



Libraries, AI and the messy middle

Versions of this presentation were presented as keynotes at VILSC 24 and the California State Library April 2024. See next page for details.

Lorcan Dempsey

LorcanD@uw.edu

Professor of Practice
**University of Washington,
Information School**

California AI Libraries Summit

California State
Library, Sacramento

26 April 2024



Vancouver Island Library Staff Conference 2024

University of Victoria,
Victoria

3 May 2024





AI

Posts about evolving AI story and its implications for libraries.

7 posts

AI, OpenAI and the evolving AI environment

For a few days recently, the news was dominated by reports of organizational upheaval at OpenAI. Here are some reflections on what happened, with some connections to library topics.

Dec 17, 2023 / 12 min read

Using a custom GPT to ask about collections and collaboration

OpenAI now allows you to develop custom chatbots which use the power of GPT4 but can be tailored to work with your data and carry out particular actions. I discuss them in general and introduce an example built on some of my own publications.

Dec 8, 2023 / 9 min read

AI ... and the rhinoceros in the room redux

Understanding the discussion about AI benefits from hands-on experience of tools and services.

Dec 3, 2023 / 6 min read

Generative AI and libraries: seven contexts

Libraries are engaging with AI in their educational, service and policy work. This post discusses seven contexts in which that work is taking place.

Nov 12, 2023 / 30 min read

Generative AI, scholarly and cultural language models, and the return of content

AI momentum continues to grow, and we are seeing more applications in the scholarly and cultural spaces. Several organizations have been creating specialist large language models based on reservoirs of curated scientific and cultural data.

Jun 28, 2023 / 22 min read

Generative AI and large language models: background and contexts


The promise and challenge of Generative AI is now central. This is a summary overview of some of the major directions and issues, acknowledging that things are moving very quickly. I intend it as background to later posts about library implications and developments.

May 24, 2023 / 49 min read



Caveat


- * Disappointing results coexist with massive hype and investment.
- * Technologies deployed at scale have both ‘productive and problematic’* outcomes.
- * Generative AI has limitations. What is next?




Humorous icebreaker

 ChatGPT 


 Libraries: Collaboratio...

 Dimensions Research ...


 UX Design Mentor


 Explore GPTs

Today

AI Library Joke Icebreaker ... 

Yesterday

 Add Team workspace
Collaborate on a Team plan

 lorcan dempsey

ChatGPT 4 ▾



You

I am talking about ai at a library conference. can you provide me with a joke as an icebreaker?



ChatGPT



Sure, how about this one:


"Why did the librarian get along so well with the AI? Because both have a lot of 'search history'!"





Message ChatGPT...




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ChatGPT

Sure, how about this one:

"Why did the librarian get along so well with the AI? Because both have a lot of 'search history'!"



Feel free to use this joke to break the ice and get your audience smiling!

< 12 / 12 >    



Message ChatGPT...



Yes! The 12th attempt!

1. BACKGROUND

**2. ARTIFICIAL
INTELLIGENCE**

3. LIBRARIES



1. BACKGROUND

Some observations on
the current AI
environment



Examples

An AI-controlled F16 has performed its first ever dogfight with a human pilot, coming within 2,000 feet of each other at 1,200 miles per hour

News By [Andy Edser](#) published 13 hours ago

Given previous simulated results, my money's on the robot coming out on top.

[f](#) [x](#) [t](#) [p](#) [r](#) [e](#) [c](#) [o](#) [m](#) [m](#) [e](#) [n](#) [t](#) [s](#) COMMENTS



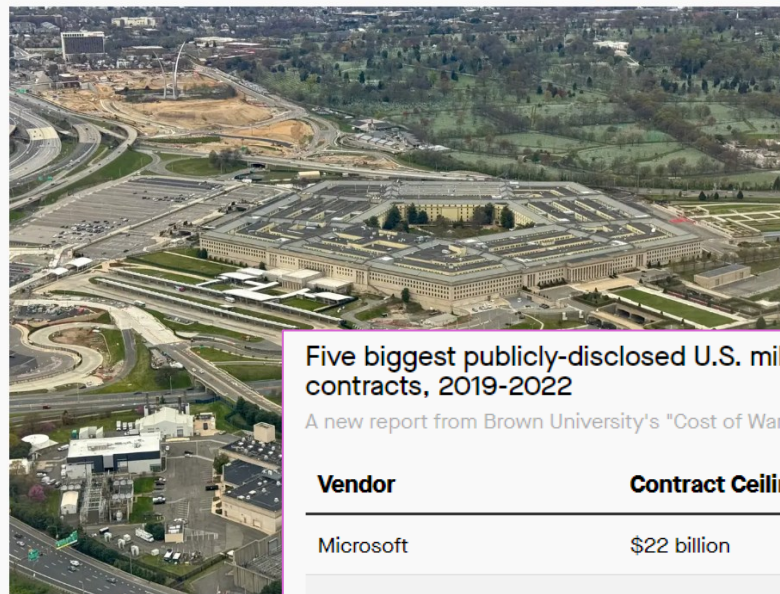
(Image credit: DARPAtv)

TECH SPIES

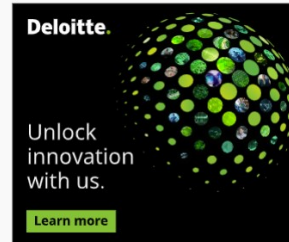
The Pentagon is spending billions on Big Tech and Silicon Valley startups as it goes all-in on AI

The Department of Defense and U.S. intelligence communities awarded \$53 billion in contracts to major tech firms over a three-year period

By [Laura Bratton](#) Published Yesterday



An aerial view of the Pentagon. Photo: Daniel Slim/AFP



Five biggest publicly-disclosed U.S. military and intelligence agency tech contracts, 2019-2022

A new report from Brown University's "Cost of War" project breaks down the largest tech contracts.

Vendor	Contract Ceiling	Buyer
Microsoft	\$22 billion	U.S. Army
Amazon, Microsoft, Google, Oracle, IBM	'Tens of billions'	NSA
Amazon	\$10 billion	CIA
Amazon, Microsoft, Google, Oracle	\$9 billion	Department of Defense
Microsoft	\$1.76 billion	Department of Defense

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(Image credit: DARPA tv)

What could go wrong?

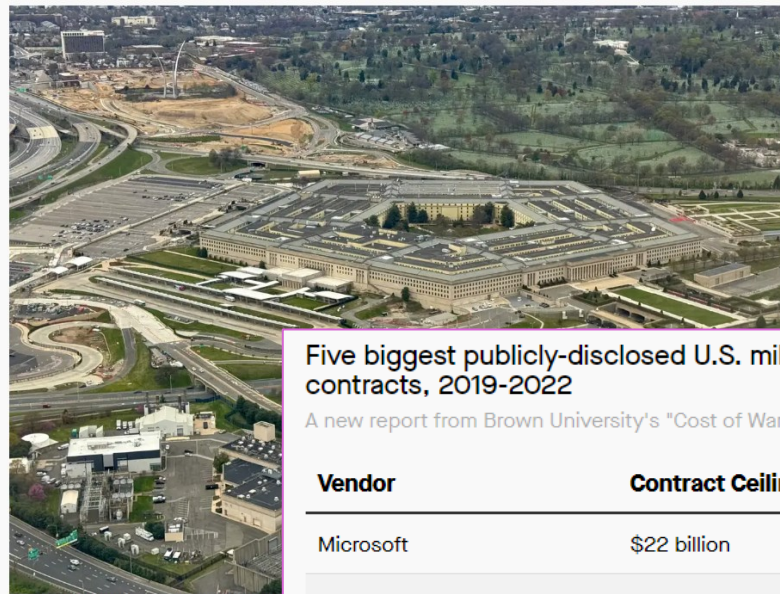


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Let me help
you with that.

Every search
box will be AI-
enabled.

Assistants
everywhere.

Editor

Editor Score **100%**

Formal writing

Corrections

Spelling

Grammar

Refinements

Clarity

Conciseness

Punctuation Conventions

Vocabulary

Similarity

4% of your text is similar to online sources.

Similarities reviewed 0 / 2

Insights

Document stats

Give feedback to Microsoft

Tell us what you think about Editor

Chat Compose

Protected

www.wikipedia.org

2 design.zemniimages.info +2 more

You

any details on 4604 sth morgan street seattle

Copilot

Sure, here are the details for 4604 S Morgan St, Seattle, WA 98118:

- It's a charming, remodeled **Craftsman** style home located close to Columbia City & Light Rail ¹ ².
- The home is immersed in natural light with tall ceilings & modern barn doors to the master suite & 2nd bedroom ¹ ².
- The kitchen features a cool glass backsplash that invites connection with a huge new back deck ¹ ².
- The home is a **2 bed, 2 bath** property with a size of **920 square feet** ³.
- It was built in **1910** and last sold on **July 31, 2018**, for **\$481,000** ³.
- The lot size is **4,704 square feet** ¹.
- The home is currently not for sale ³.

Please note that this information might have changed after my last update in 2021. You may want to check the latest details on a real estate website.

