

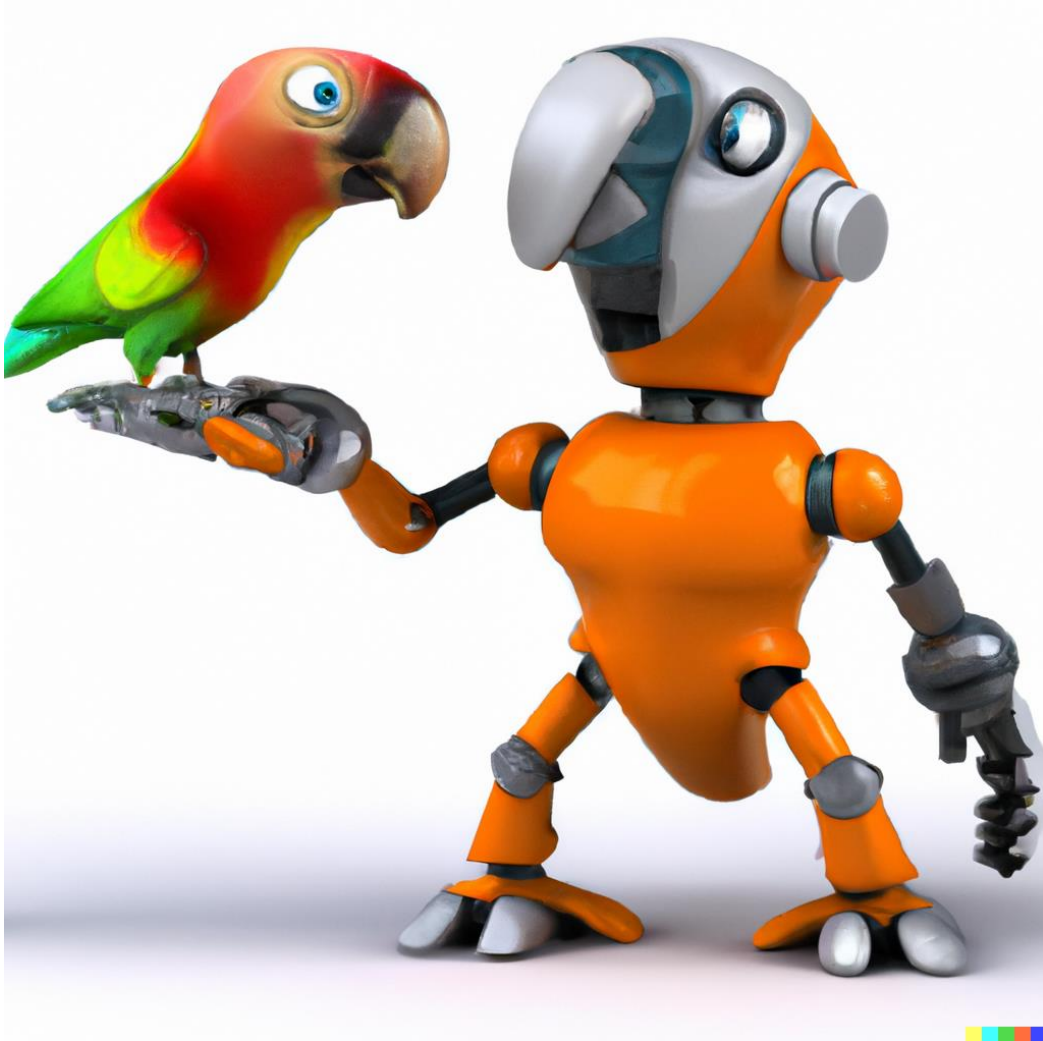
KI IN DER HOCHSCHULLEHRE: Potenziale, Herausforderungen und Best Practices

Dr. Isabella Buck
Dr. Anika Limburg
LehrLernZentrum der Hochschule RheinMain
09.11.2023

AGENDA

1. Zwischen Evolution und Disruption: Potenziale von KI im Studium
2. Zwischen Deskillung und neuer professioneller Praxis: KI in Schreibprozessen
3. Zwischen Produkt und Prozess: Prüfungen in Zeiten generativer KI
4. Ausblick

WOVON SPRECHEN WIR?



- Stochastic parrots ([Bender et al. 2019](#))
- Sprachmodelle, keine Wissensmodelle
- Halluzinationen ([Albrecht 2023: 38ff.](#))

Zwischen Evolution und Disruption: Potenziale von KI im Studium

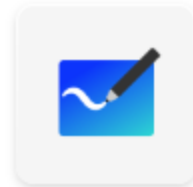
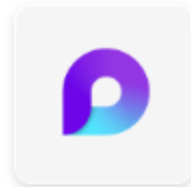
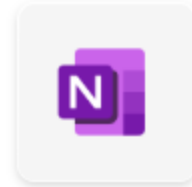
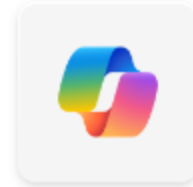
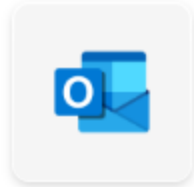
- Schreiben
- Recherchieren
- Präsentieren
- Personalisiertes Lernen

