms more efficient, and to spur innovations in new products and services. At the same time, AI can also be used to automate existing jobs and exacerbate inequality, and it can lead to discrimination against workers. While previous technological advances in automation have tended to affect “routine” tasks, AI has the potential to automate “nonroutine” tasks, exposing large new swaths of the workforce to potential disruption. The challenge for policymakers is to foster progress and innovation in AI while shielding workers and consumers from potential types of harm that could arise. Parts I and II of this report introduce AI and document its widespread adoption in the European Union and the United States; part III focuses on AI’s impact on labor; part IV contains case studies on hiring and logistics; part V concludes.

Conclusion

MH

Please create an abstract image of a family standing in the foyer of a large library staring in wonder at the collections, images and ideas before them.



Questions?

Help us identify future AI Training Topics



<https://azsos.libwizard.com/f/aitraining>