

Information Made by Generative AI: Approaches to Critical Evaluation

Who is Andy Schmid?

Lukas Tschopp



Agenda: Our Journey Today

Warm Up

1. GenAI Basics
2. Evaluation of Information
3. Evaluation of GenAI-generated content
4. Outlook



Costa, D. & Jaus, R. (2023). *Kinderhandball Festival 2023 des Schweizerischer Handball-Verband*.
<https://www.handball.ch/de/news/2023/rundum-gelungenes-kinderhandball-wochenende/>

Warm Up

Let's have a look at one example

ChatGPT:

Who's Andy Schmid?



Andy Schmid, born on August 30, 1983, in Horgen, Switzerland, is a renowned Swiss handball player and coach. Standing at 1.89 meters, he played as a center back and is celebrated as one of Switzerland's most accomplished handball athletes. WIKIPEDIA, THE FREE ENCYCLOPEDIA

Playing Career:

- **Club Level:** Schmid's professional journey began with Grasshopper Club Zürich (2004–2007), followed by stints at ZMC Amicitia Zürich (2007–2009) and Bjerringbro-Silkeborg (2009–2010). His most notable tenure was with Rhein-Neckar Löwen in Germany (2010–2022), where he achieved significant success, including winning the Handball-Bundesliga titles in 2016 and 2017. He concluded his playing career with HC Kriens-Luzern (2022–2024). WIKIPEDIA, THE FREE ENCYCLOPEDIA
- **International Level:** Debuting for the Swiss national team in 2003, Schmid earned 218 caps and scored 1,094 goals, setting records for both appearances and goals. He participated in major tournaments, including the EHF European Championship in 2004 and 2020, and the IHF Men's World Championship in 2021. WIKIPEDIA, THE FREE ENCYCLOPEDIA

Warm Up

Let's have a look at one example


Claude:

Who's Andy Schmid?



Andy Schmid is a Swiss handball player who has had a notable career in professional handball. He played as a center back and spent many years with German Bundesliga club Rhein-Neckar Löwen (2010-2022), where he was particularly successful. He won multiple Bundesliga titles with the team and was named the league's Most Valuable Player five times consecutively (2014-2018). He has also been a key player for the Swiss national handball team.

Since this is quite specific information about a player who, while accomplished, isn't among the most globally famous handball players, I should mention that although I try to be accurate, I may hallucinate some details when discussing relatively obscure topics like this.

 Copy  Retry  



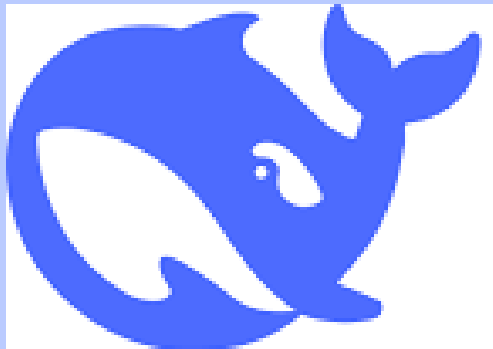
Claude can make mistakes. Please double-check responses.

Warm Up

Let's have a look at one example

DeepSeek:

Who's Andy Schmid?



Andy Schmid ist ein bekannter Schweizer Handballspieler, der als einer der besten Handballer der Schweiz gilt. Er wurde am **30. August 1983** in **Sursee** geboren und spielt vorwiegend auf der Position des **Rückraumspielers**. Schmid ist bekannt für seine Vielseitigkeit, seine Führungsqualitäten und seine herausragende Spielintelligenz.

Karrierehöhepunkte:

• Vereinskariere:

- Schmid spielte für mehrere renommierte Vereine, darunter **TBV Lemgo** (Deutschland), **HSG Wetzlar** (Deutschland), **RK Zagreb** (Kroatien) und **Rhein-Neckar Löwen** (Deutschland).

- Seit 2017 steht er wieder bei **Kadetten Schaffhausen** unter Vertrag.