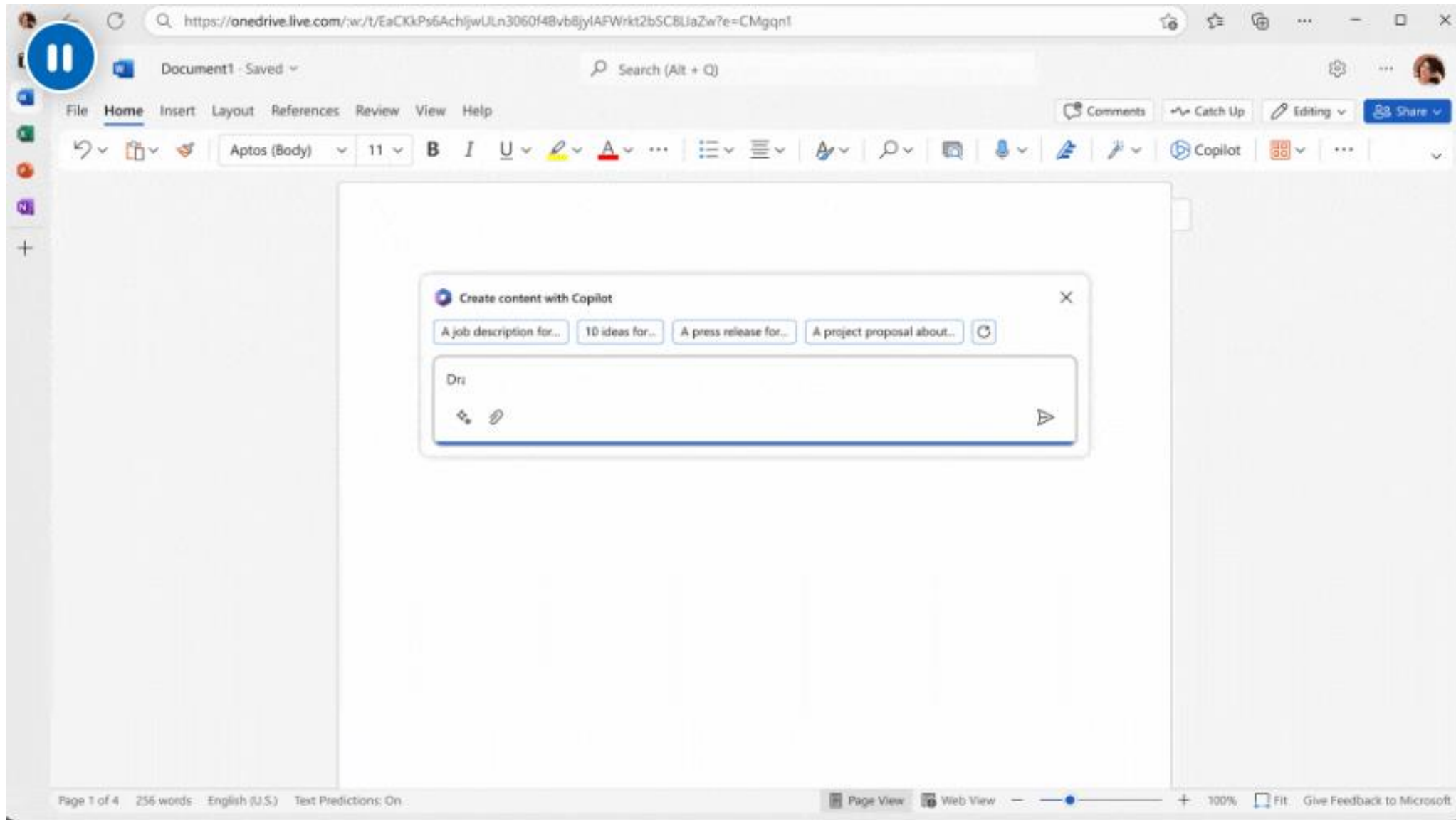


Microsoft Copilot, eine völlig neue Arbeitsweise

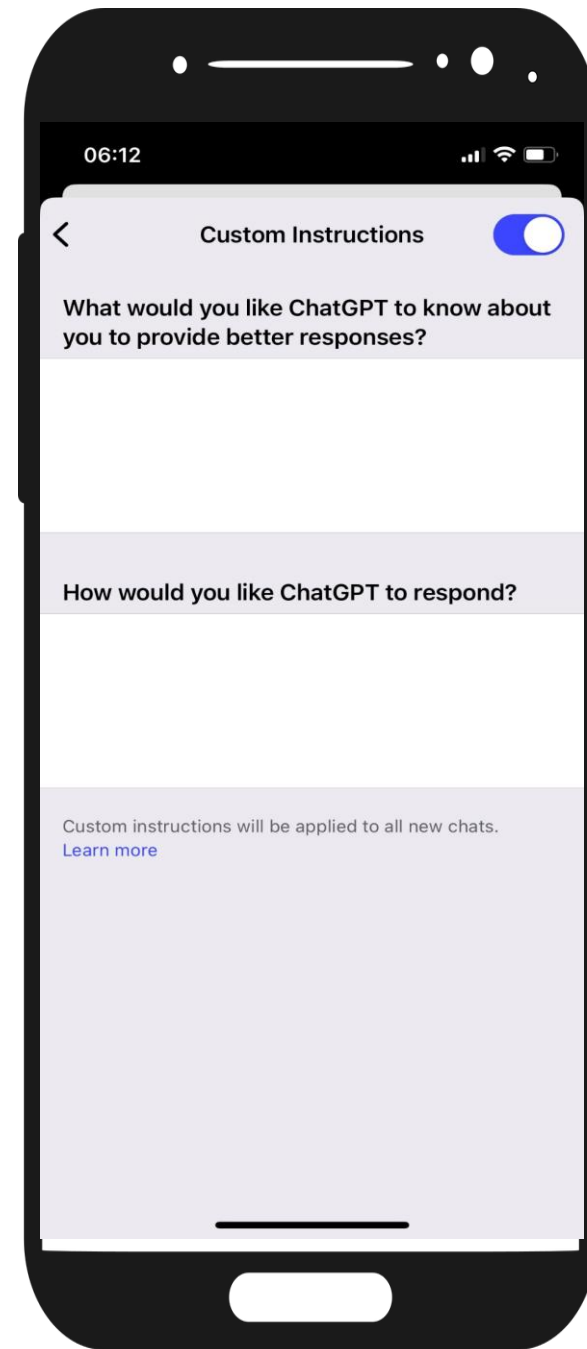
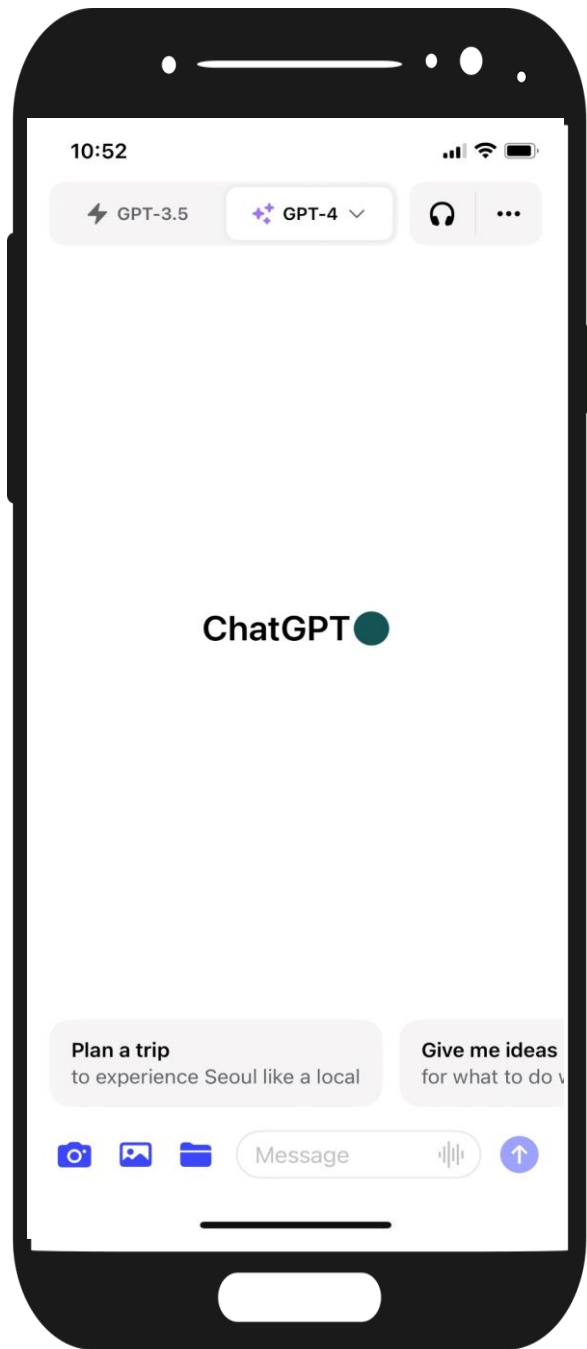
Copilot hilft Ihnen dabei, Dinge wie nie zuvor mithilfe der Leistungsfähigkeit von KI zu erreichen.