Learn more

1 R redfin.com

2 realtor.com

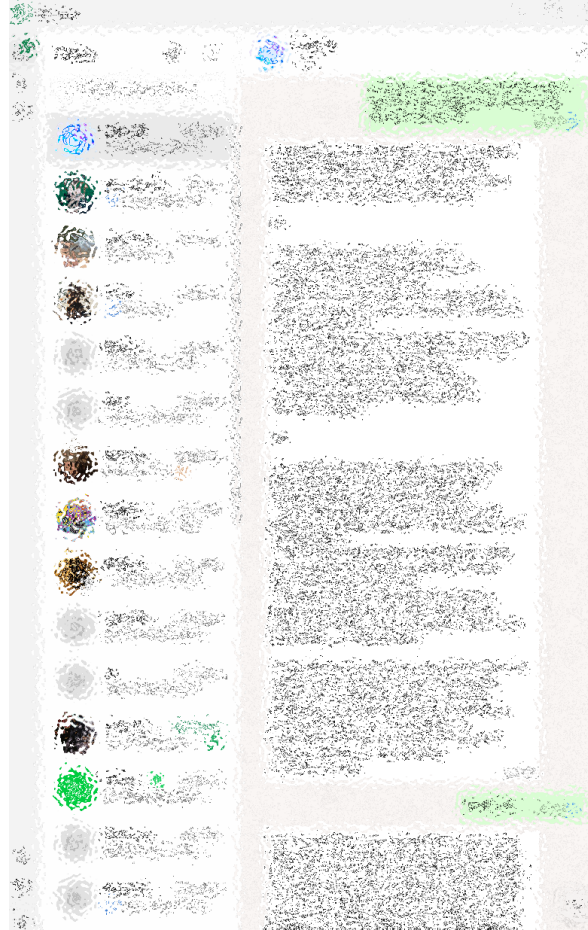
3 zillow.com

2 of 30 responses

Want a free Chatbot with that?

Meta

The new voice assistant?



can you talk to me about differences in how the irish diaspora
perceived in the US and the UK 3:08 PM

A fascinating topic! The Irish diaspora is indeed perceived differently in the US and the UK, reflecting unique historical, cultural, and social contexts. Here are some key differences:

US:

- The Irish diaspora in the US is often romanticized, with a strong emphasis on nostalgia and cultural heritage.
- Irish Americans are seen as a model minority, with many achieving success in politics, business, and entertainment.
- The US Irish diaspora has maintained strong ties to Ireland, with many organizations and events celebrating Irish culture and identity.
- The Irish American experience is often associated with upward mobility and the "American Dream."

UK:

- In contrast, the Irish diaspora in the UK has historically faced more discrimination and marginalization, particularly in England.
- Irish immigrants faced economic and social challenges, leading to higher rates of poverty and unemployment.
- The Troubles in Northern Ireland (1968-1998) also contributed to tensions and stereotypes about Irish people in the UK.
- However, in recent years, there has been a growing recognition and celebration of Irish culture and identity in the UK, particularly in cities like London and Manchester.

These differences reflect the unique historical and cultural contexts of the US and UK, including factors like immigration policies, economic conditions, and political tensions. Nonetheless, the Irish diaspora has made significant contributions to both countries, shaping their cultures, economies, and societies in profound ways.

3:08 PM

Drug discovery .

And ...

Ozempic profits are helping fund a new Nvidia-powered AI supercomputer



OLESYA DMITRACOVA, CNN
March 20, 2024 at 4:16 AM





Sergei Gapon/AFP/Getty Images

“We believe very profoundly at Moderna that ChatGPT and what OpenAI is doing is going to change the world. We’re looking at every business process—from legal, to research, to manufacturing, to commercial—and thinking about how to redesign them with AI.”

Stéphane Bancel, CEO of Moderna

Jobs everywhere





Careers

Director, Data, Analytics, and Artificial Intelligence (AI)

Location: Remote


ITHAKA's mission is to expand access to knowledge and education around the world. Our services — Artstor, JSTOR, Portico, and Ithaka S+R — enable people everywhere to learn, to grow, and to overcome historical barriers to education. In carrying out our mission, as employees we feel a deep responsibility to each other and our well-being, and are committed to building and sustaining a diverse, equitable, and inclusive workplace.

Responsibilities

The Director, Data, Analytics, and Artificial Intelligence (AI) will be a key executive leadership role responsible for setting the strategy and direction of our data engineering, analytics, and AI initiatives. You will oversee the development and implementation of data-driven solutions that help us reach our business goals, ensuring that our data practices are innovative, efficient, and aligned with industry best practices.


As Director of Data, Analytics and AI, you will create a vision and drive the execution of the organization's use of our data on JSTOR, ITHAKA's research platform product, and Portico, ITHAKA's digital preservation service. In this role you will:

- Lead the creation and execution of a comprehensive data vision and strategy, encompassing data infrastructure, machine learning/AI, predictive and prescriptive analytics, and governance to support ITHAKA's mission and goals.



Associate Director: AI and Ideas Adoption

The University of Manchester Library



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The genie is not going back in the bottle

Broad-based use
and
experimentation

Major investment

Prompt:

Draw me a picture in the style of picasso. it should express the concept: the genie cannot be put back in the bottle



Response:

Here's the image, inspired by the early 20th-century cubism style, depicting the concept "the genie cannot be put back in the bottle." Let me know what you think!

Me:

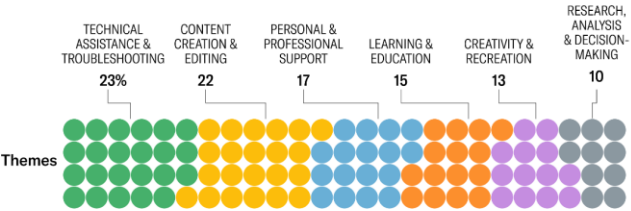
I hate all these AI-generated images everywhere.



**Using for
lots of
things**

How People Are Using GenAI

Have people found ways for generative AI to help lighten their workloads, increase their productivity, or think through problems in new ways? To understand how individuals are using the technology, researchers mined web forums like Quora and Reddit, filtering through tens of thousands of posts to identify 100 different use-case categories, which they then organized into six themes.



Categories

- | | | |
|-------------------------------------|---------------------------------------|----------------------------------|
| 1 Generating ideas | 36 Critique & counterargument | 71 With MS Office apps |
| 2 Therapy/companionship | 37 Knowledge checks | 72 Understanding movie plots |
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| 5 Exploring topics of interest | 40 Cleaning up notes | 75 Healthier living |
| 6 Fun & nonsense | 41 Explaining legalese | 76 Preparing for meetings |
| 7 Troubleshooting | 42 Spotting logical fallacies | 77 Explaining idioms |
| 8 Enhanced learning | 43 Creating a holiday itinerary | 78 UX/user story writing |
| 9 Personalized learning | 44 Editing a legal document | 79 Suggesting code libraries |
| 10 General advice | 45 Business advice | 80 Writing poems |
| 11 Drafting emails | 46 Replying to emails | 81 Work buddy |
| 12 Simple explainers | 47 Generating code (pros) | 82 Editing video transcript |
| 13 Writing/editing CV/résumé | 48 Getting past writer's block | 83 Motivating yourself |
| 14 Excel formulas | 49 Generating a lesson plan | 84 Packing for travel |
| 15 Adjusting tone of email | 50 Rubber ducking (debugging code) | 85 Sampling data |
| 16 Evaluating copy | 51 Negotiating a deal | 86 Technical use of software |
| 17 Enhanced decision-making | 52 Fact-checking | 87 For people with ADHD |
| 18 Language translation | 53 Career advice | 88 Ad/marketing copy |
| 19 Improving code (pros) | 54 Practicing difficult conversations | 89 Special needs education |
| 20 Drafting a document | 55 Seeing blind spots | 90 Spotting anomalies |
| 21 Reconciling personal disputes | 56 Data entry | 91 Building a business plan |
| 22 Summarizing content | 57 Legal research | 92 Refining prompts |
| 23 Making a complaint | 58 Writing job postings | 93 For entrepreneurs/startups |
| 24 Recommending movies, books, etc. | 59 Strengthening an argument | 94 Building a website/app |
| 25 Cooking with what you have | 60 Jumping to the useful info | 95 Writing blog posts |
| 26 Generating appraisals | 61 Generating video | 96 Writing a funding proposal |
| 27 Creativity | 62 Safe space to ask | 97 Writing a press release |
| 28 Medical advice | 63 Interpreting song lyrics | 98 Editing digital images |
| 29 Generating a legal document | 64 Dungeons & Dragons | 99 Planning workouts |
| 30 Fixing bugs in code | 65 Generating relevant images | 100 Project management |
| 31 Drafting a formal letter | 66 Data manipulation | |
| 32 Writing & editing a cover letter | 67 Homework | |
| 33 Personalized kid's story | 68 Writing social media copy | |
| 34 Explaining technical documents | 69 Translating code (pros) | |
| 35 Preparing for interviews | 70 Realistic web copy | |