• Nationalmannschaft:

- Andy Schmid ist ein Schlüsselspieler der **Schweizer Nationalmannschaft**.
- Er führte die Schweiz zur Teilnahme an der **Handball-Europameisterschaft 2022**, wo das Team den 6. Platz erreichte.

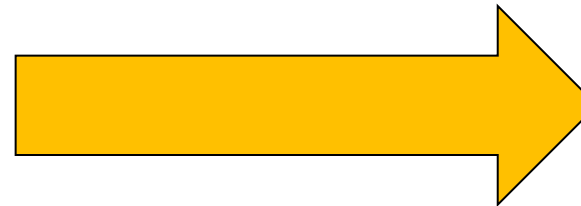
• Auszeichnungen:

- Schmid wurde mehrfach zum „**Schweizer Handballer des Jahres**“ gewählt.
- Er gilt als einer der besten Spieler in der Geschichte des Schweizer Handballs.

Warm Up

Let's compare the answers

ChatGPT	Claude	DeepSeek
Handball	Handball	Handball
30.08.1983	-	30.08.1983
Horgen	-	Sursee
D: RNL	D: RNL	D: RNL, HSG, TBV
CH: Kriens	-	CH: Schaffhausen
-	-	EM 2022



Who is Andy Schmid?

Warm Up

Let's share thoughts



Why is there a mismatch between the different answers?
Please share your thoughts in the Zoom chat.

Warm Up

Possible Answers

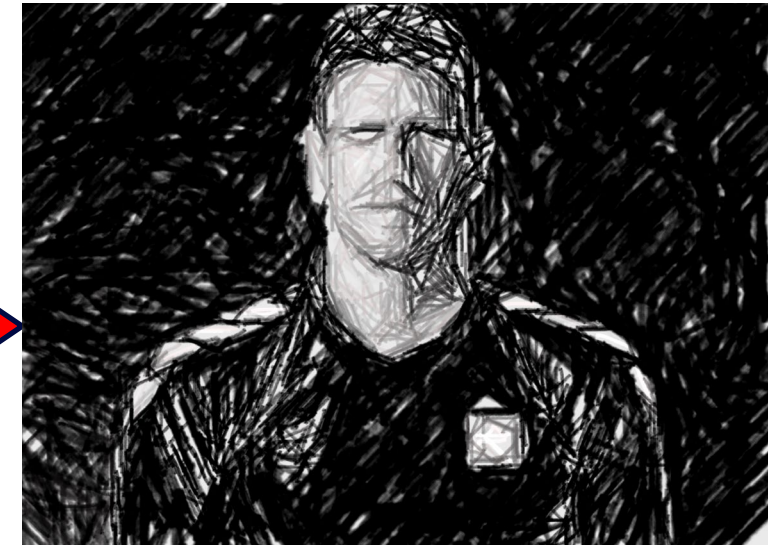
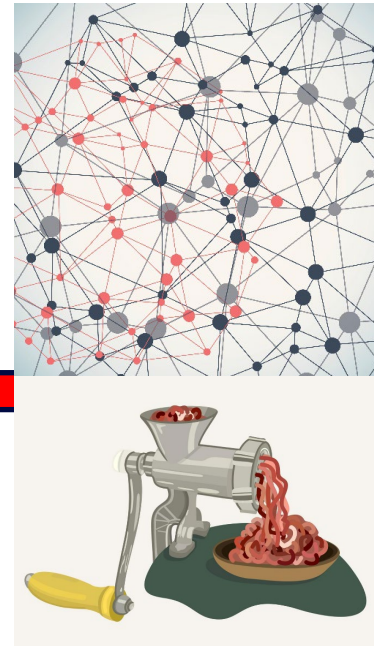
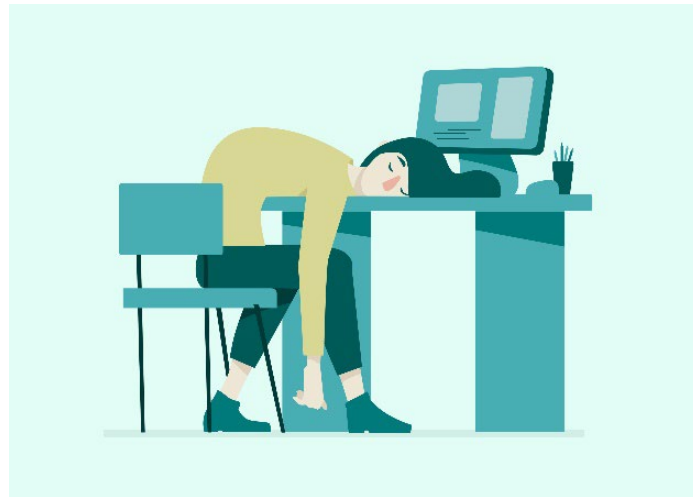