Erkunden, was mit Copilot möglich ist



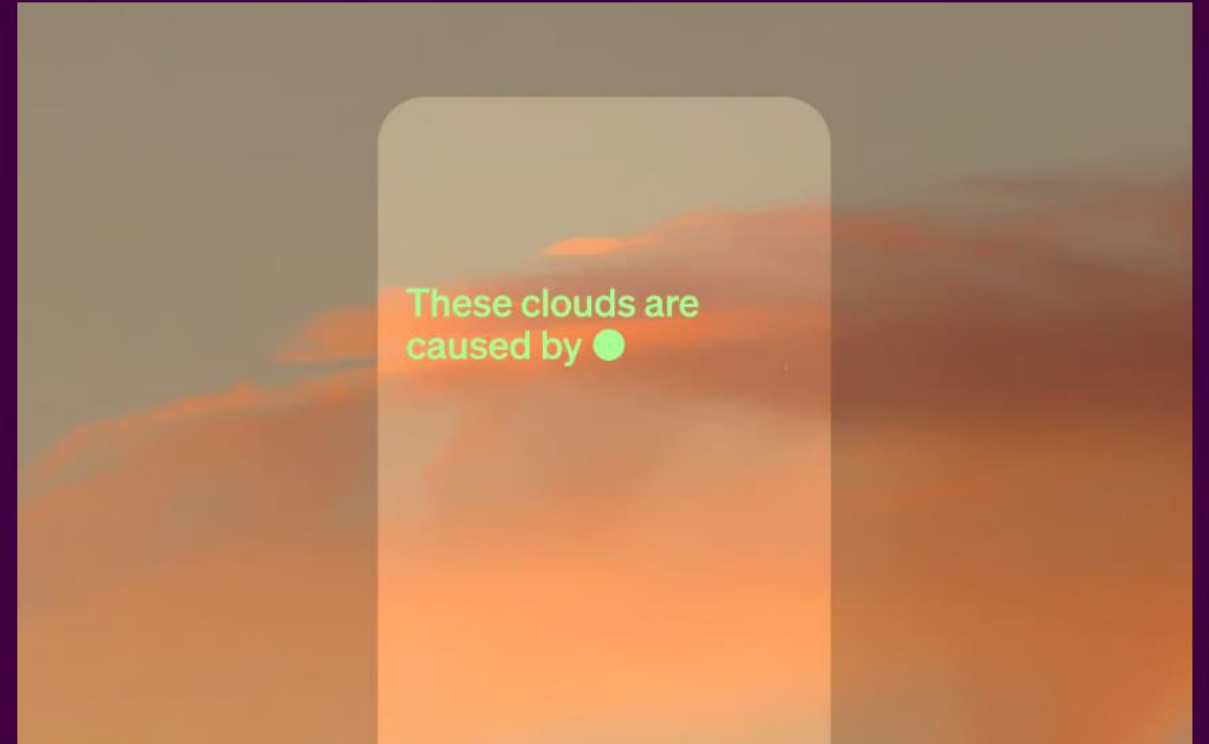


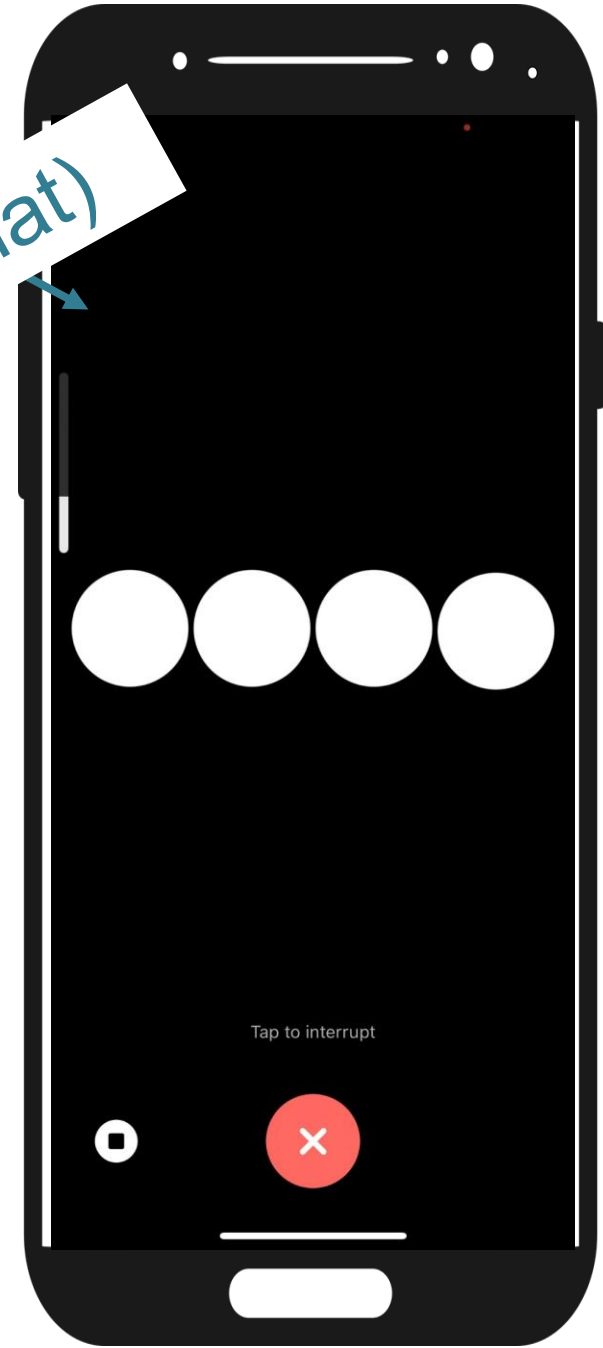
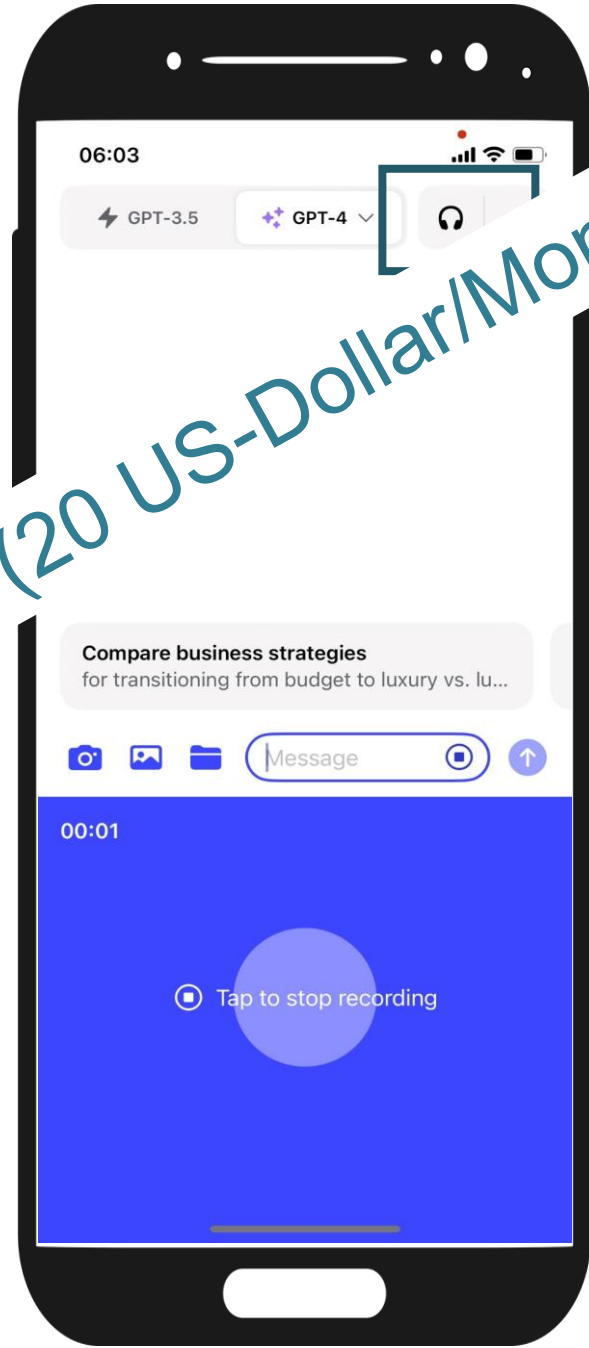
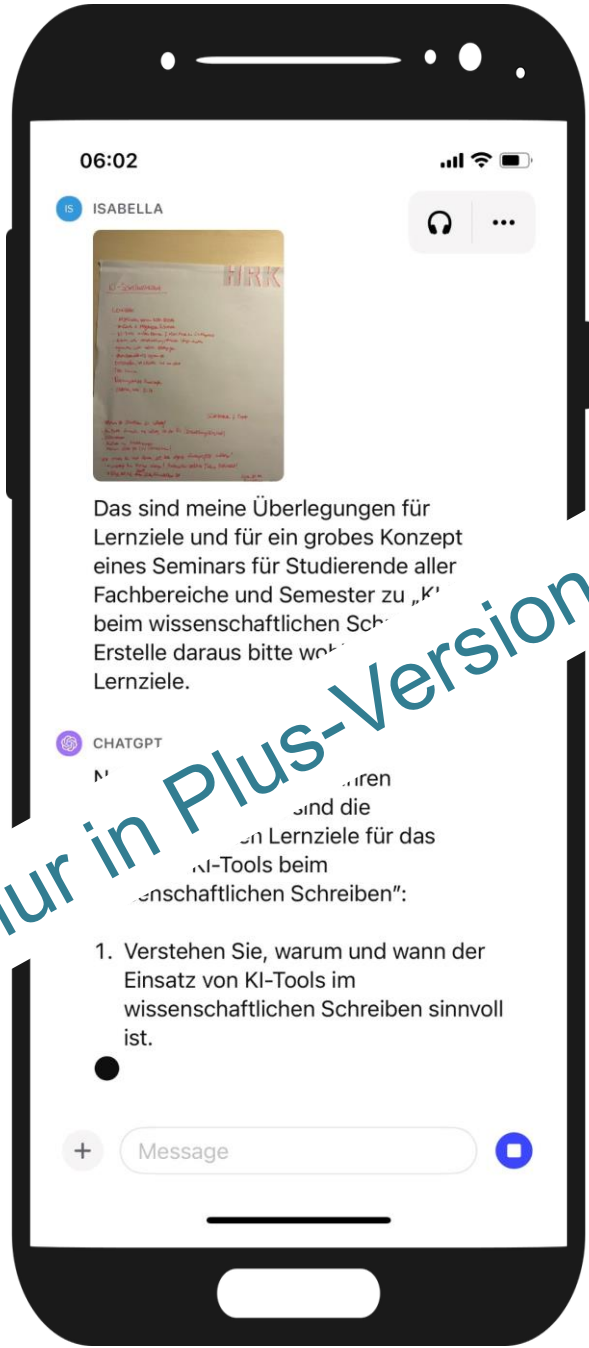
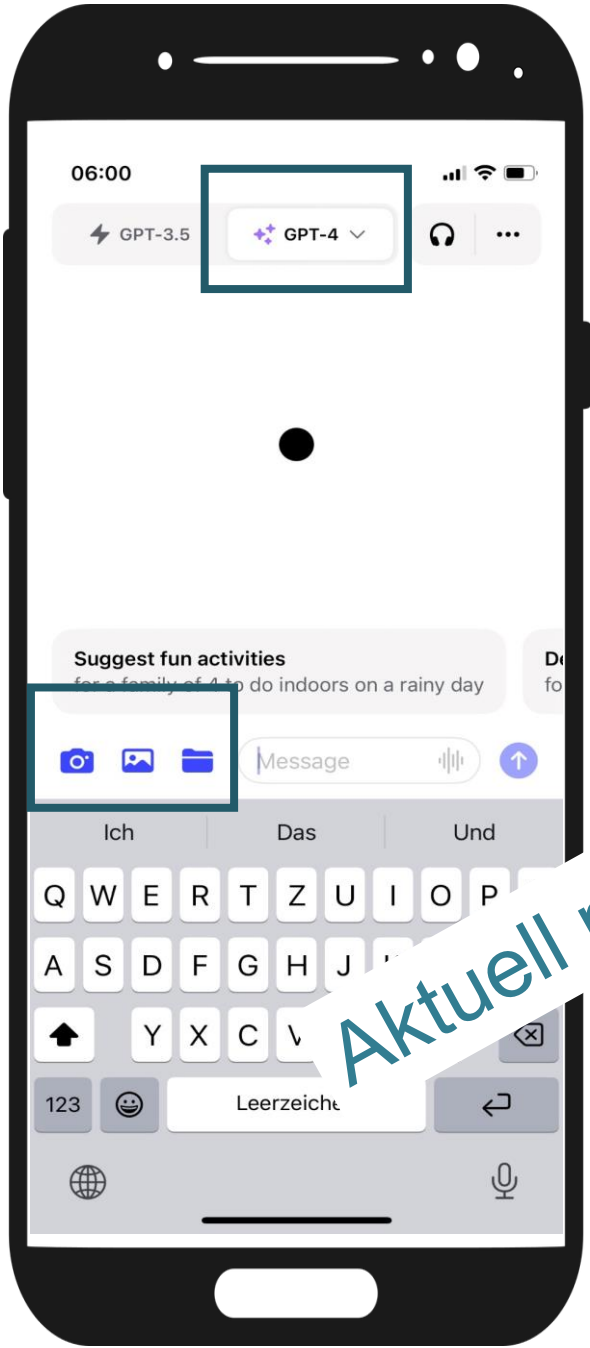
<https://www.microsoft.com/en-us/microsoft-365/blog/2023/03/16/introducing-microsoft-365-copilot-a-whole-new-way-to-work/>



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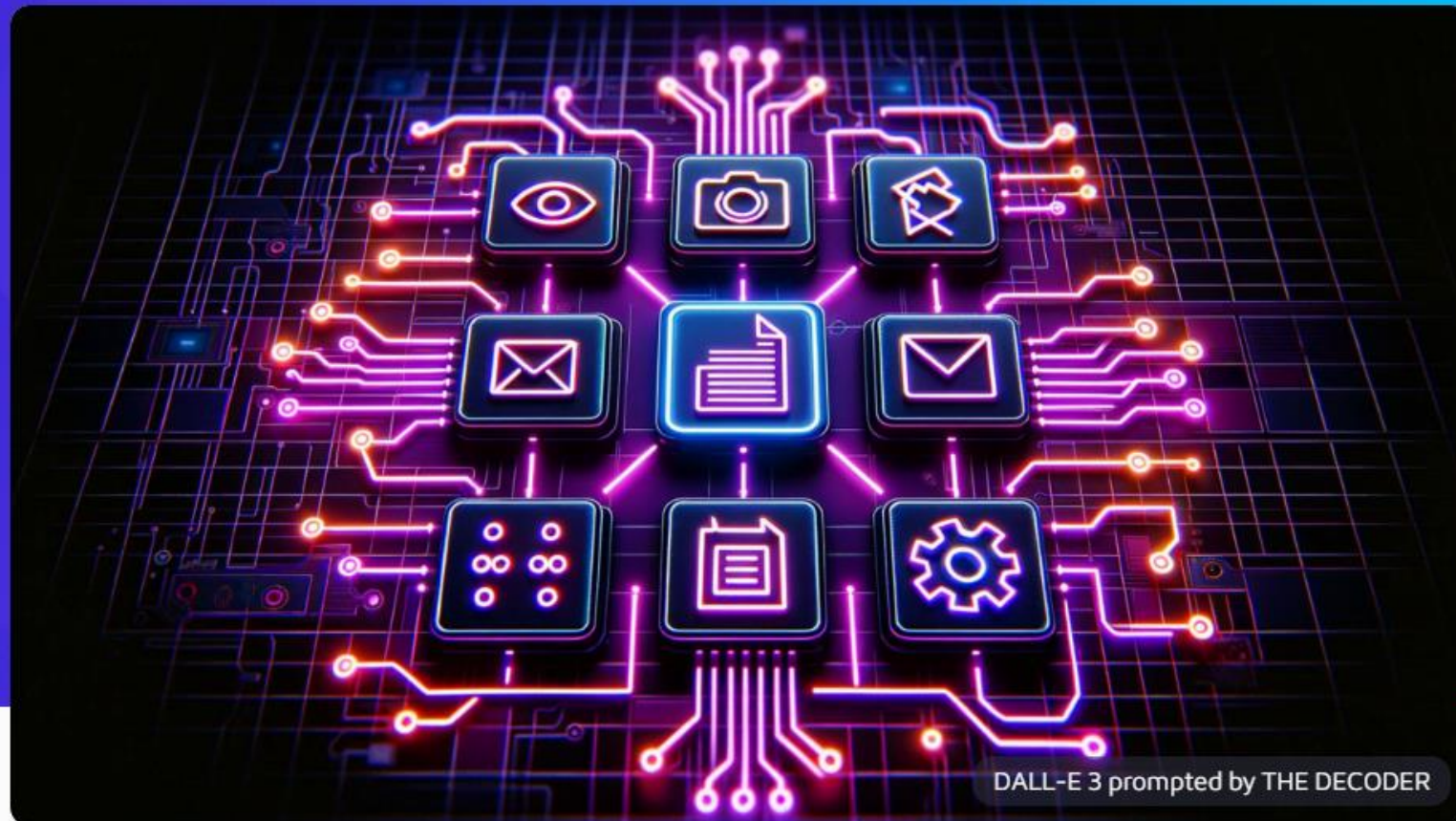
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OpenAI rollt GPT-4 Update für integriertes, flexibles "Super-Modell" aus





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 Standard | GPT-3.5 | 

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Neueste Dokumente

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 **Untitled**

03.11.2023

 **Untitled**

19.10.2023



Los geht's (0/5) 

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 - Wie werden Future Skill...
 - What is TOGAF?
 - Wie sieht ein...