How People Are Really Using GenAI

by Marc Zao-Sanders

March 19, 2024

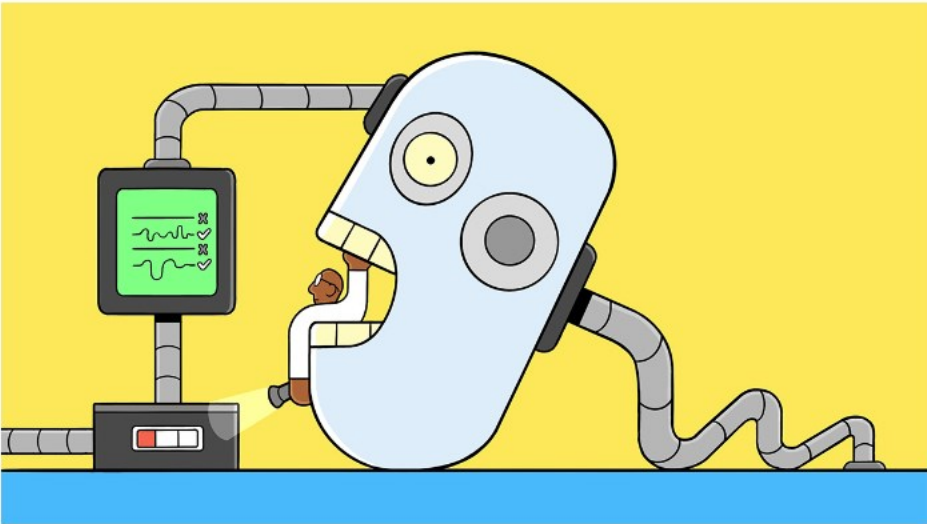


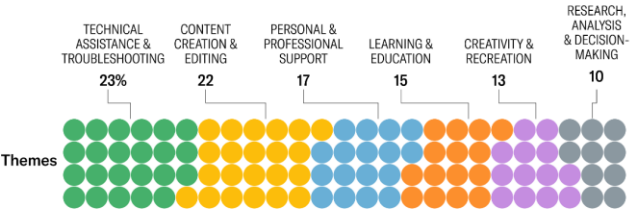
Illustration by Travis Constantine

Summary. There are many use cases for generative AI, spanning a vast number of areas of domestic and work life. Looking through thousands of comments on sites such as Reddit and Quora, the author's team found that the use of this technology is as wide-ranging as the... [more](#)

<https://hbr.org/2024/03/how-people-are-really-using-genai>

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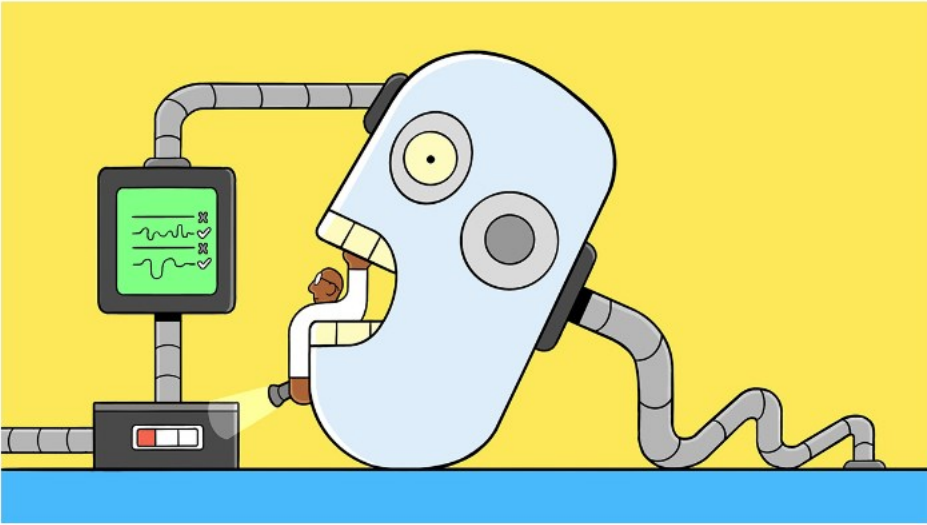
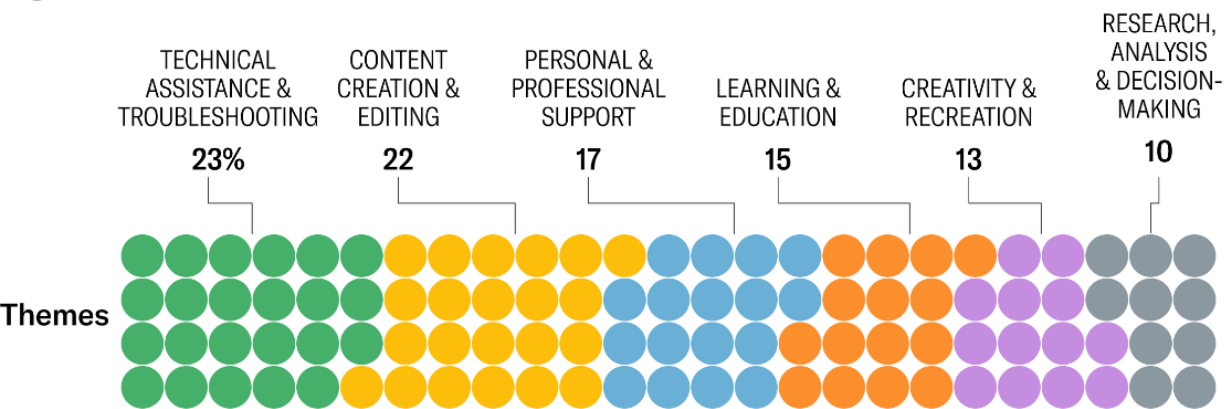


Illustration by Travis Constantine

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Editing text

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Exploring topics of interest

6

Fun & nonsense

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Troubleshooting

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Enhanced learning

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Personalized learning

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General advice

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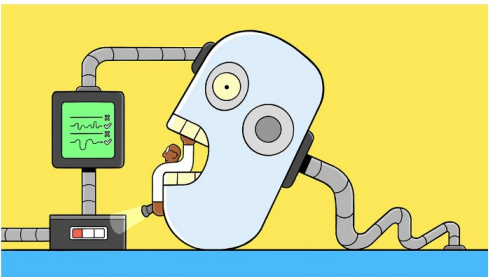


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However

We know ...

Not quite good
enough for many real-
life needs

Probabilistic
rather than
deterministic

Plausible or
'appear' right
rather than 'are'
right

Harmful results
are a feature

And ...

Labor practices

Power
consumption

Market
concentration

Further
knowledge
enclosure



2. ARTIFICIAL INTELLIGENCE

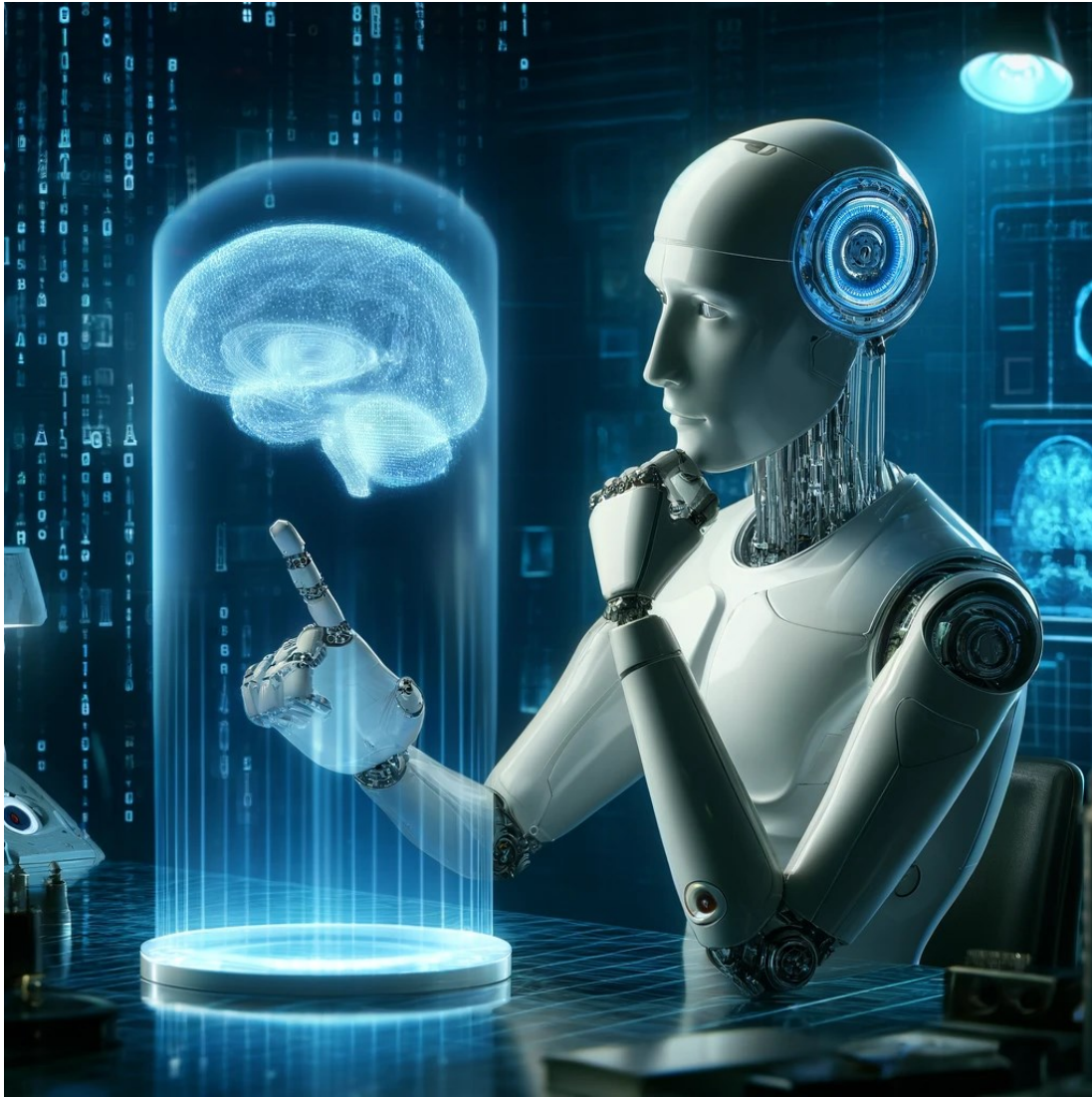
Some reflections
on AI itself



Unhelpful mental models

Artificial?