When we use the same input in ChatGPT, Claude and DeepSeek, the results are not the same. Why is that? Some possible answers:

- Our input has been translated differently
- Our input was not precise enough
- These tools use different sources to answer our question
- These tools use the same source but a different approach
- These tools are not designed for such tasks
- ...

1. GenAI Basics

How Does GenAI Work?



Who is Andy Schmid?

Prompt / Input

GenAI such as ChatGPT
or Claude or DeepSeek

Statistics / Probability

Description of Andy Schmid, but is this
the guy I was looking for?

Result / Output / text, image, video ...

1. GenAI Basics

Let's share thoughts

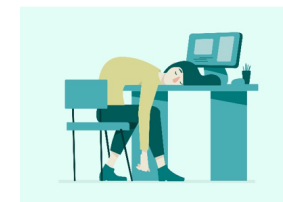


Let's have a second look at our previous example:

What are the implications of knowing that there is a set of data that will be used along with statistics/probabilities to answer my question?

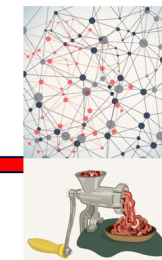
Please share your thoughts in the Zoom chat.

1. GenAI Basics How Does GenAI Work?



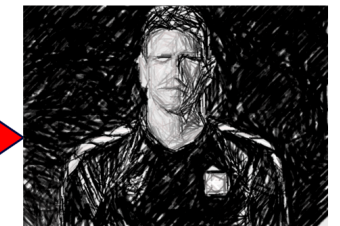
Who is Andy Schmid?

Prompt / Input



GenAI such as ChatGPT
or Claude or DeepSeek

Statistics / Probability



Description of Andy Schmid, but is this
the guy I was looking for?

Result / Output / text, image, video ...

1. GenAI Basics

Possible Answers

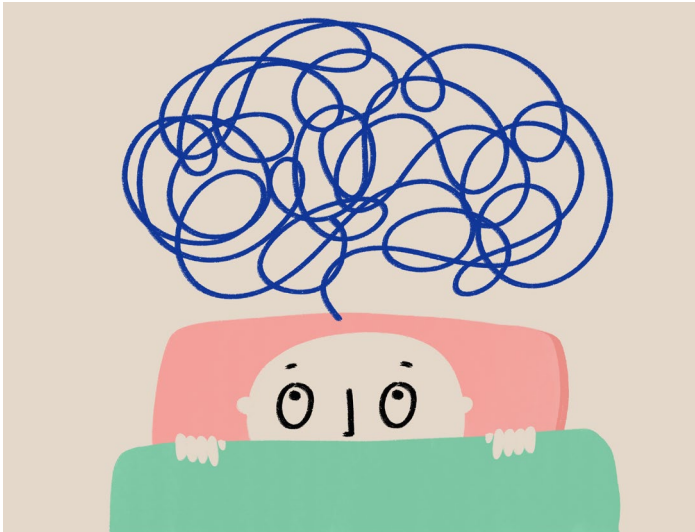


What are the implications of knowing that there is a data set that will be used along with statistics/probabilities to answer my question?

- I don't know what data set ChatGPT, Claude, and DeepSeek are using
- I don't know if the data contains reliable information
- I don't know what information ChatGPT, Claude, and DeepSeek base their answers on (Is there a selection? And if so, according to what criteria?)
- I don't know if there are other AI tools better suited to my topic (in the case of ChatGPT, it referred to Wikipedia)
- ...