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Wie werden Future Skills an deutschen Hochschulen curricular integriert?

Copilot 4 steps complete

Sources

- Future_Skills_Horstmann_1
- [PDF] Future Skills: a Framework for Data... hochschulforumdig... 2
- Future Skills an Hochschulen: Home futureskills 3
- View 20 more

Answer

Future Skills sind Kompetenzen, die über das Fachwissen hinausgehen und für die zukünftige Arbeitswelt und gesellschaftliche Herausforderungen relevant sind. Eine Online-Befragung im Rahmen des CHE Hochschulrankings 2023 hat ergeben, dass 5 von 22 betrachteten Future Skills in allen untersuchten Fächern aus Sicht eines Großteils der Professorinnen bereits „stark“ oder „sehr stark“ gefördert werden, darunter Kritisches Denken oder Lernkompetenz. Für viele Future Skills ist das Ausmaß der Förderung jedoch noch stark fachabhängig, wie zum

u. Copilot

Fächer wurden Future Skills-Profile erstellt, die die Unterschiede bei der Integration von Future



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Sources

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8

FutureSkills

Skills für die Zukunft · 1.Interessante Kurse finden · 2.Digitale Lernmaterialien nutzen · 3.Kompetenzen weiterentwickeln · 4.Zertifikate erwerben.

springer

9

Future Skills für die Welt von morgen: Das Future-Skills-Triple-Helix-Modell der Handlungsfähigkeit in emergenten Praxiskontexten | SpringerLink

In einer Welt im immer schnelleren Wandel ist die Diskussion um Future Skills eine der aktuellsten in der Bildungsforschung.

stifterverband

10

Future Skills - Stifterverband

Die Initiative "Future Skills" zielt darauf ab, die Bedingungen für den Erwerb digitaler und weiterer zukünftig relevanter Kompetenzen zu verbessern.

Cancel

Done


für die zukünftige
ine-Befragung im
achteten Future
nnen bereits
Lernkompetenz.
abhängig, wie zum
tenzen spielen
och eine eher
die einzelnen
gration von Future
Studien, die den


integriert? +
+
die Curricula? +


Copilot ↑





Workflow history


 Does the use of computers in the scientific writing process make the writing process more complex?

 1 paper uploaded


 How does writing competence change under AI?

 How does writing competence change under AI?

 Does cycling enhance mental wealth being?

 How does cycling enhance mental wealth being?

 How does AI affect academic writing?

 Find papers

How is literacy management affected by artificial intelligence?


- Searching for papers
- Summarizing 8 abstracts
- Final answer

Summary of top 4 papers

 Copy

The papers collectively suggest that artificial intelligence (AI) literacy has an impact on various aspects of education and ethical consciousness. [Lee 2021](#) found that an AI literacy education program positively influenced university students' perception of AI ethics. Ng 2021 proposed four aspects of AI literacy: knowing and understanding AI, using AI, evaluating AI, and considering ethical issues. [Wang 2020](#) explored different notions of literacy related to AI and Big Data, highlighting the interconnectedness of digital literacy, information literacy, and data literacy. [Long 2020](#) emphasized the need for competencies in effectively interacting with and critically evaluating AI, as well as learner-centered design considerations for AI technologies. Overall, these papers highlight the importance of AI literacy in education and ethical decision-making.

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Paper

Abstract summary

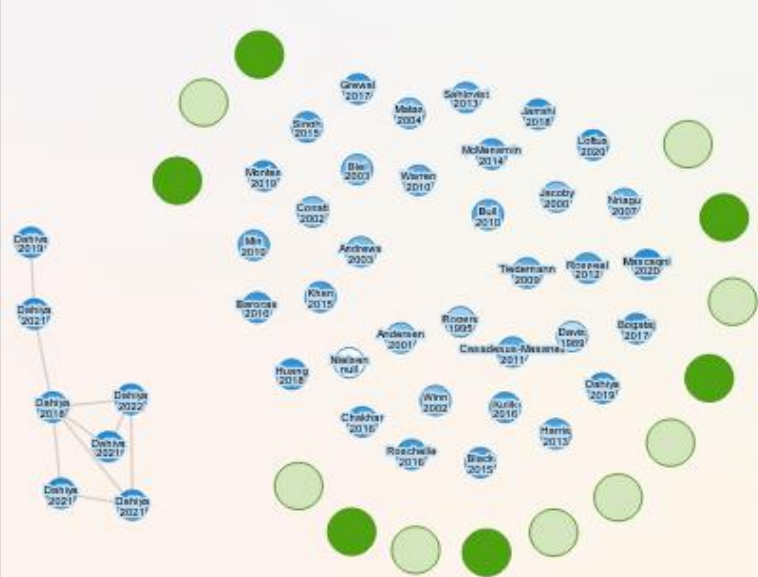
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Timeline

First Author Last

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ResearchRabbit

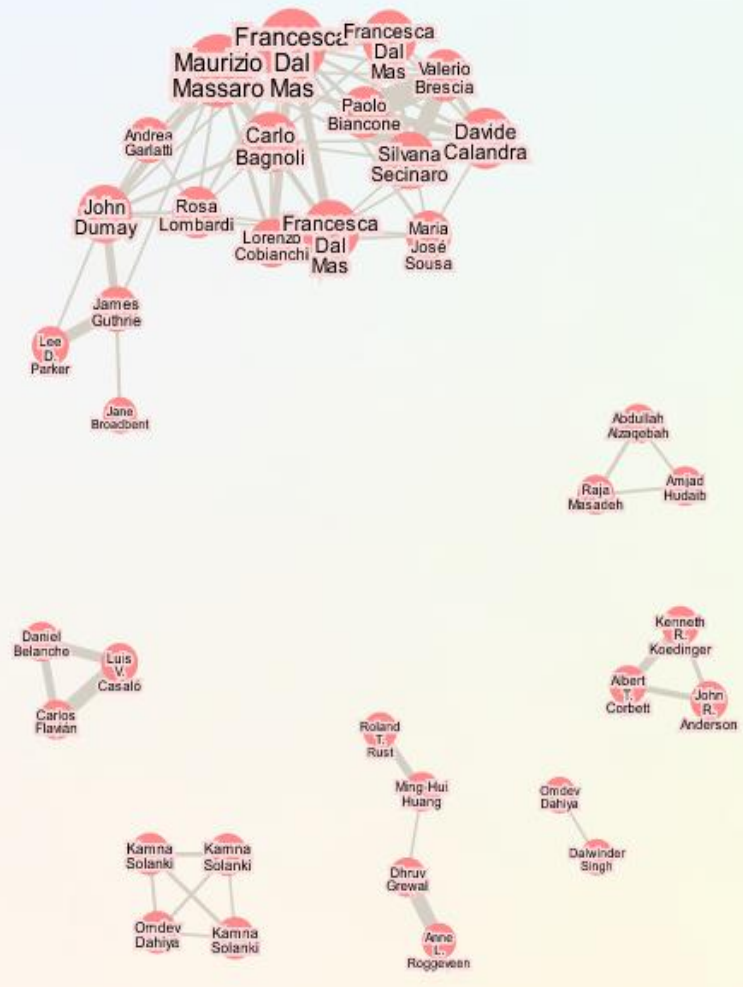


2022
2017
2012
2007
1989



ctions between 36 authors

these items



computation [26], while also improving model performance in case of the latter. The fundamental constraint of sequential computation, however, remains.

Attention mechanisms have become an integral part of compelling sequence modeling and transduction models in various tasks, allowing modeling of dependencies without regard to their distance in the input or output sequences [2, 16]. In all but a few cases [22], however, such attention mechanisms are used in conjunction with a recurrent network.

In this work we propose the Transformer, a model architecture eschewing recurrence and instead relying entirely on an attention mechanism to draw global dependencies between input and output. The Transformer allows for significantly more parallelization and can reach a new state of the art in translation quality after being trained for as little as twelve hours on eight P100 GPUs.

2 Background

The goal of reducing sequential computation also forms the foundation of the Extended Neural GPU [20], ByteNet [15] and ConvS2S [8], all of which use convolutional neural networks as basic building block, computing hidden representations in parallel for all input and output positions. In these models, the number of operations required to relate signals from two arbitrary input or output positions grows in the distance between positions, linearly for ConvS2S and logarithmically for ByteNet. This makes it more difficult to learn dependencies between distant positions [11]. In the Transformer this is reduced to a constant number of operations, albeit at the cost of reduced effective resolution due to averaging attention-weighted positions, an effect we counteract with Multi-Head Attention as described in section 3.2.

Self-attention, sometimes called intra-attention is an attention mechanism relating different positions of a single sequence in order to compute a representation of the sequence. Self-attention has been used successfully in a variety of tasks including reading comprehension, abstractive summarization, textual entailment and learning task-independent sentence representations [4, 22, 23, 19].

End-to-end memory networks are based on a recurrent attention mechanism instead of sequence-aligned recurrence and have been shown to perform well on simple-language question answering and language modeling tasks [28].

To the best of our knowledge, however, the Transformer is the first transduction model relying entirely on self-attention to compute representations of its input and output without using sequence-aligned RNNs or convolution. In the following sections, we will describe the Transformer, motivate self-attention and discuss its advantages over models such as [14, 15] and [8].

3 Model Architecture

Explain math & table

99%

Copilot

- Sequential computation involves computing hidden states sequentially, which is slow for long sequences.
- It generates a sequence of hidden states from the previous hidden state.
- This inherently sequential nature makes parallelization within the model difficult, which becomes critical at long sequences.



Explain Abstract of this paper

Write your question...





SCHÄFER ET AL.

WILEY

time is often claimed to be a crucial barrier for increasing daily physical activity levels. An opportunity for employees to comply with the recommended amounts of activity is regular active commuting by walking or cycling the distance between home/work, while using public transportation. It is the purpose of this review to assess current literature on intervention studies including the effects of active commuting and its benefits for health and wellbeing.¹⁶⁻²³

2 | METHODS

This systematic review conformed with the "Preferred Reporting Items for Systematic Reviews and Meta-Analyses" (PRISMA) guidelines.²⁴ Therefore, no Institutional Review Board approval was necessary. One reviewer searched for potentially relevant studies. If the title and the abstract had no clear context to active commuting, the paper was reviewed in detail by the authors CS and BM.