Intelligence?



“Artificial intelligence”

Prompt: Create an image which encapsulates the common view of artificial intelligence.

Response: "Here is an image that encapsulates the common view of artificial intelligence. It features a **humanoid robot** interacting with a **holographic brain**, set in a futuristic environment."

Let me know if there's anything else you'd like to explore or modify!"

The cyborg imaginary

Our general view of AI is influenced by science fiction explorations of sentience, identity or the independent evolution of synthetic life forms which may bear little relation to the current situation.

This distorts the conversation.



Unhelpful polarity of views

Fomented by click-bait and sci-fi
view of the world.

A New Age of Enlightenment? A New Threat to Humanity?: The Impact of Artificial Intelligence by 2040

Enlightenment vs Threat?

A binary contrast of
[1] **commercial opportunity** and **techno-optimism** and
[2] **existential risk** posed by unstable or out of control systems

deflects attention from **critical engagement** with current deployment.


A focus on AGI moves the conversation to **an undefined future state** and **away from current ethical, business and service choices**.



**Choices such
as ...**

The messy middle

- * Composition and transparency of training collections
- * Hidden labor
- * Advocating for public interest of creators and consumers
- * Supporting diverse ecosystem
- * Understanding vendor offerings
- * Licensing terms and conditions
- * Developing research skills and metaliteracies
- * Understanding and communicating organizational implications



Large language models are not databases or search engines

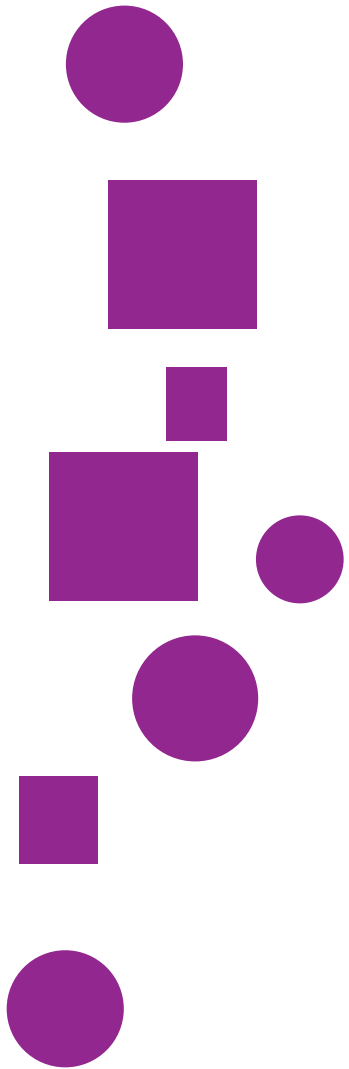
“curation by statistics”*

* Models all the way down. <https://knowingmachines.org/models-all-the-way>



At first, an opportunistic gathering of web crawls,
ebook collections, etc.

**Knowledge
representations**



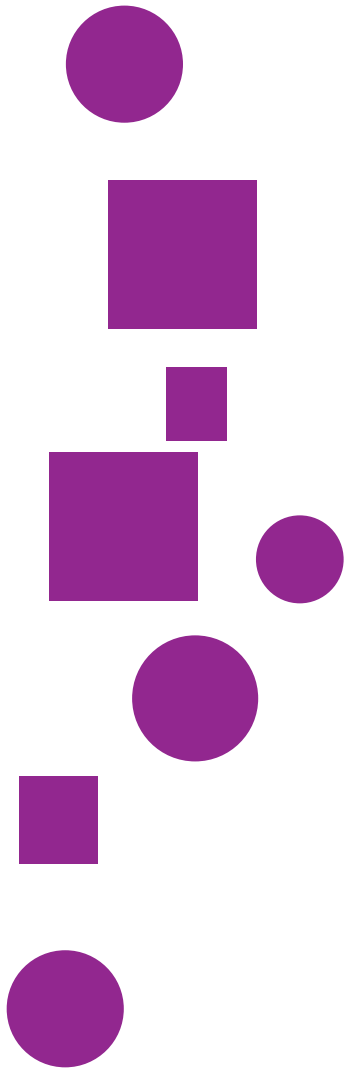
**Knowledge
representations**

Training
collections

*

Pre-trained

LLM
Statistical
model



**Knowledge
representations**

Training
collections

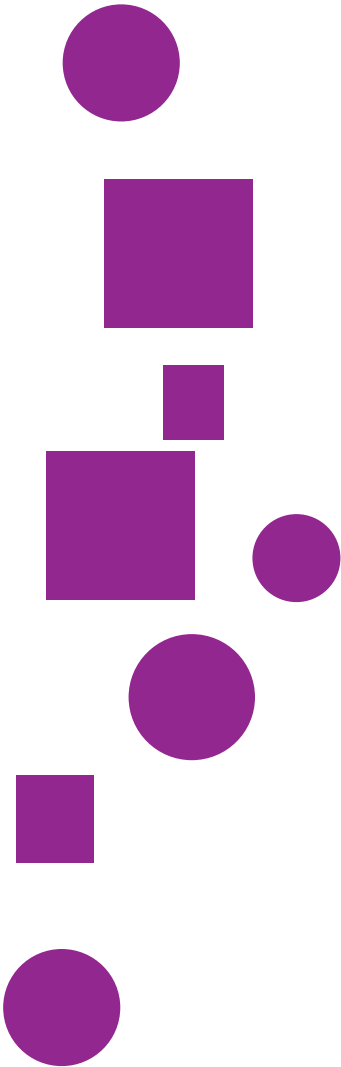
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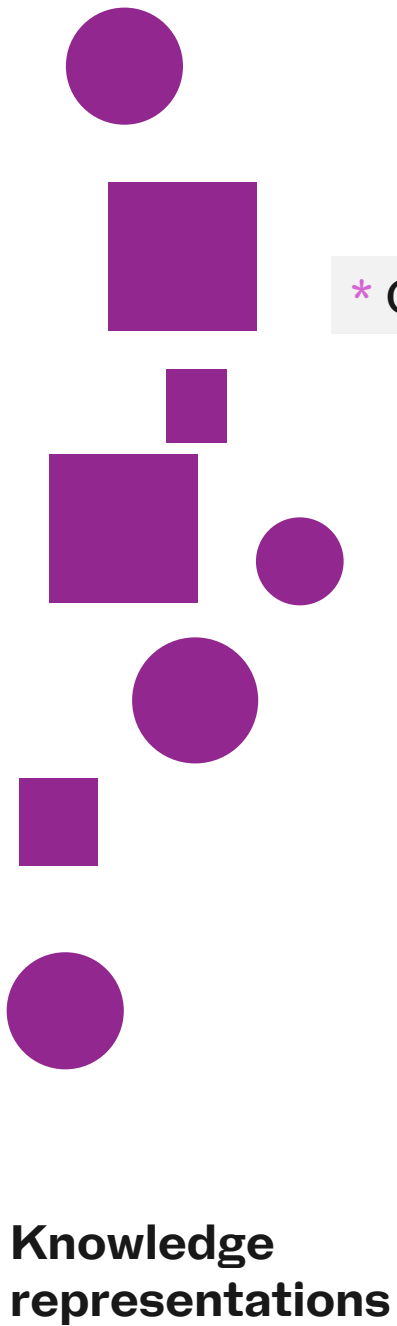
* Generate