1. GenAI Basics

Temporary Summary



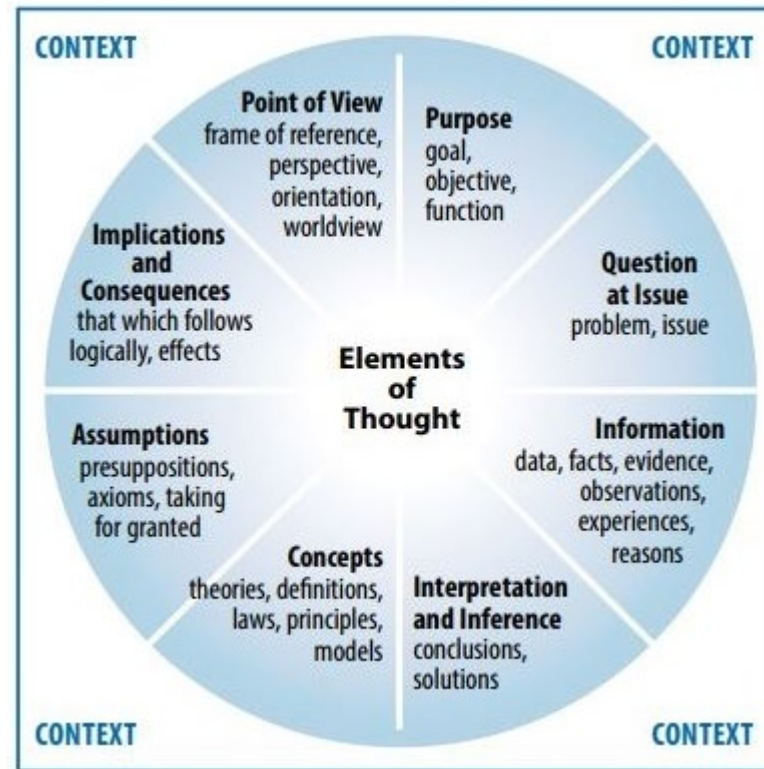
**GenAI is designed to generate text (pictures, videos, etc.).
It's not designed to tell the truth.**

But how do I know if the generated text contains reliable information?

Let me think first...

...maybe I need to critically evaluate the content.

2. Evaluation Of Information Context: Paul-Elder Framework for Critical Thinking



Foundation for Critical Thinking (2019). Build a Local Critical Thinking Town Hall. <https://www.criticalthinking.org/pages/critical-thinking-town-hall/1456>

3. Evaluation of GenAI-generated content

What help is out there?

Help One: ROBOT Test

Hervieux, S. & Wheatley, A. (2020). The ROBOT test [Evaluation tool]. The LibrAlry.
<https://thelibrary.wordpress.com/2020/03/11/the-robot-test>

Help Two: Questions to Ask

UT Southwestern (2024). Generative AI - Issues, Benefits, Reliability and Authority - Questions to Ask.
<https://utsouthwestern.libguides.com/artificial-intelligence/generative-ai-questions>

Help Three: How to Critically Evaluate GenAI Output

University College Dublin, (2024). Are You AI Ready? Investigating AI Tools in Higher Education - Student Guide
https://ucddublin.pressbooks.pub/StudentResourcev1_od/chapter/how-to-critically-evaluate-genai-output/

3. Evaluation of GenAI-generated content

Let's have a closer look



Choose one of the three links in the chat and have a look at the help on how to evaluate GenAI-generated content.

Please write down your learning in one sentence in the Zoom chat.