2.1 | Literature search methodology

An electronic search was performed utilizing Pubmed

2.3 | Statistical analyses

Percent change and Cohen's d effect sizes (ES) were calculated wherever possible to indicate the magnitude of the practical effect. As recommended by Cohen,²⁶ effect sizes were interpreted as follows: small = >0.2, medium = >0.5, and large = >0.8. The sample size of each included study has been taken under consideration and therefore weighted mean values were calculated wherever possible.

3 | RESULTS

The results of the systematic search process are shown in Figure S1. The search revealed a total of 176 titles. After removal of duplicates and exclusion of non-relevant titles, 32 articles were screened by their abstracts. The main reason for exclusion by abstract was because the study was not focused on active commuting and its health effects. Twenty-four articles were reviewed of which 20 were excluded because they were observational studies; that is, retrospective and single cross-sectional studies or study protocols/ conference papers/ interviews, or the intervention period was less than three weeks. However, four articles were added manually. Of these, two articles dealt with

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Percent change and Cohen's d effect sizes (ES) w...ed mean values were calculated wherever possible.

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The Impact of AI on Academic Writing: Challenges and Solutions

- 1
- 2
- 3
- 4

⋮

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academic writing of students

Generate

Advanced



Anpassung von Prüfungsmodalitäten

Die Integration von KI-Schreibtools hat Konsequenzen für den Übungs-, Prüfungs- und Bewertungsprozess. Die Prüfungsordnungen sollten eine klare Linie ziehen und genau festlegen, in welchen Fällen KI-Tools eingesetzt werden dürfen.

1 Allgemeine Prüfungsordnungen

Die Einführung einer Kennzeichnungspflicht für KI generierte Textpassagen ist perspektivisch nicht praktikabel. Eine bessere Möglichkeit bietet die Erweiterung der Eigenständigkeitserklärung um einen Passus zum Einsatz von KI-Schreibwerkzeugen.

2 Praxisbegleitende oder -nachgelagerte schriftliche Prüfungen

Studierende sollten komplexe Aufgaben bekommen, die ihnen erlauben, eigene Experimente zu entwickeln. KI-Tools können zur Finalisierung des Protokolls beitragen, jedoch nichts Inhaltliches beisteuern.

3 Digitale Schlüsselkompetenzen

4 Open-Book-Klausur

Presentation1 • Saved

Search

File Home Insert Design Transitions Animations Slide Show Review View Help

Comments Catch Up Present Editing Share

Aptos (Body) 11 A⁺ A⁻ B A

Copilot

1 Proposal to supply sustainable building material

2

3 Sustainable materials to meet your development needs

4 To by VanArsdel

5 Next steps

VanArsdel & Wide World IMPORTERS

Proposal to supply sustainable building material

March 2023

Keep it Adjust Regenerate Delete

Copilot

Hi Lilly, how can I help get you started?

Create a short presentation based on VanArsdel_Proposal

I've made the VanArsdel_Proposal into 5 slides that should take about 10 minutes to present.

Undo

1 reference

Add animations to this slide

Apply a modern style to the presentation

Describe what you'd like to create, or type in

Subtitles/closed captions (c)

0:25 / 1:06

Give Feedback to Microsoft

https://www.youtube.com/watch?v=fzoZ_f7ji5Q

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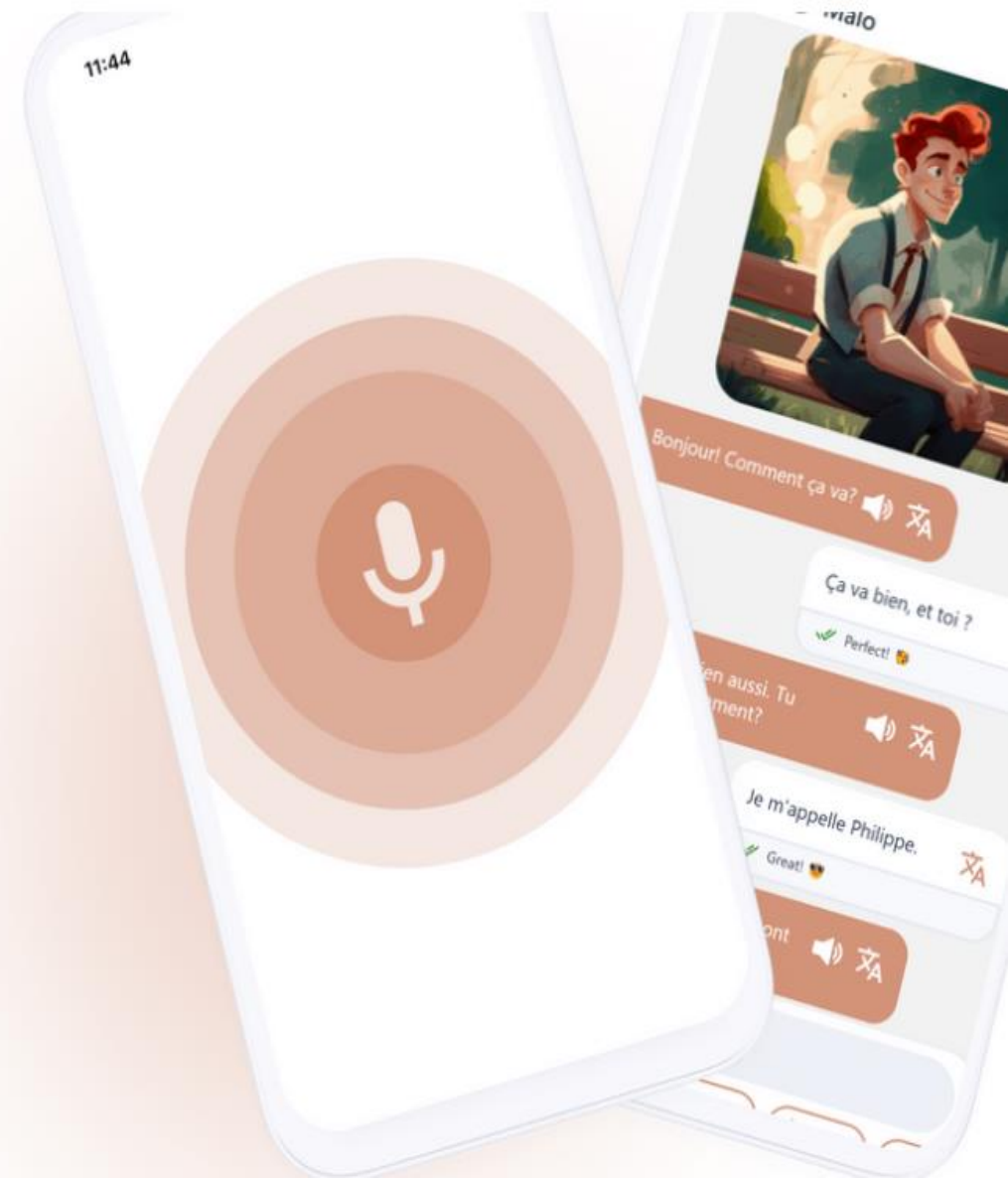
Try

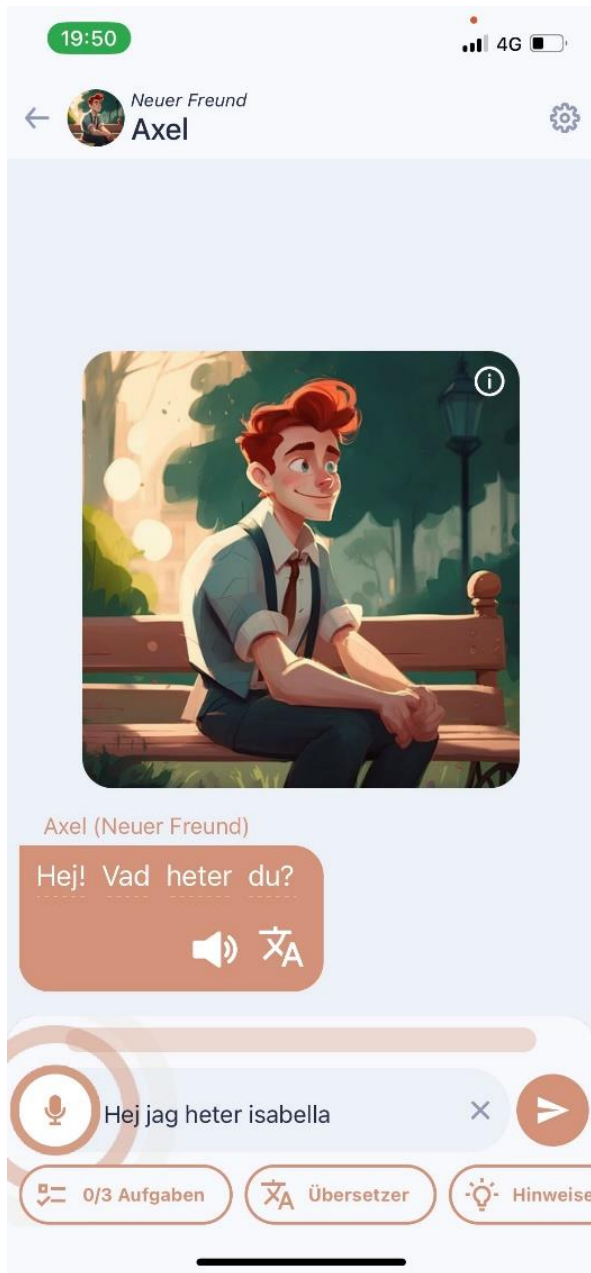
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Your teams

 Discord Twitter Feedback Form

My Experts



Generate new expert

Announcements

We are soon adding an explore page where you can explore experts generated by others. This is a nice experiment we think you'll enjoy! :)



Chat

My Experts

Explore

Pricing

Your teams

Discord

Twitter

Feedback Form

Plan: Beginner



John IT
Active

Context

Hey there! 🙌 I'm John IT, your friendly neighborhood IT manager. I've been tinkering with computers since I was a kid and turned my passion into a career. I love solving tech puzzles and helping people navigate the ever-changing world of technology. So, how can I assist you today? 😊

I need to write an essay on TOGAF. However, my prof didn't tell me what exactly I can write about. Could you give me a question for an essay on TOGAV?

Of course! How about this for a question: "How does the implementation of TOGAF contribute to effective enterprise architecture management and business transformation?" 😞

|Aa...