← Prompt

Applications



**New synthetic
Knowledge
representations**



* Collected

Training collections

* Pre-trained

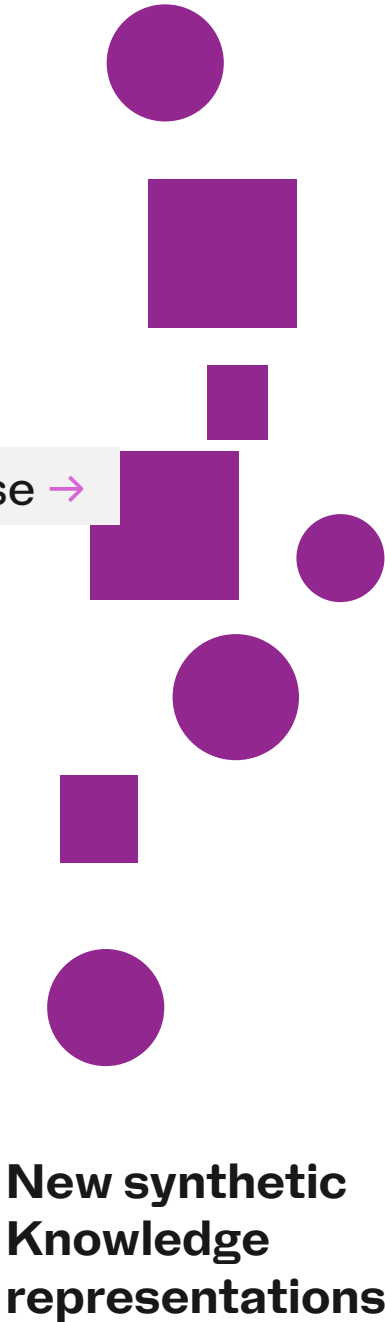
LLM
Statistical
model

* Generate

← Prompt

Applications

Response →

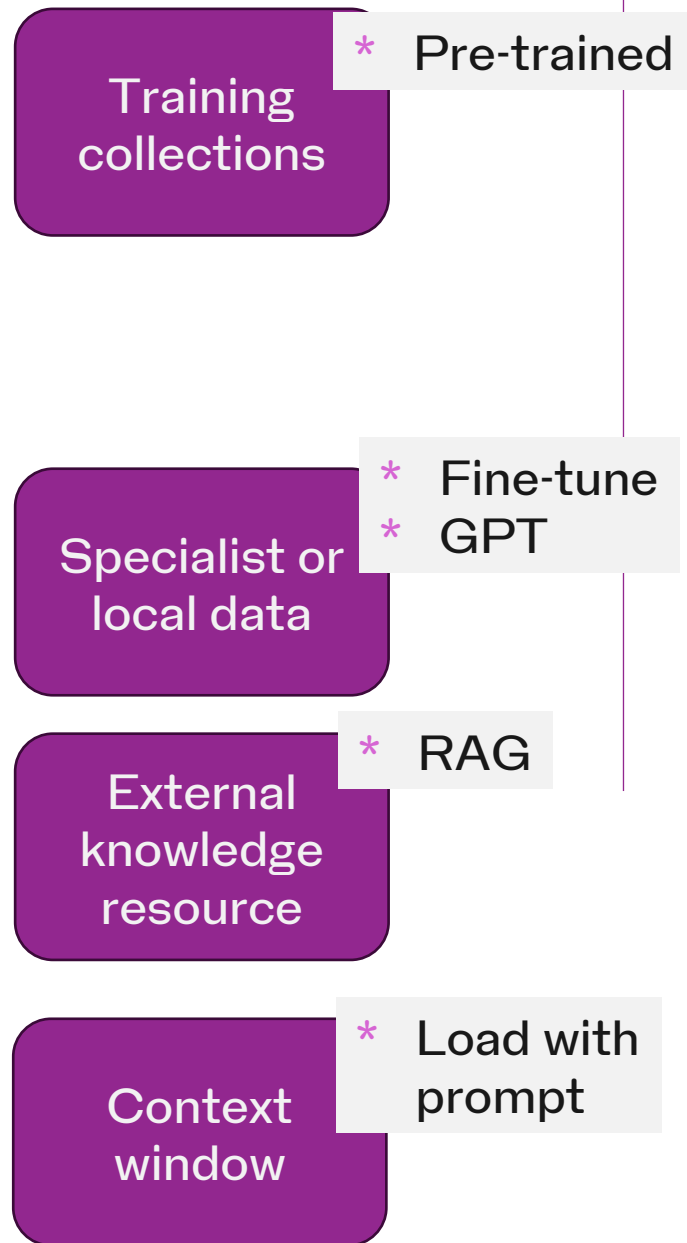


'... it's just saying things that
“sound right” based on what things
“sounded like” in its training
material.'

Stephen Wolfram



**Knowledge
representations**



LLM
Statistical
model

* Generate

← Prompt

Applications



**New synthetic
Knowledge
representations**

Specialist or
local data

- * Fine-tune
- * GPT

External
knowledge
resource


- * RAG

Context
window

- * Load with
prompt

- * Works with underlying model.
 - * Add domain or specialist knowledge.
 - * Affect behavior, tone, ...
 - * Does not address hallucinations
-
- * Results from external knowledge resource added to prompt.
 - * Supplements with current or specialist knowledge resources.
 - * Will be common in search and discovery applications.
 - * Can reduce hallucination.
-
- * Provide additional contextual information.
 - * Permits guidance and control based on specific inputs.
 - * Context window getting bigger.

Very important augmentations for specialist communities
like libraries, cultural and scholarly domains!



Retrieval augmented generation & custom GPTs



Lorcan Dempsey

Hi ... I am a librarian, writer, and adviser. I enjoy working with groups of libraries to develop shared services, products and directions. I have guided national and international cooperative and R&D programs. I have been very lucky to work for library, educational, and non-profit organizations in Ireland, the UK, the EU and the US.

I am currently *Professor of Practice* and *Distinguished Practitioner in Residence* at the Information School, University of Washington. Explore my reflections about the evolution of libraries in their social and cultural contexts in these pages.

FEATURED POSTS

Institutions



So-called soft skills are hard

So-called soft skills are important across a range of library activities. Existing trends will further amplify this importance. Describing these skills as soft may be misleading, or even damaging. They should be recognized as learnable and teachable, and should be explicitly supported and rewarded.

Mar 7, 2024 / 12 min read

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Institutions



So-called soft skills are hard

So-called soft skills are important across a range of library activities. Existing trends will further amplify this importance. Describing these skills as soft may be misleading, or even damaging. They should be recognized as learnable and teachable, and should be explicitly supported and rewarded.

Mar 7, 2024 / 12 min read

What is the inside-out collection?

This Doma... ▾



Answer

The "inside-out collection" refers to a model of library collections where the focus is on managing and disclosing unique institutional assets, such as archives, research data, and other scholarly materials produced within the institution, rather than just acquiring external resources.

Key points about the inside-out collection:

- It is contrasted with the "outside-in" collection, which is focused on acquiring and providing access to externally published materials like books and journals. 1 4
- The inside-out collection aims to make the institution's own unique digital materials, like digitized special collections or faculty

AI

AI, OpenAI and the evolving AI environment

For a few days recently, the news was dominated by reports of organizational upheaval at OpenAI. Here are some reflections on what happened, with some connections to library topics.

Dec 17, 2023 / 12 min read

Summary

7 papers analyzed

These studies suggest that collective collections in academic libraries are becoming increasingly important, with a shift towards flexible, sustainable review and alignment with institutional needs, while also facing challenges in maintaining diversity and adapting to new roles and spaces.

Consensus Meter

Not a 'Yes or No' question.
To use the Consensus Meter, try asking a simple Yes/No question.

Try: Does mindfulness improve sleep?

Copilot

7 papers analyzed

Introduction

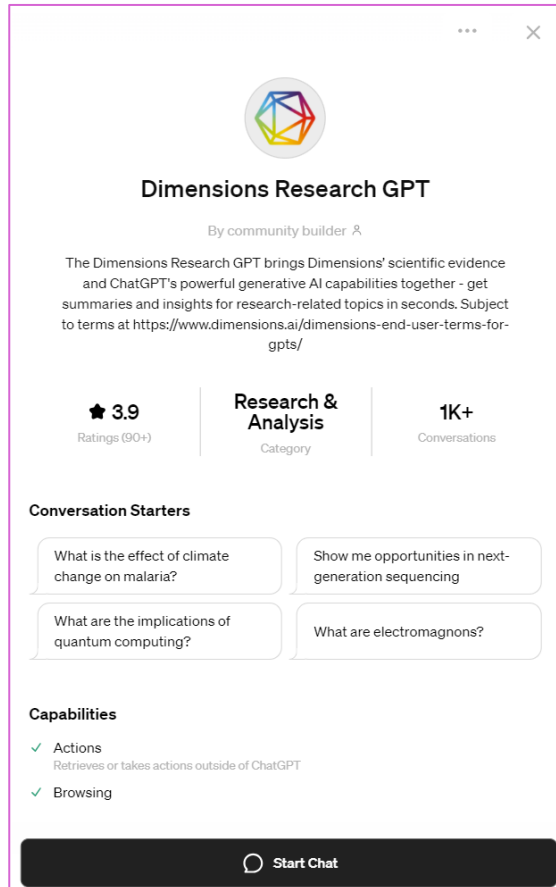
The concept of collective collections in academic libraries refers to the management and description of multiple local collections as a single, unified collection. This approach is becoming increasingly important for libraries as they adapt to changing economic conditions, technological advancements, and evolving user needs. This synthesis examines the current status and trends of collective collections in academic libraries based on recent research.

Key Insights

- Importance and Operationalization of Collective Collections:
 - Collective collections are crucial for shared print, digitization, and group-scale discovery and fulfillment, helping libraries manage resources more effectively 2.
- Economic and Collection Development Trends:
 - Economic factors have led to a reduction in the acquisition of new monographic printed materials, resulting in less diversity and more homogeneity in collections 3.
 - There is a shift towards continuous, flexible, and sustainable review of collections to align with institutional research and curricular requirements 4.
- Rightsizing and User Needs:
 - The concept of "rightsizing" involves reducing physical collections to increase library space, focusing on current user needs and positive library experiences 5.
- Digital Age and Access:
 - Libraries are increasingly focusing on special collections while aiming to provide access to a broad range of content



Find research papers. Get answers.