3. Evaluation of GenAI-generated content

ROBOT test

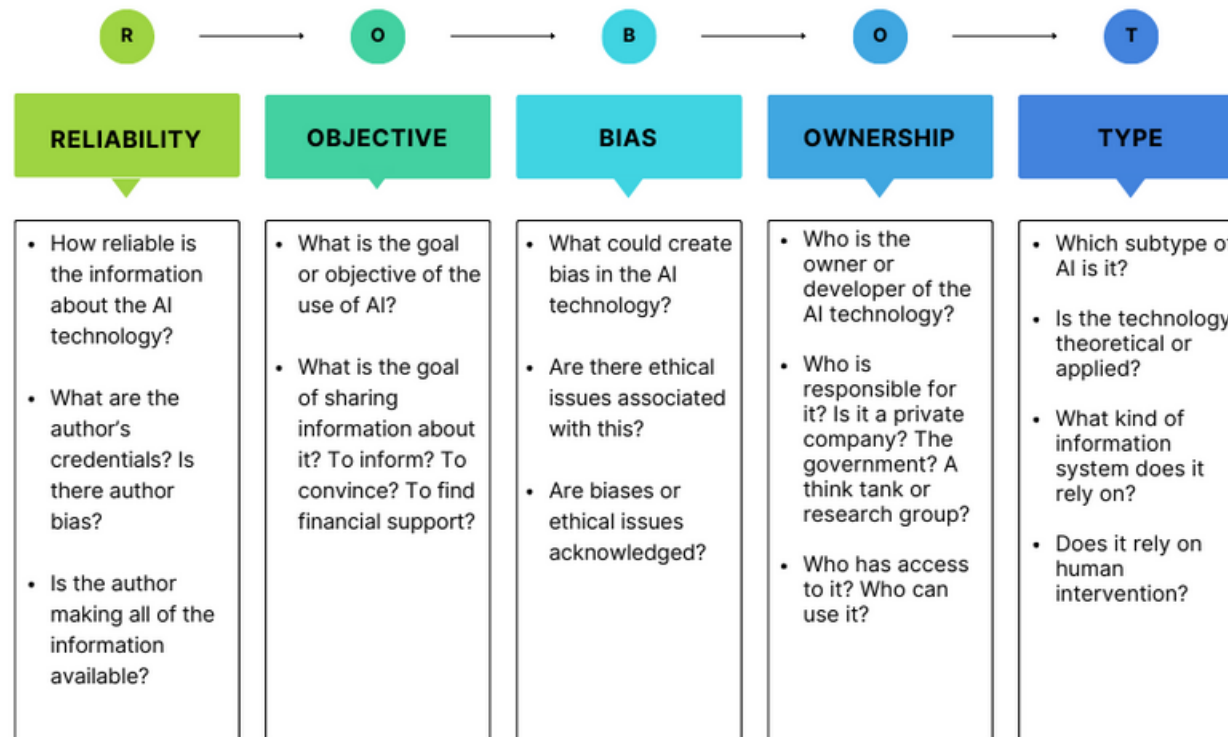


Image adapted from "Separating artificial intelligence from science fiction: Creating an academic library workshop series on AI literacy" by A. Wheatley & S. Hervieux, S, in S. Hervieux & A. Wheatley (Eds.), *The Rise of AI: Implications and Applications of Artificial Intelligence in Academic Libraries* (pp. 65 - 66), 2022, (<https://escholarship.mcgill.ca/concern/books/0r9678471>). Copyright 2022 by Amanda Wheatley and Sandy Hervieux under [CC-BY-NC-SA](https://creativecommons.org/licenses/by-nc-sa/4.0/)