Power View

Pro tip! ADD custom context to your experts by uploading PDFs or audio and ask questions!

Custom context



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Smart City Integration

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IB Isabella Buck ...

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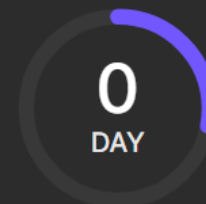
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Day streak

Don't break your streak - make sure to practice each day!

This week



Plaito Tools



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Essay writer

Create better essays with the help of AI



Summarizer

Quickly identify the key takeaways



Textbook chat

Chat with a textbook & get an answer

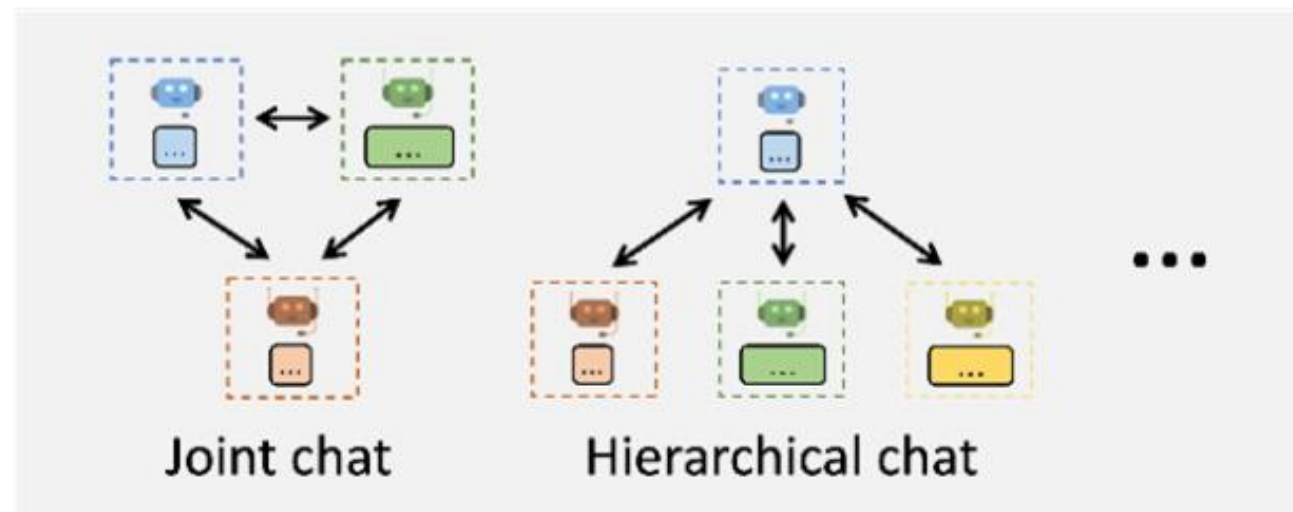
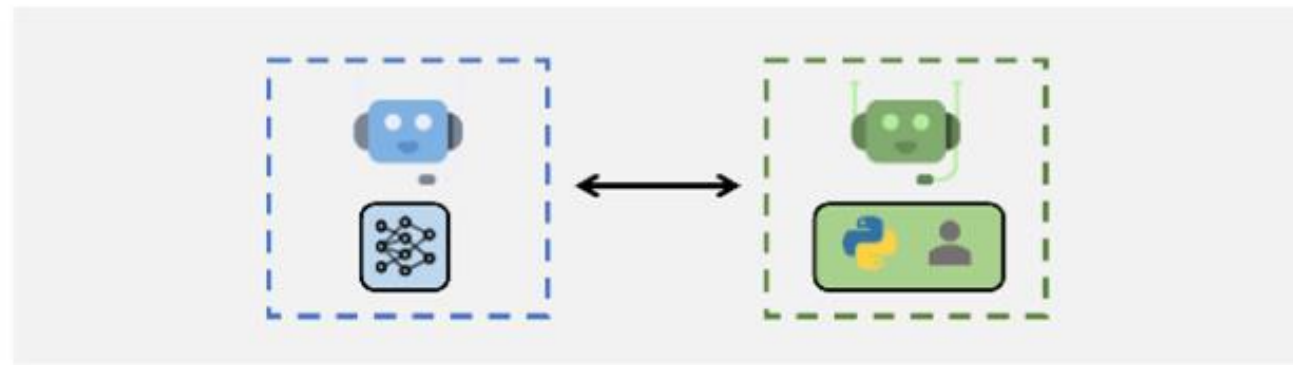
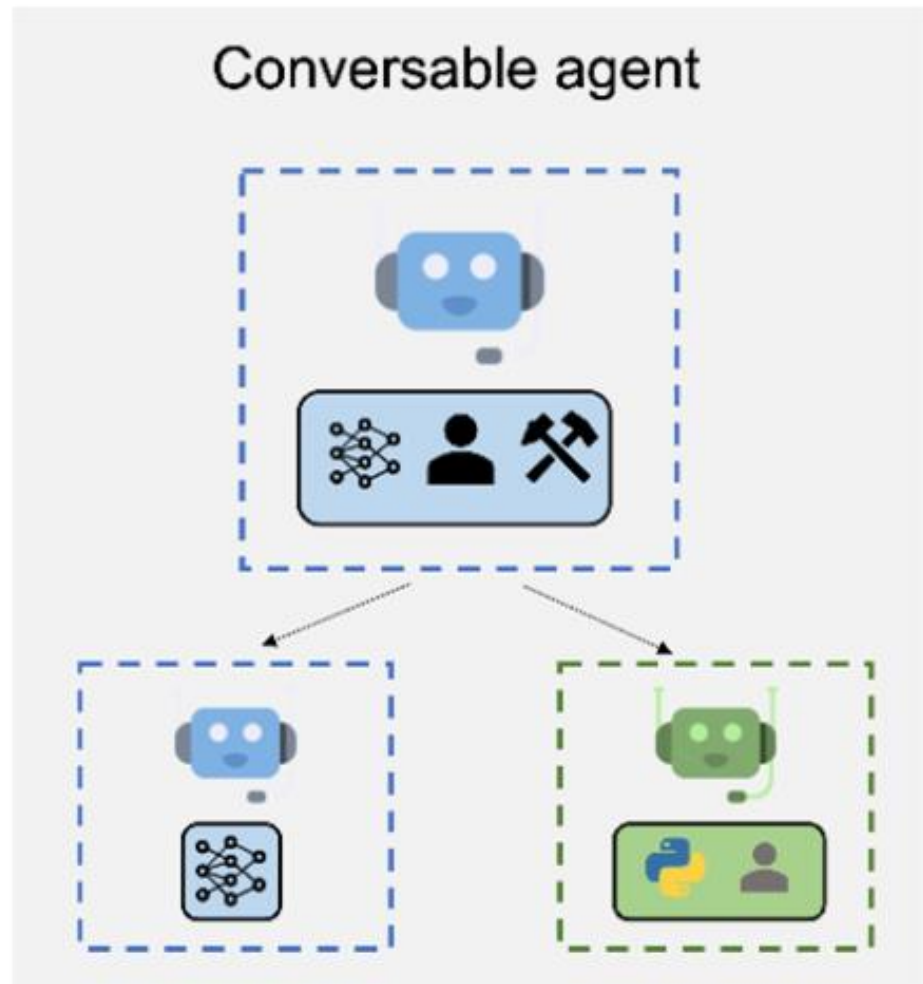


Figure 1. AutoGen enables complex LLM-based workflows using multi-agent conversations. (Left) AutoGen agents are customizable and can be based on LLMs, tools, humans, and even a combination of them. (Top-right) Agents can converse to solve tasks. (Bottom-right) The framework supports many additional complex conversation patterns.

