

CHATBOT



LIBRARIAN

One search,
Two answers,
A plan for the future

Rachel Butler,
MLISM

Stacey Astill, MLISM



Your thoughts on AI

www.menti.com code: 3346 6037



What is generative AI?

- A type of artificial intelligence which uses patterns and structures in existing sources to generate new content.
- These 'chatbots' are "next-word prediction engines"
- Includes Large Language Modules (LLMs) such as Chat GPT 3.5 and 4.

What do the academics think?

- **Versatile and an opportunity, but guidelines for use are important**
 - **Anthropomorphism influences perception and trust level**
 - **Creative process disruptor**
- **Using it in teaching helps ensure students understand the limitations**
 - **Lacks critical thinking skills and contextualisation**
 - **Use to streamline work and focus on excellent teaching**
 - **Conscious of data protection implications**
 - **Repetitive, too good to be true**

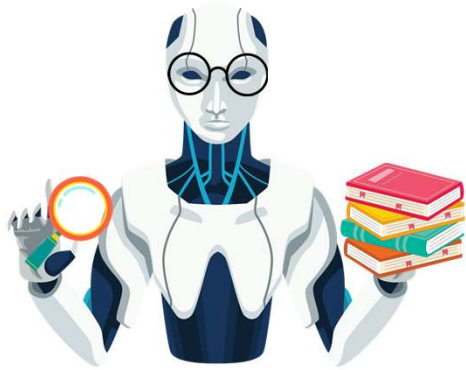


What does ChatGPT-3.5 think?

"librarians focus on higher-level tasks, research and knowledge curation, while chatbots handle routine inquiries and streamline information access"

Running a Search

- **Adult ADHD**
 - **Treatment preference**
- **Non-pharmacological options**



My findings

ADHD Adult non-pharmacological treatment preference levels

Search background: Patient targeted information largely highlights that medication is safe and efficacious and this may guide patient choice.

- Adults searching for information about treatment are likely to find resources such as [ADDitude](#) magazine, [Talk with Frida](#), [Mayo Clinic](#), and [WebMD](#)
 - These sites lay out a variety of options (including stimulant and non-stimulant medication), various therapies and counselling, skills training, and lifestyle changes. They generally advise that medication is safe and effective and some link to research about the efficacy.
 - Some of the sites advise multimodal approaches and some state this is "standard" so service users may expect medication, skills training, and psychological counselling as part of the standard treatment approach.
 - The [NHS website](#) also states that a combination of medication and therapy is best, despite the NICE guidelines on cost efficiency.

Summary:

- [Bushe et al., \(2015\)](#) found 49.4% of adults with a formal ADHD diagnosis in the UK were treated with medication. Of the cohort with formal or informal diagnosis (663) 63.7% did not have a referral into secondary care.
- Difficult to find figures for the amount of adults who prefer non-pharmacological options. There are general mentions of some adults preferring non-medical treatment but these are not referenced (e.g. [Kenter et al., 2023](#); [Bachmann et. Al, 2016](#)). The only one which did reference choosing not to use medication linked to a [2013 study which is in German](#), the summary of which does not align what is being referenced
- Literature overly focused on children and as medication choices are usually made by their parents this cannot be considered representative of adult populations
- [Hoxhaj, E. et al. \(2018\)](#) state 20-50% of adults don't respond to medication, but the paper this hinges on [Wilens et al. \(2001\)](#) and concludes that medication is safe, effective, and most of the studies included in their review were flawed (e.g. doses too low, small sample groups). [WebMD states up to 1 in 10](#), but does not reference this claim.
- [Advokat & Scheithauer \(2013\)](#) cite reports of 43-64% efficacy and also focuses on discontinuation/lack of adherence rates, but this may not directly translate into patients seeking non-pharmacological options as they may just discontinue treatment and not seek further options
- Prescribing of medication used for ADHD [increased by 6% in the last quarter](#), however there are no equivalent diagnosis increase statistics – the pattern does indicate [an increasing demand for medication as diagnosis increases](#).

What Chat GPT found...

1 perfect study! ...which didn't exist

RA

what % of adults who are diagnosed with ADHD choose non-pharmacological treatment options



The percentage of adults diagnosed with Attention-Deficit/Hyperactivity Disorder (ADHD) who choose non-pharmacological treatment options can vary. It is important to note that treatment choices are highly individualized, and preferences can differ based on factors such as personal beliefs, severity of symptoms, and response to different interventions. While some adults may opt for non-pharmacological approaches, others may find medication to be an effective part of their treatment plan.