You

summarise lorcan dempsey's main contributions to library and information science/studies



Dimensions Research GPT



Talked to ai-api.dimensions.ai

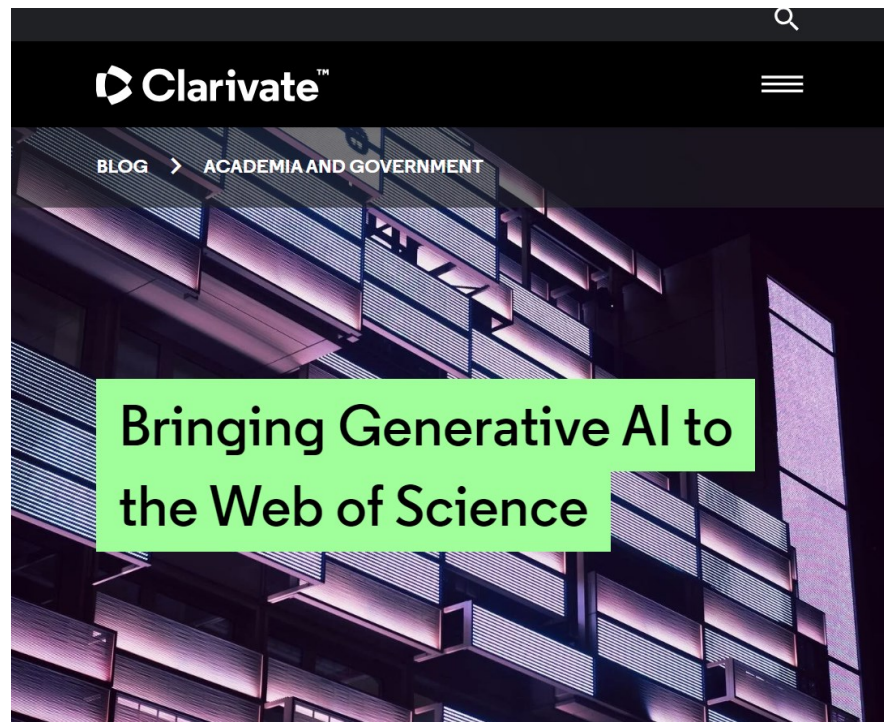
Lorcan Dempsey has made significant contributions to library and information science, especially focusing on the evolution of library services, collections, and digital environments. Through a sample of 262 publications, several key areas of Dempsey's work emerge, notably in reshaping libraries within digital contexts and the strategic adaptation of library collections to user needs.

Library Transformation and Networked Services: Dempsey's insights into how libraries are evolving in response to digital networks and services are pivotal. In *The Network Reshapes the Library*, he discusses the impact of networks on library structures and services (O'Beirne, 2015).

Collections in the Digital Age: His paper *Library collections in the life of the user* highlights the dual trend of libraries managing research outputs (inside-out collections) and facilitating access to a broad range of resources (facilitated collections), emphasizing the user's central role (Dempsey, 2016).

Future of Academic Libraries: Dempsey explores the changing role of academic libraries in *Academic Library Futures in a Diversified University System*, examining the shift from a collection-based model to a service-based model and the implications for academic libraries in a diversifying higher education landscape (Dempsey & Malpas, 2018).

In conclusion, Lorcan Dempsey's contributions span from conceptualizing the changing nature of libraries in the networked age to addressing the evolving needs of library users and the strategic redirection of library services and collections. His work underlines the ongoing transformation of libraries to meet the demands of digital scholarship and user-centered services, with a total of 262



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Press release

Launch of Scopus AI to Help Researchers Navigate the World of Research

London | January 16, 2024

Developed and tested with the research community, Scopus AI combines the world's largest database of curated scientific literature with responsible AI

 Dimensions

MENU

PUBLIC	PRIVATE	CUSTOM
Dimensions Research GPT <i>Gain fast answers based on open-access data</i>	Dimensions Research GPT Enterprise <i>Accelerate research with the full power of Dimensions data</i>	Dimensions Research GPT Enterprise <i>Create a custom research solution for answers as you need them</i>
<ul style="list-style-type: none">Publicly availableFree for all Dimensions users		

A new summarization and prospecting layer?

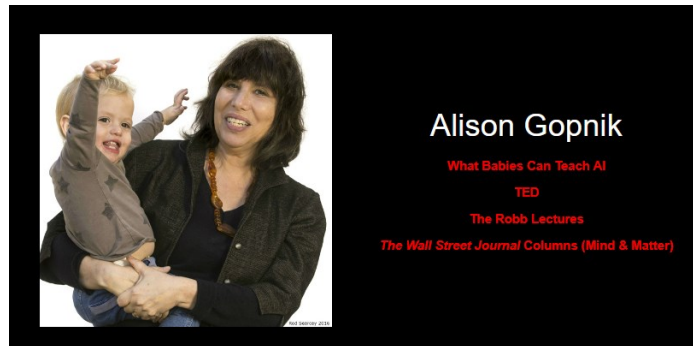
Changes how we interact with information resources and our view of what an information resource is?

Major long-term questions about the relationship between resources and LLM layer of summarization/analysis/interaction.



**A new
cultural
technology?**

“ Instead, these AI systems are what we might call cultural technologies, like writing, print, libraries, internet search engines or even language itself. They are new techniques for passing on information from one group of people to another.





Instead, these AI systems are what we might call cultural technologies, like writing, print, libraries, internet search engines or even language itself. They are new techniques for passing on information from one group of people to another. Asking whether GPT-3 or LaMDA is intelligent or knows about the world is like asking whether the University of California's library is intelligent or whether a Google search "knows" the answer to your questions. But cultural technologies can be extremely powerful—for good or ill.



Socrates famously thought that writing was a really bad idea. You couldn't have the Socratic dialogues in writing that you could in speech, he said, and people might believe things were true just because they were written down—and he was right.

“ Every past cultural technology has required new norms, rules, laws and institutions to make sure that the good outweighs the ill, from shaming liars and honoring truth-tellers to inventing fact-checkers, librarians, libel laws and privacy regulations.

Cultural technology?

Thinking about AI as a cultural technology in this way moves the conversation to the mutual interaction of behaviors and AI in emerging practices ...

... however useful it is in the short term, or however important it ultimately turns out to be.



3. LIBRARIES

The new cultural technology and ...

- * Individuals
- * Libraries
- * Library community



**Understanding
is based on
experiencing**

Coming up to speed



Prompt:
Create an image of a library.

Response:
Here is the image of a traditional library. It features high ceilings, wooden bookshelves filled with books, and a serene atmosphere with people reading under the glow of green lamps. A large stained-glass window adds a colorful light to the scene.

Response: Here is the image of a modern Scandinavian public library, designed with a minimalist aesthetic. It features large glass walls, sleek white bookshelves, and cozy seating areas, all bathed in natural light.



Prompt: Assume the persona of a scandinavian architect who has designed several flagship libraries in nordic cities. show me an image of a modern public library



Prompt: You are a young architect in Vancouver. You are ambitious to make an impact on the civic infrastructure of british columbia by designing **memorable and useful public buildings**. You are influenced by Indigenous art and culture, but are very wary of cultural appropriation. You are interested in sustainability, placemaking, the integration of nature and architecture, and integrations between libraries, parks, museums, and other facilities which support wellness and personal development. you are drawn to the mountains and the sea, and feel that the pacific northwest is a unique geo-cultural-political entity worth celebrating. Show me your mockup of the inside of a new public library in Nanaimo that you have been asked to bid on.

Experience

- * Note how the straightforward simple prompt generates an image reminiscent of the Long Room at Trinity College Dublin.
- * This library is among the most photographed in the world, and stock pictures of it commonly accompany media stories about libraries. With a basic prompt, large language models (LLMs) can provide responses that align with prevalent cultural perceptions.
- * That said, the pink dots represent anomalies in the pictures – the shapeless forms that replace the statues, and so on.
- * More detailed prompting moves the image in various directions.

Spend time experimenting

Ask about areas where you have knowledge

Suggest it adopts a persona

Refine prompt and see what happens

Give examples and see what happens

Give instructions for structure of answers

Use different tools


Try for-free services if you can

**Prompt
engineering?**



Some library topics

- * Social confidence and trust
- * Cultural synthesizers
- * Experiment



Social confidence and trust

The importance of
research skills and
metaliteracies



Counterfeit Books Are a Growing Problem, but a Solution May Be Near

By Bill Kasdorf | Feb 23, 2024

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[Comments](#)



The age of synthetic content?

Fake identities in social media, communications

Misinformation in a year of elections

Accelerated scamming, phishing

Enormous volumes of synthetic content – novels, images, music

Letters of recommendation?

Essays?