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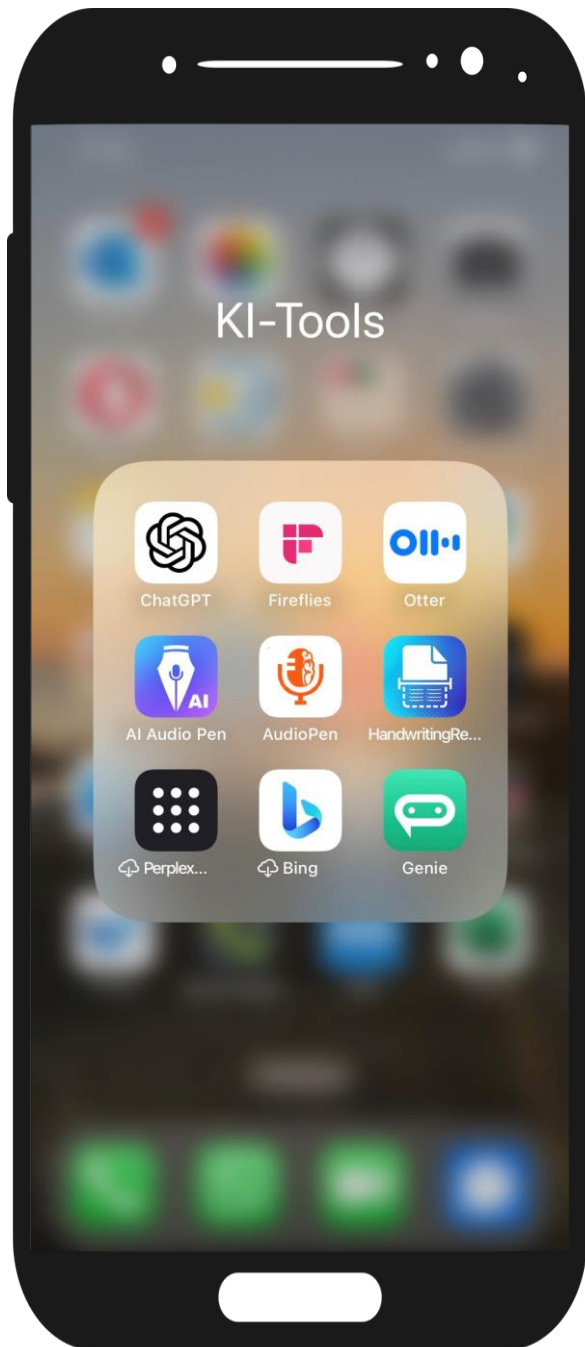
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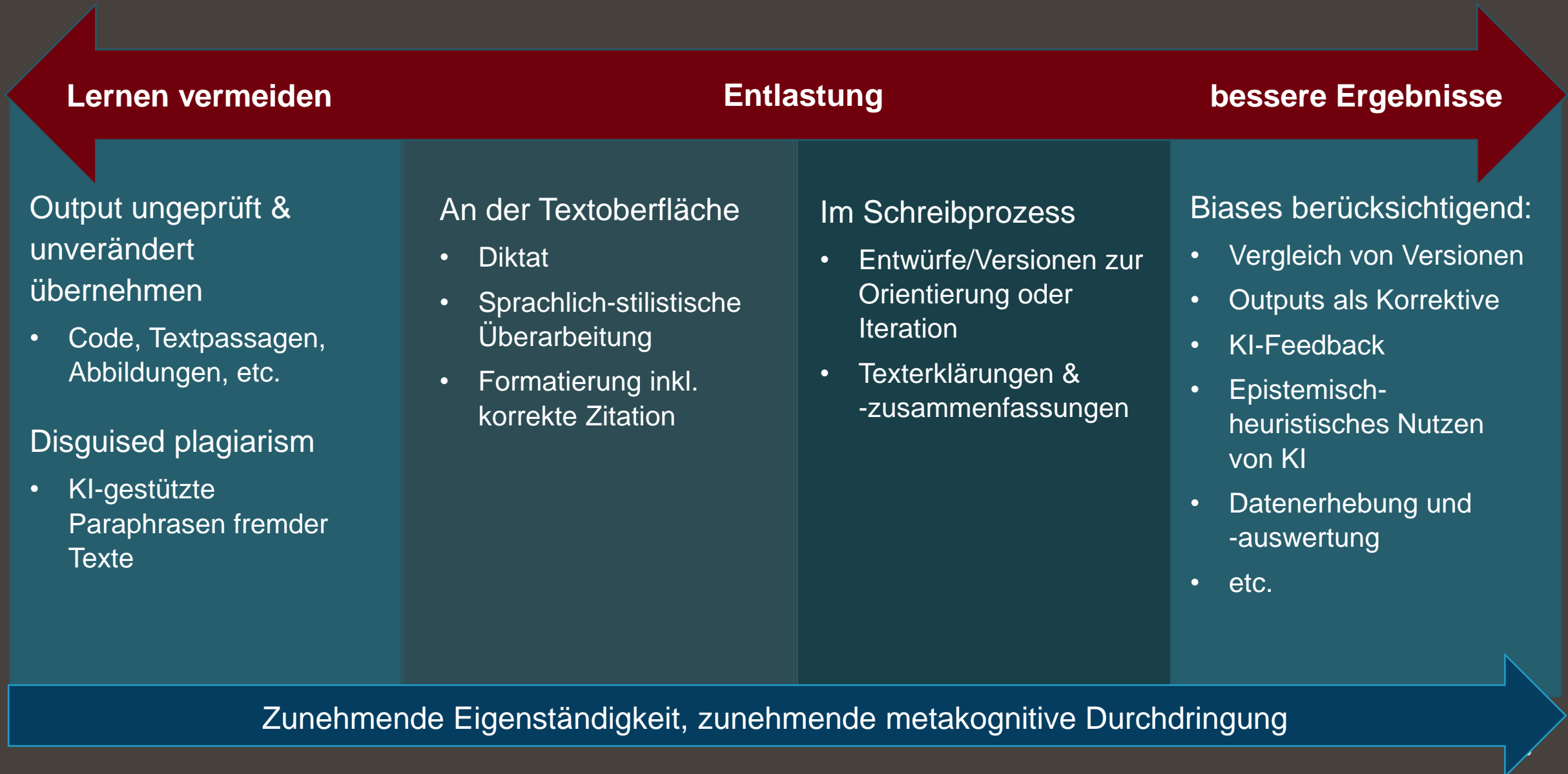


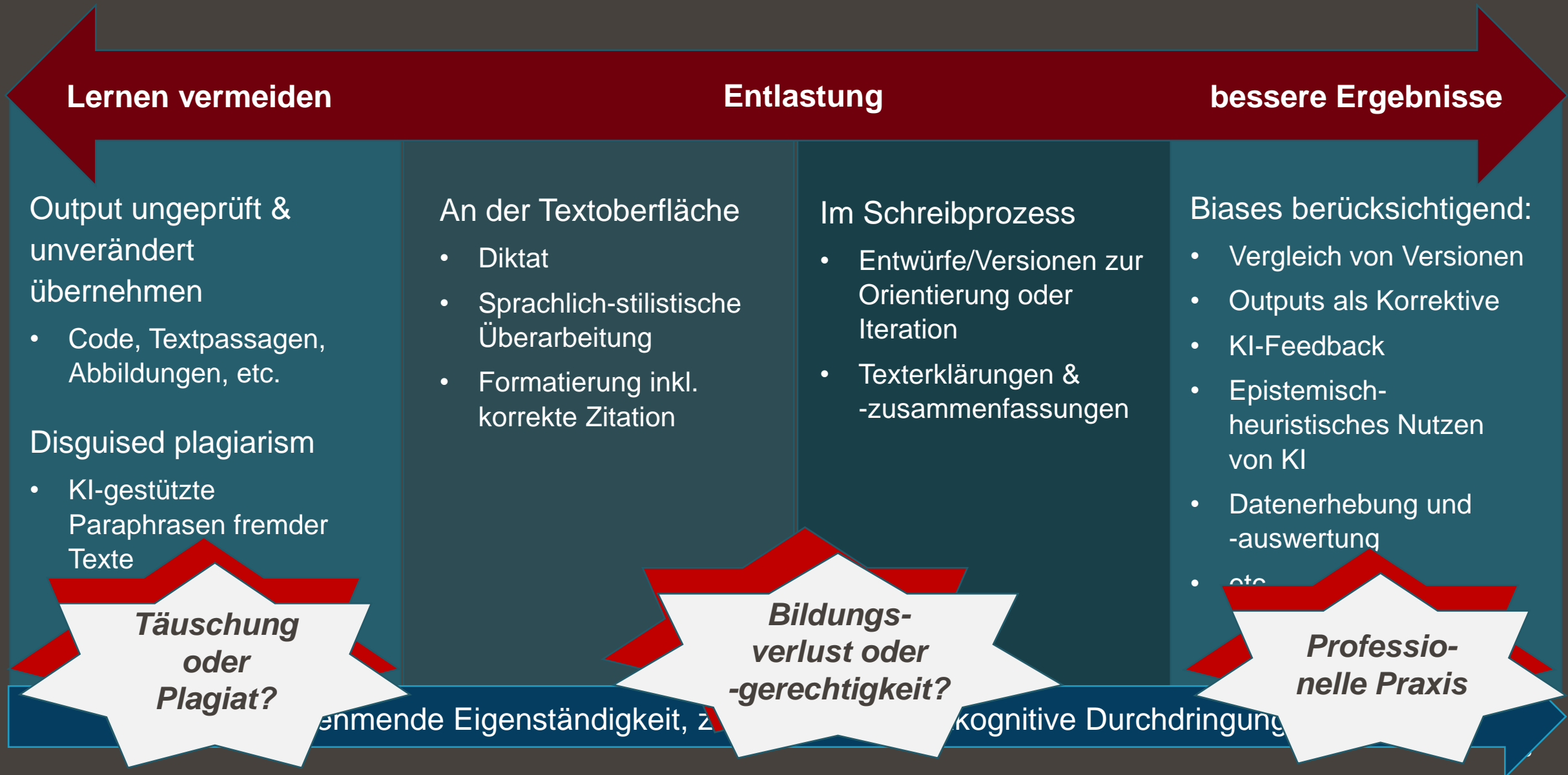


- Vollständiges digitales Weltwissen steht zu jedem Zeitpunkt zur Verfügung
- Assistenten jederzeit verfügbar

ZWISCHEN DESKILLING UND NEUER PROFESSIONELLER PRAXIS

KI in Schreibprozessen







verhindern

ermöglichen?

vermitteln

*Täuschung
oder
Plagiat?*

*Bildungs-
verlust oder
-gerechtigkeit?*

*Professio-
nelle Praxis*

HOW POSTDOCS USE AI CHATBOTS

A little less than one-third of the postdoctoral researchers polled said that they use artificial-intelligence (AI) chatbots, such as ChatGPT, for everything from translating text to fixing code and overcoming writer's block.

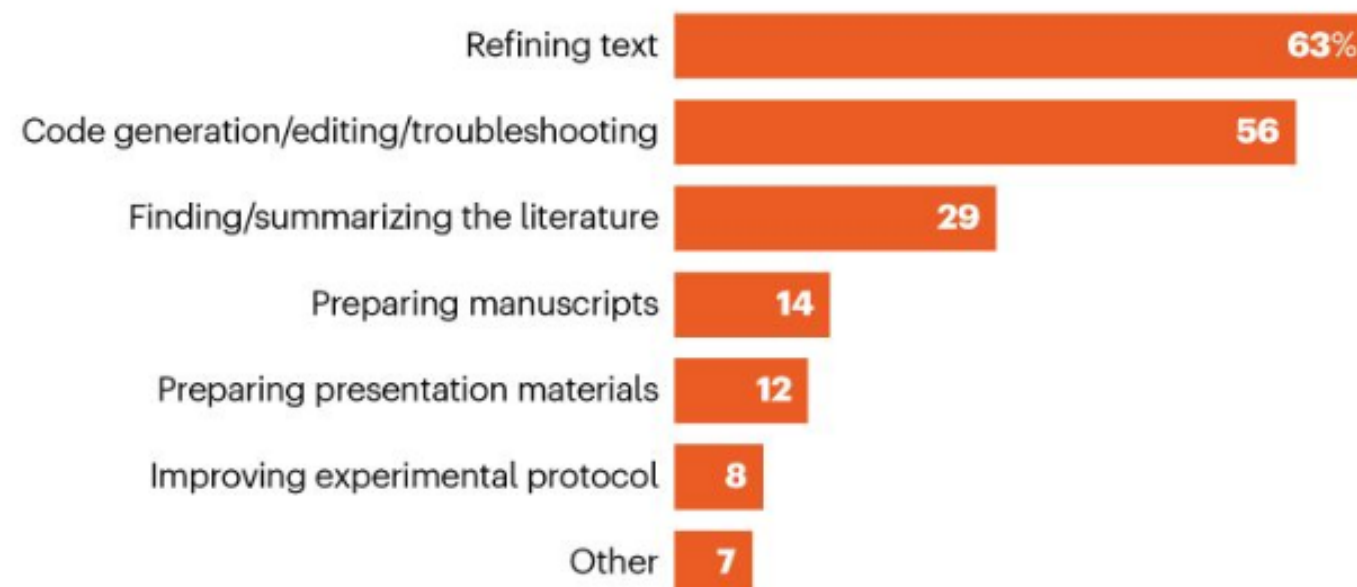
How has the evolution and rapid adoption of AI chatbots changed your day-to-day work or career plans, if at all?