A study published in the [Journal of Attention Disorders](#) in 2020 examined the treatment preferences of adults with ADHD. The researchers found that approximately 21% of adults diagnosed with ADHD preferred non-pharmacological treatments as their primary choice. This suggests that a significant portion of adults with ADHD may choose non-medication options such as therapy, behavioral interventions, lifestyle changes, and alternative treatments.

But is it really a fight?

- Learning and engaging

"I have been asked so many times during my career, "Do we even need librarians anymore now that we have Google?" and it's never, ever not a bummer. It feels to me, though, like there's an opportunity for librarians here. Our training and experience puts us in a good position to deal with an increasingly more complex information environment. Perhaps this is a moment to show off our skills, and maybe someday put an end to that question forever."

- Libguides and training
- Effective and supportive

Using Generative AI


- **Clear prompts**
 - **Search strategy planning**
 - **Recommended resources**
 - **Another tool, not your only tool**
- **Be up front about use of it in methodology or acknowledgements**

Image Searching



Could you please tell me which country this is the outline of?



View other drafts 



The outline of the country in the image is France.

Image Searching

Could you please help me identify what the building in this picture is?



View other drafts

The building in the picture is the White House, the official residence and principal workplace of the

What to be aware of...

- Hallucinations
- Plagiarism and parroting
 - Copyright
- Accuracy/Consistency
 - 2+ years out of date

Information Retrieval



Aaron Tay, 2023, (10)

<https://musingsaboutlibrarianship.blogspot.com/2023/05/do-searchlarge-language-models-or.html>

What to be aware of...

- Hallucinations
- Plagiarism and parroting
 - Copyright
- Accuracy/Consistency
 - 2+ years out of date
- Bias – both in the chatbots and the plagiarism checkers
 - Lack of emotional intelligence
 - Appropriateness of tool
- Cost to run and long term sustainability

Egg Melting



Tyler Glaiel

@TylerGlaiel

hope you're all ready for the AI dominated future

Google

can you melt eggs



Images

Videos

How long

Shopping

News

Maps

Books

Yes, an egg can be melted. The most common way to melt an egg is to heat it using a stove or microwave.

8:06 pm · 25 Sep 2023 · **1.8M** Views



Tyler Glaiel @TylerGlaiel · 25 Sep

this is actually hilarious. Quora SEO'd themselves to the top of every search result, and is now serving chatGPT answers on their page, so that's propagating to the answers google gives

the internet is dying

Quora

Search for questions, people, and topics

Can you melt an egg?

2 Answers

Best

ChatGPT · Bot

Yes, an egg can be melted. The most common way to melt an egg is to heat it using a stove or microwave.

Continue reading >



Paul Hart

Food & Beverage Ingredients Solutions (2003–present) · Author has 576 answers and 753K answer views · 4y

No - if you **heat** an egg it's not like melting ice (or metal). Because an egg contains a substantial amount of carefully folded natural **proteins** in their native state.

funnily enough, this is now the top result

can you melt eggs

Images

In the microwave

Videos

How long

"Yes, an egg can be melted," reads the Google Search result shared by Glaiel and confirmed by others. "The most common way to melt an egg is to heat it using a stove or microwave." 1 hour ago



<https://arstechnica.com> › ...



Can you melt eggs? Quora's AI says "yes," and Google is sharing the result

Google

Can you melt an egg



All

Videos

Images

Books

More

Tools

About 172,000,000 results (0.46 seconds)

(Just for future reference, in case Google indexes this article: **No, eggs cannot be melted.** Instead, they change form chemically when heated.)

7 days ago



Ars Technica

<https://arstechnica.com> › 2023/09 › can-you-melt-eggs-... ⋮

Can you melt eggs? Quora's AI says "yes," and Google is ...

Real World Impact

- **Changing landscape of the internet**

- **Assignment Writing**

- **Research**

- **Journals**

- **Book ban decisions**

- **IoM Government Facebook sharing AI generated art**



Isle of Man Government

August 24 at 11:53 AM · 🌐



How brilliant are these post-card style artworks by artist [Victoria Beata](#), which aim to capture the cherished memories of a summer holiday on the Isle of Man, in a very unique way.

The artist and creative director at [Modus Architects](#) dreamt up the idea whilst running near Langness and observing the nature all around her.

She said: 'Rabbits are delightful and an intrinsic part of our landscape - and they sparked my imagination. There is something enchanting about watching them amidst the dewy grass in the early morning, darting in and out of gorse bushes.'