News

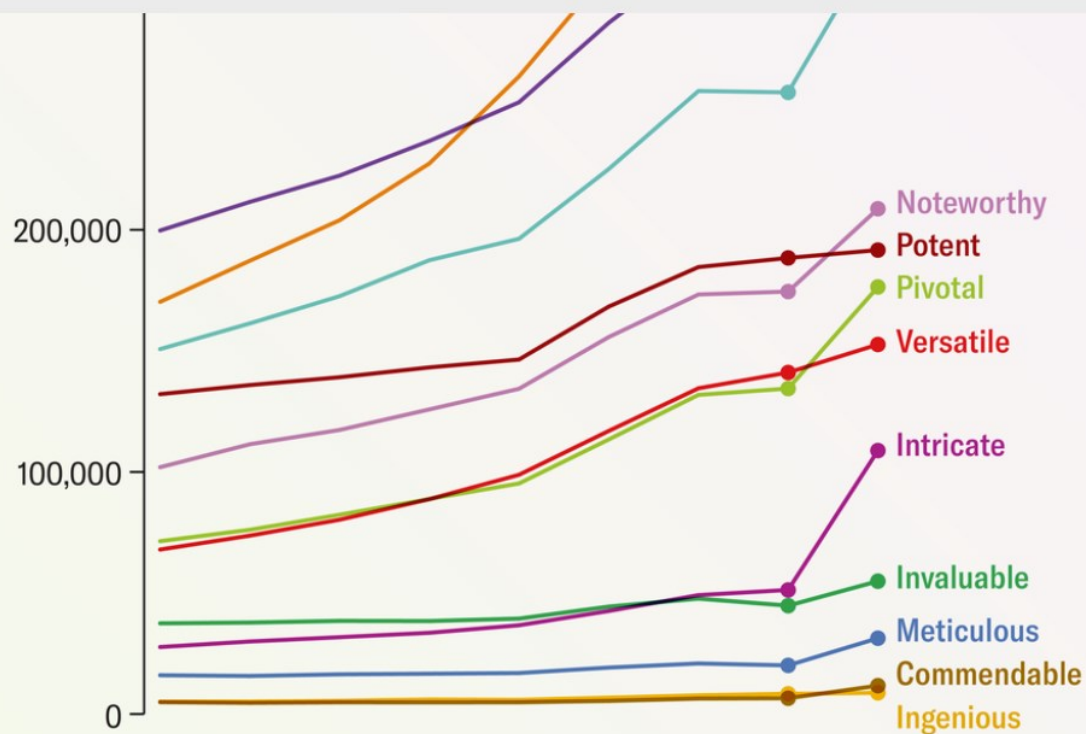
Content marketing, content marketing, content marketing

MAY 1, 2024 | 5 MIN READ

AI Chatbots Have Thoroughly Infiltrated Scientific Publishing

One percent of scientific articles published in 2023 showed signs of generative AI's potential involvement, according to a recent analysis

BY CHRIS STOKEL-WALKER



Amanda Montañez; Source: Andrew Gray

Scholarly
click bait?

Some of these tells—such as the inadvertent inclusion of “certainly, here is a possible introduction for your topic” in a recent paper in *Surfaces and Interfaces*, a journal published by Elsevier—are reasonably obvious evidence that a scientist used an AI chatbot known as a large language model (LLM). But “that’s probably only the tip of the iceberg,” says scientific integrity consultant Elisabeth Bik. (A representative of Elsevier told *Scientific American* that the publisher regrets the situation and is investigating how it could have “slipped through” the manuscript evaluation process.) In most other cases AI involvement isn’t as clear-cut, and automated AI text detectors are unreliable tools for analyzing a paper.

Copyright contrasts: public interests of consumers and creators

[Home](#) / [Blog](#) / [Training Generative AI Models on Copyrighted Works Is Fair Use](#)

Training Generative AI Models on Copyrighted Works Is Fair Use

by Katherine Klosek, Director of Information Policy and Federal Relations, Association of Research Libraries (ARL), and Marjory S. Blumenthal, Senior Policy Fellow, American Library Association (ALA) Office of Public Policy and Advocacy | January 23, 2024

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Last Updated on January 23, 2024, 4:48 pm ET

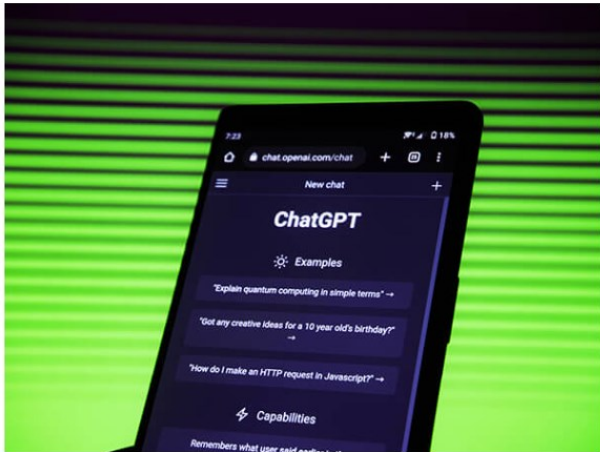


image by Mojahid Mottakin on Unsplash

ARL and ALA are founding members of the Library Copyright Alliance (LCA). ARL, ALA, and LCA are not involved in the litigation discussed in this post.

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.

Share full article



1.3K



A lawsuit by The New York Times could test the emerging legal contours of generative A.I. technologies. Sasha Maslov for The New York Times

The new research skills

- * Libraries are developing support for new research skills and LLM literacies, thinking about tools and techniques, guidelines for use in research and learning, and advice about appropriate or effective use.
- * However, beyond this, they will need to think about advice and services in a world of synthetic creation, of fabricated and fabulous communication, of programmatic consumption and adaptation of cultural and scholarly outputs, and of pervasive copilot and assistant applications.
- * This is happening at the same time as truth is individualized and contested in a polarized political and cultural environment, where the impact of malicious actors is amplified, and where creators may struggle to be visible in a network environment mediated by summarizing chatbots.
- * Advising both creators and consumers in this environment will become more complex.

Appraisal
(what to collect, or
to keep, or ..?)

Harvesting and use
of creative works,
research outputs,
data, ...

Strategies for harm
reduction

Identity

Information
confidence

Algorithmic and
LLM literacies

Rights and
opportunities as
creators

Policy
environment

Tools and
techniques for
creators, pedagogy
and research



Cultural synthesizers

- * What is the scholarly and cultural record?
- * An archival approach to collection?
- * **A small number of examples.**

Authenticity is Everything... Especially with AI

What does it mean to be real in a world full of generated images? What's going to connect with consumers who are already skeptical of what they see online? And how will creativity help you break through?

IT'S COMPLICATED...

87% of people think it's important for an image to be authentic

But what does authenticity even mean when we don't know what's real, we live in a world informed by algorithmic filters and plenty of people are distrusting the things they are seeing? We asked consumers how they'd define authenticity which validated the knottiness of everyone's feelings.

TOP 3 WAYS GLOBAL CONSUMERS DEFINE "AUTHENTICITY"

1. Something genuine, expressing one's true thoughts, feelings and experiences
2. Something that is not fake or counterfeit
3. Something that is sincere and honest

Does a preference for authenticity that aligns with these consumer definitions mean that brands should not be using AI-generated imagery? No, not necessarily. It just means that consideration and thoughtful intention on how AI-generated imagery is deployed is alongside visuals of all origins is key.



Getty images report

Weariness with synthetic images?

A desire for connection with the authentic

Intentional use

<http://reports.gettyimages.com/VisualGPS-Building-Trust-In-AI.pdf>

Media You Talk To

Discover, Make, and Sell Conversational Stories, Guides,
Conversations, and More

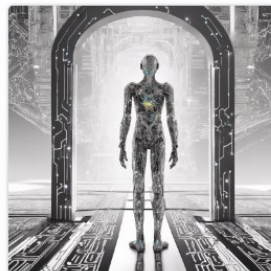
With Claude 3, ChatGPT 4, Mistral, Dall-E 3, SDXL,
and Gen AI Voices

[Get Started!](#)[Learn More](#)

Collections



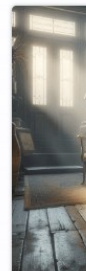
It's Political



AI Frontiers



The Great Gatsby



Personas



Giovanni Rossi



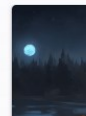
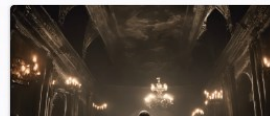
Marley M



Maggie



Stories





Nico Inzerella

Seattle WA. <https://nico-gallery.com>



Sintético
Wheat pasted AI
generated image.
21" x 30" x 1.25"
Artwork for Sale: Yes
Price/Value: \$6000.00
2023

I'm a Mexican-American artist. Preserving my family culture is important to me and I do this through my artwork. Over the past 20 years I've traveled extensively throughout Mexico and Central America taking thousands of photos. I combine photography, painting, and graphic design to create my final pieces.

AI Record:

Using Photoshop's new integrated AI. I wanted to create the exact subject matter I usually use for my artwork which is usually from photos I've taken while living abroad and traveling throughout Mexico, Central, and South America.

I prompted the AI tool with the terms indigenous, Mexican, women, loom, Oaxaca. These prompts are a replica of what my photography consist of. I received some interesting and not too real looking outputs and I create a short list but when this certain subject matter was generated I knew it was a keeper.

I collage/wheat paste the image on archive matte paper to the panel but in this case a window. After I preserve the print I then add paint, other collaged elements. Lastly, I add another layer of archival matter varnish to preserve the paint and other element.