3. Evaluation of GenAI-generated content ROBOT test

ChatGPT uses data from the World Wide Web

ChatGPT can create hallucinations

Anthropic (Claude AI) has received Investments from Google and Amazon

DeepSeek avoids certain hot topics, such as Taiwan's relationship with China

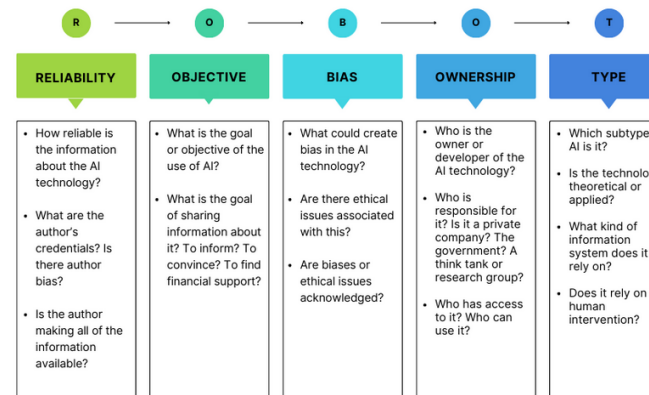
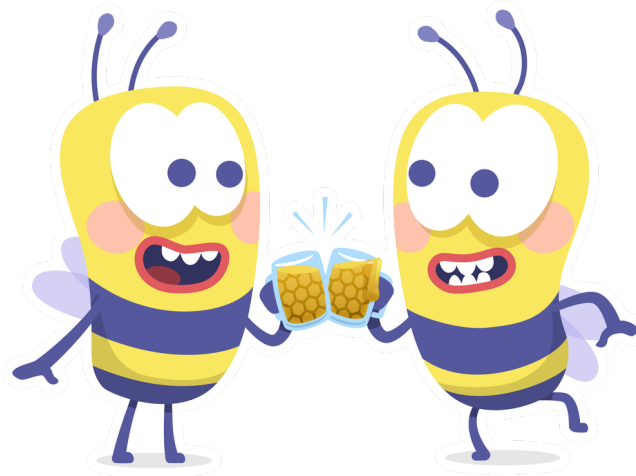


Image adapted from "Separating artificial intelligence from science fiction: Creating an academic library workshop series on AI literacy" by A. Wheatley & S. Hervieux, S, in S. Hervieux & A. Wheatley (Eds.), *The Rise of AI: Implications and Applications of Artificial Intelligence in Academic Libraries* (pp. 65 - 66), 2022, (<https://escholarship.mcgill.ca/concern/books/0r9678471>). Copyright 2022 by Amanda Wheatley and Sandy Hervieux under [CC-BY-NC-SA](https://creativecommons.org/licenses/by-nc-sa/4.0/)

4. Outlook

Where Do We Go From Here?



Key Points

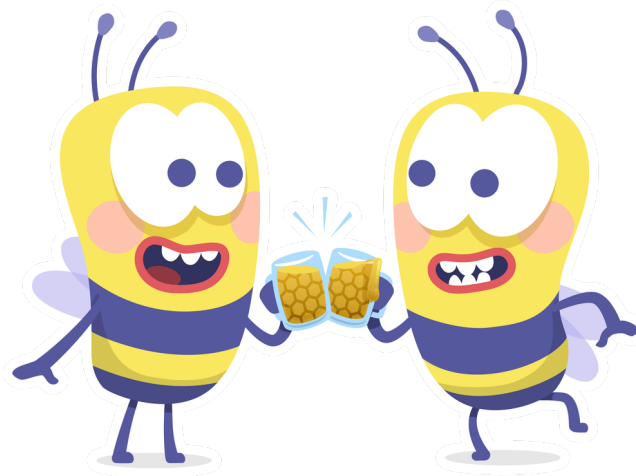
- GenAI is designed to generate text (pictures, videos, etc.). It's not designed to tell the truth.
- As a result, critical evaluation (e.g. using the ROBOT test) of the content is necessary to avoid misinformation.
- Critical thinking skills are essential for anyone using AI tools.



Schweizerischer Handball Verband (2024-02-23). *Andy Schmid* übernimmt das Amt des A-Nationaltrainers per sofort.
<https://www.handball.ch/de/news/2024/andy-schmid-uebernimmt-das-amt-des-a-nationaltrainers-per-sonst/>

4. Outlook

Where Do We Go From Here?



Please use our feedback form to tell us what you thought about today's coffee lecture:

Via [MS Forms](#) or via QR Code:



Thank You for Your Attention! **Contact us if you have any questions**

University of Zurich

University Library Zurich

Gloriastrasse 16

8006 Zürich

Tel.: +41 44 634 50 50

www.uzh.ch

Lukas Tschopp

Liaison Librarian for Healthcare Professions

lukas.tschopp@ub.uzh.ch

Additional Quiz

Test your GenAI and critical thinking knowledge!

<https://libguides.scu.edu.au/genAI/evaluation>