'With this in mind, I embarked on a journey to illustrate the essence of a summer holiday for our rabbit friends. Each setting is a tribute to the beautiful moments we treasure on the island – the captivating vistas, the beauty of nature, and the sense of wonder surrounding us.'

Each rabbit artwork is set in a unique setting to celebrate the island's natural beauty and the imaginative possibilities it holds.

The artist said her work combines her passions for nature, artistic expression, culture, sustainability and finding the 'epic in every day.'



Real World Impact

- 24/7
- Health Research
- De-duplicating World Cat
- Finding books



Library Thing

Sign in / Join English Help

Search LibraryThing

LibraryThing

Home

Groups

Talk

More

Zeitgeist



Your Books

Bibliographic

Works

Authors

Series

Tags

Common Knowledge 3

Lists

Classification

AI Search

Social

Groups

Talk 111

Members

Wiki 12

Book World

LibraryThing Local

Other 230

ER Publishers

Member Libraries

teenager has a bad time in new york

AI Search

AI Search is an experimental work search. [Find out more.](#)



The Catcher in the Rye by J. D. Salinger

67,516 members, 1,061 reviews, 2,597 editions, 3.79 stars

Source: LLM



The Outsiders by S. E. Hinton

19,918 members, 664 reviews, 804 editions, 4.03 stars

Source: LLM



The Perks of Being a Wallflower by Stephen Chbosky

20,037 members, 735 reviews, 413 editions, 4.02 stars

Source: LLM



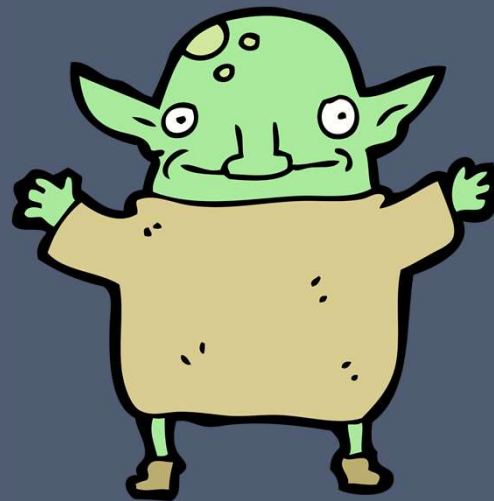
Annie Hall [1977 film] by Woody Allen

311 members, 6 reviews, 148 editions, 4.07 stars

Source: LLM

Real World Impact

- 24/7
 - Health Research
 - Deduplicating World Cat
 - Finding books
- Accessibility and task planning



Goblin.tools

Magic ToDo

Breaking things down so you don't

Help ?

Add new item...



☰ write a literature review



☰ Read relevant literature



☰ Take notes on key points and findings



☰ Organize notes into categories



☰ Identify gaps in the literature



☰ Analyze and synthesize the information



☰ Write the literature review



☰ Revise and edit the review



☰ Properly format citations and references



↻ Sync ↕



Real World Impact

- 24/7
 - Health Research
 - Deduplicating World Cat
 - Finding books
 - Accessibility and task planning
 - Dictation



Otter.ai

The screenshot displays the Otter.ai interface for a note. On the left is a vertical sidebar with icons for home, notes, calendar, and other functions. The main area shows a note titled "Note" with a "Share" button in the top right. The note's metadata includes the date "Mon, Oct 2, 2023 . 4:13 PM", a duration of "0:16", and the owner "Stacey A". The transcription text reads: "0:01 Hello to everyone at the Research Festival, I hope you're having a good day. This is me taking dictation, to demonstrate how this will loop when using otter." The word "loop" is highlighted in purple. At the bottom, a playback control bar shows a microphone icon, a red warning icon, a progress bar, and the total duration "0:16".

Note

Share

Note

Mon, Oct 2, 2023 . 4:13 PM 0:16 Owner: Stacey A

0:01

Hello to everyone at the Research Festival, I hope you're having a good day. This is me taking dictation, to demonstrate how this will loop when using otter.

0:16



**Improvise.
Adapt.
Overcome!**

- It's not going away
- It can help researchers
- It needs to be used responsibly
 - It's not replacing us

References



Scan the QR code with your phone camera, or visit:
tinyurl.com/CVLreferences

References

(contd.)



Scan the QR code with your phone camera, or visit:

tinyurl.com/CVLreferences

References

(contd.)



Scan the QR code with your phone camera, or visit:

tinyurl.com/CVLreferences

Any questions?