SHARED THOUGHT

Collaborating with AI



Dive into the cutting-edge realm of AI-infused creativity. This Community Exhibit explores the fusion of art and technology through diverse, thought-provoking works investigating how AI technologies can be used in a variety of traditional mediums. View [Exhibit Catalog HERE](#).

Artists' Reception: Saturday, March 9, 5-7pm

“ So one of the potentials around machine learning is that you’re not limited to just a single output. You can create a model of whether that’s my own singing voice or whether that’s my own image or likeness, and you can allow other people to explore the logic of that model and to prompt through your world.

So it’s almost kind of like inviting people into your subjectivity, or inviting someone into your video, the video game of your art. So I think it has a lot of potential to be interesting in a kind of collaborative way with your audience. One term that we’re often using is “protocol art,” basically understanding that any work that’s made is a kind of seed for infinite generations. So we’re trying to lean into that.

“ So I trained Spawn on my voice, my singing voice, and then I fed Spawn stems from a collaborator of mine named Jlin. And so Spawn is attempting to sing Jlin’s stems through my voice. And Jlin’s music is very percussive. It’s mostly percussion sounds, so it ends up being this kind of almost like a weird beatboxing kind of thing because it’s trying to make sense of these sounds through my voice.

The New York Times



For more audio journalism and storytelling, [download New York Times Audio](#), a new iOS app available for news subscribers.

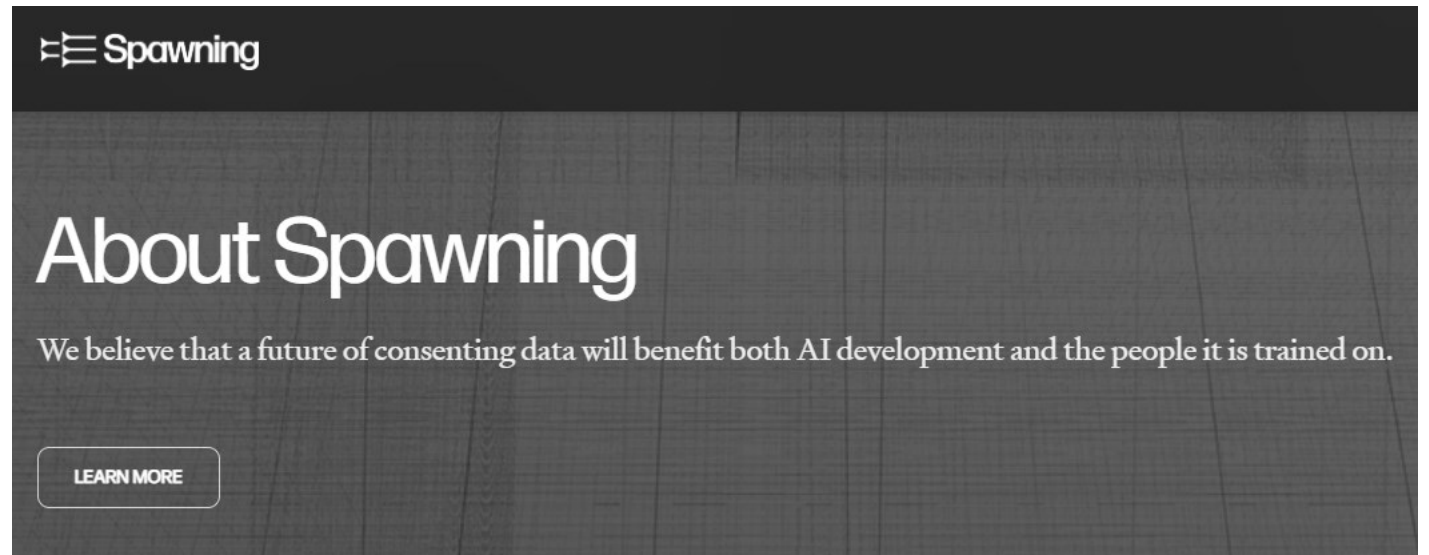
THE EZRA KLEIN SHOW

Transcript: Ezra Klein Interviews Holly Herndon

Share full article



Spawning is a term we created to describe the act of creating entirely new media with an AI system trained on older media. We felt it was necessary to distinguish that this process is different from older techniques like sampling or collage.



- The next few years will be fascinating and challenging. There will be great potential for a variety of cultural synthesizers generating new works.
- As the Spawning example shows, it opens up new types of collaboration and creation.
- Libraries and other cultural organizations will have to explore about how to engage with the creative outputs of these cultural technologies. And to rethink questions of authorship, creation, originality, provenance, influence and so on.



Experiment

Libraries are entering a period of experiment. It is useful to think of AI in specific support roles. For example:

- * Generator/processor
- * Assistant/Co-pilot
- * Coach/interlocutor

Beyond the Hype Cycle: Experiments with ChatGPT's Advanced Data Analysis at the Palo Alto City Library

M Ryan Hess and Chris Markman

In June and July of 2023 the Palo Alto City Library's Digital Services team embarked on an exploratory journey applying Large Language Models (LLMs) to library projects. This article, complete with chat transcripts and code samples, highlights the challenges, successes, and unexpected outcomes encountered while integrating ChatGPT Pro into our day-to-day work.

Our experiments utilized ChatGPT's Advanced Data Analysis feature (formerly Code Interpreter). The first goal tested the Search Engine Optimization (SEO) potential of ChatGPT plugins. The second goal of this experiment aimed to enhance our web user experience by revising our BiblioCommons taxonomy to better match customer interests and make the upcoming Personalized Promotions feature more relevant. ChatGPT helped us perform what would otherwise be a time-consuming analysis of customer catalog usage to determine a list of taxonomy terms better aligned with that usage.

In the end, both experiments proved the utility of LLMs in the workplace and the potential for enhancing our librarian's skills and efficiency. The thrill of this experiment was in ChatGPT's unprecedented efficiency, adaptability, and capacity. We found it can solve a wide range of library problems and speed up project deliverables. The shortcomings of LLMs, however, were equally palpable. Each day of the experiment we grappled with the nuances of prompt engineering, contextual understanding, and occasional miscommunications with our new AI assistant. In short, a new class of skills for information professionals came into focus.

Using custom GPT or
other approaches to
explore and provide
access to resources

(for example: policies,
finding aids,
...)

Copilot

Cataloging,
reference

Analytics,
decision
support

Manipulating
digital
resources

ETL, merging,
data
enhancement,
...

KB, catalog



Some librarywide topics

- * LLMs
- * Scholarly communication
- * Understanding the marketplace



LLMs

- * Growing number of specialist LLMs
 - * Bloomberg
 - * OLMO
 - * ...
- * Large Library Language Models?
- * Multiple configurations – creating LLMs or working with LLMs in various ways
 - * (LLM, tuning, RAG, GPT)

Aggregated libguides?

Is Springshare
doing anything
here?

A complementary
resource?

Biblio- graphic



WorldCat
HathiTrust
Jstor


Finding aids

Amplify current
discovery
discussions

What opportunities are there to work training collections in the library community?

A collective action issue – requires sustainable coordination across individual interests.


  Sign in Sign up

AI 

Generative AI, scholarly and cultural language models, and the return of content

AI momentum continues to grow, and we are seeing more applications in the scholarly and cultural spaces. Several organizations have been creating specialist large language models based on reservoirs of curated scientific and cultural data.

Jun 28, 2023 / 22 min read



I discuss this in a forthcoming article in *Against the Grain*.



Scholarly communication

- * Explore scholarly universe in new way
- * A new front for open access?

AI

Generative AI, scholarly and cultural language models, and the return of content

AI momentum continues to grow, and we are seeing more applications in the scholarly and cultural spaces. Several organizations have been creating specialist large language models based on reservoirs of curated scientific and cultural data.

Jun 28, 2023 / 22 min read



- The impact of cultural technologies on scholarly communication will be significant, across the research life cycle.
- These three ‘scholarly communication service providers’ are especially interesting as they bring together large parts of the literature, research workflow services, analytics services, research profiles, and other research elements. What services will they provide?
- Open access has focused successively on the article, on the journal and on the package. We are now looking at a new horizon – the LLM enabled interaction with research corpora.



Understanding the Marketplace

- * Which LLM?
- * What patterns are being used (RAG etc)?
- * What data is being collected?
- * How is harm being mitigated?
- * Is there a need for standardization?


Collective
attention



While individual libraries have much to do, they have limited influence on broader directions.

At a time like this, it is important for the organizations that represent library interests to coordinate (around shared approaches to research skills support, policy and advocacy, open access, purchasing and industry knowledge/agreements, library data and training collections, and so on).

It is also important for the organizations that do scale library data and services to explore what can be done to build new services.



**THE FUTURE IS
THE FUTURE**

**Cell
Phone**

**A reconfiguration of
experience**

Selfie

**Music, retail,
communications, ...**



We could never have predicted the way in which the cell phone interacted with behaviors to reconfigures whole areas of experience – retail, music, communication.

Think of something so apparently simple as the selfie, think of mental wellness, and of identity, tourism and communication.

While we should be alert to the possible directions and impacts of AI, we should also acknowledge that we cannot predict how it will evolve in practices.



Lorcan Dempsey

Prompt: generate a cartoon image of this selfie.

Response: "Here is the cartoonish illustration based on the photo you provided.

It features a stylized version of the man with a friendly expression, in a colorful and graphic style."

THANK YOU!