Do you use AI chatbots, such as ChatGPT, in your work?

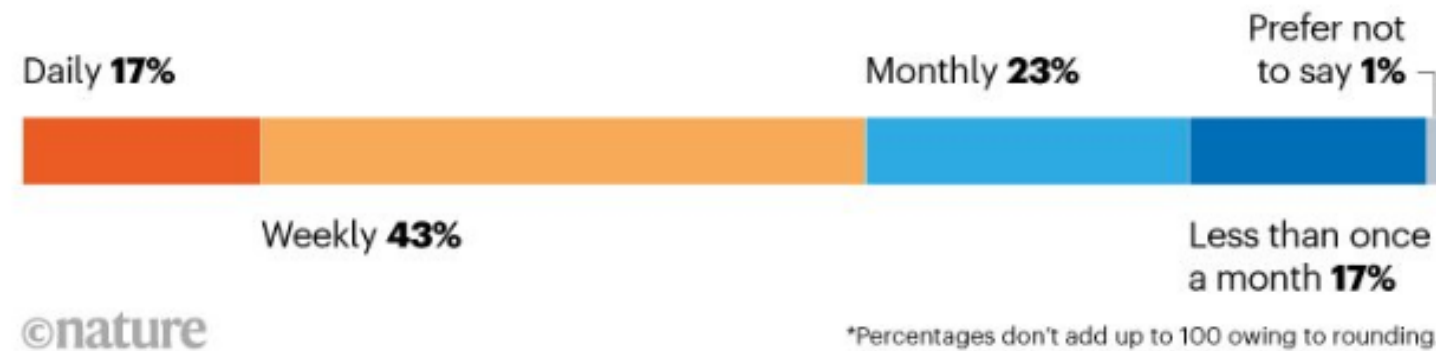


What do you use AI chatbots for?



Quelle: [Career resources for postdoctoral researchers \(nature.com\)](#)

How often do you use AI chatbots in your work?*

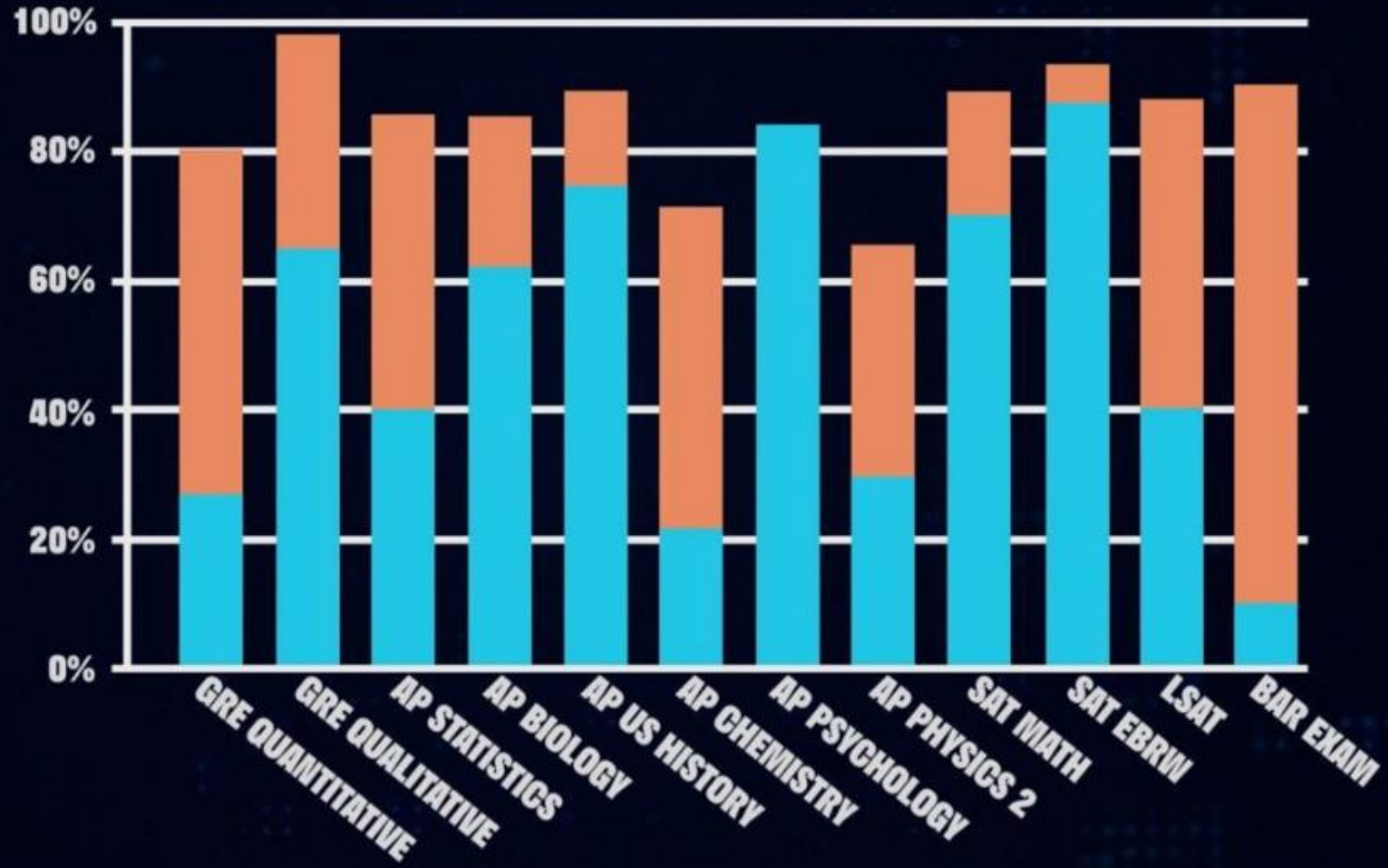


Quelle: [Career resources for postdoctoral researchers \(nature.com\)](https://www.nature.com/career-resources-for-postdoctoral-researchers)
> 3800 Befragte

Exam Results

GPT-3.5

GPT-4



Favoriten importieren | Platzieren Sie für den Schnellzugriff Ihre Favoriten in der Favoritenleiste. [Jetzt Favoriten verwalten](#)

Microsoft Bing

SUCHEN

CHAT

isabella_buc...



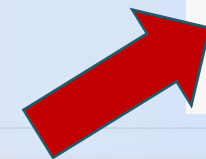
41



Mobiltelefon



Aktuelle Aktivität



mein wählerisches Kleinkind zubereiten, das nur orangefarbene Lebensmittel isst?"

"Was sind die Vor- und Nachteile der 3 meistverkauften Staubsauger für Tierhaare?"

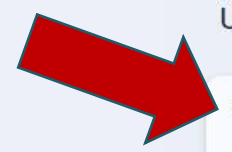
"Schreiben eines Haiku über Krokodile im Weltall mit der Stimme eines Piraten"

- Seitenzusammenfassung generieren 0:32 PM
- Wie kann ich ein PDF hier hochladen? 3. Okt. 2023

Lassen Sie uns gemeinsam lernen. Bing basiert auf KI, die Text und Bilder verstehen und generieren kann, sodass Überraschungen und Fehler möglich sind. Überprüfen Sie unbedingt die Fakten, und [Feedback teilen](#), damit wir lernen und uns verbessern können!

[Bedingungen](#) | [Datenschutz](#)

Unterhaltungsstil auswählen



Fragen Sie mich etwas...



0/2000



[Feedback](#)



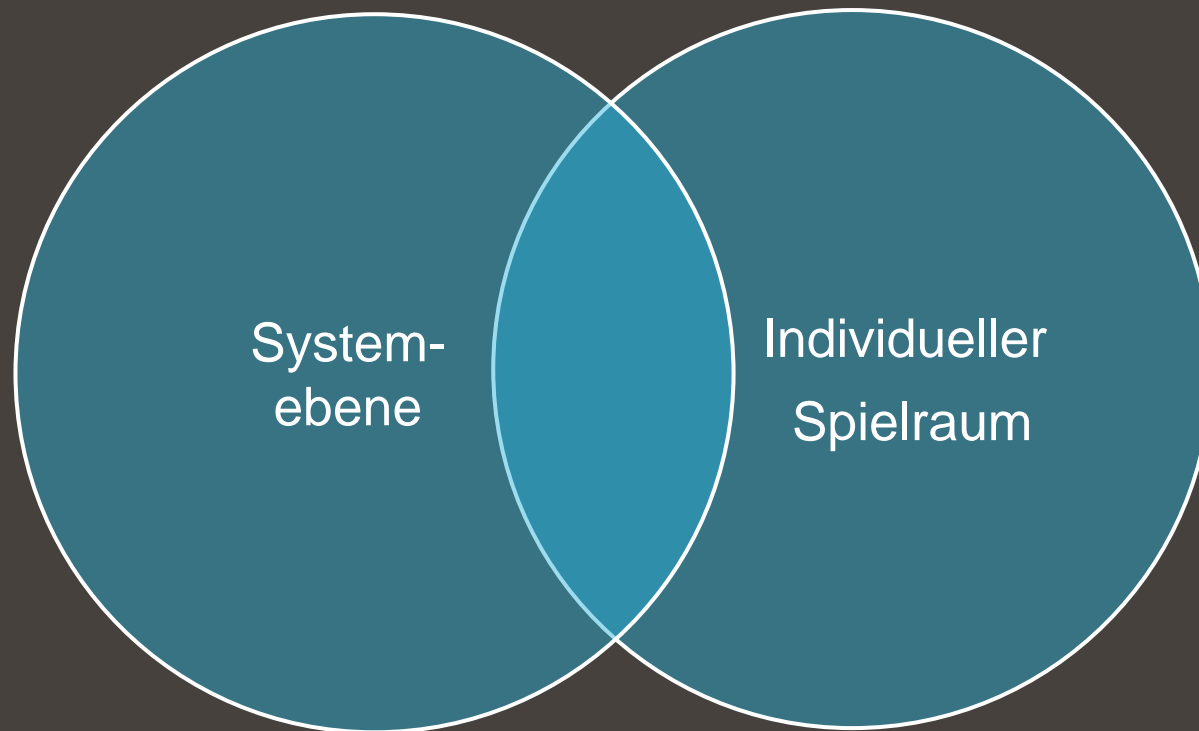
NEUE BILDUNGSZIELE?

KI-Mündigkeit:

- Kritisches Denken
- KI-Kompetenz
- Integration und Ko-Kreation

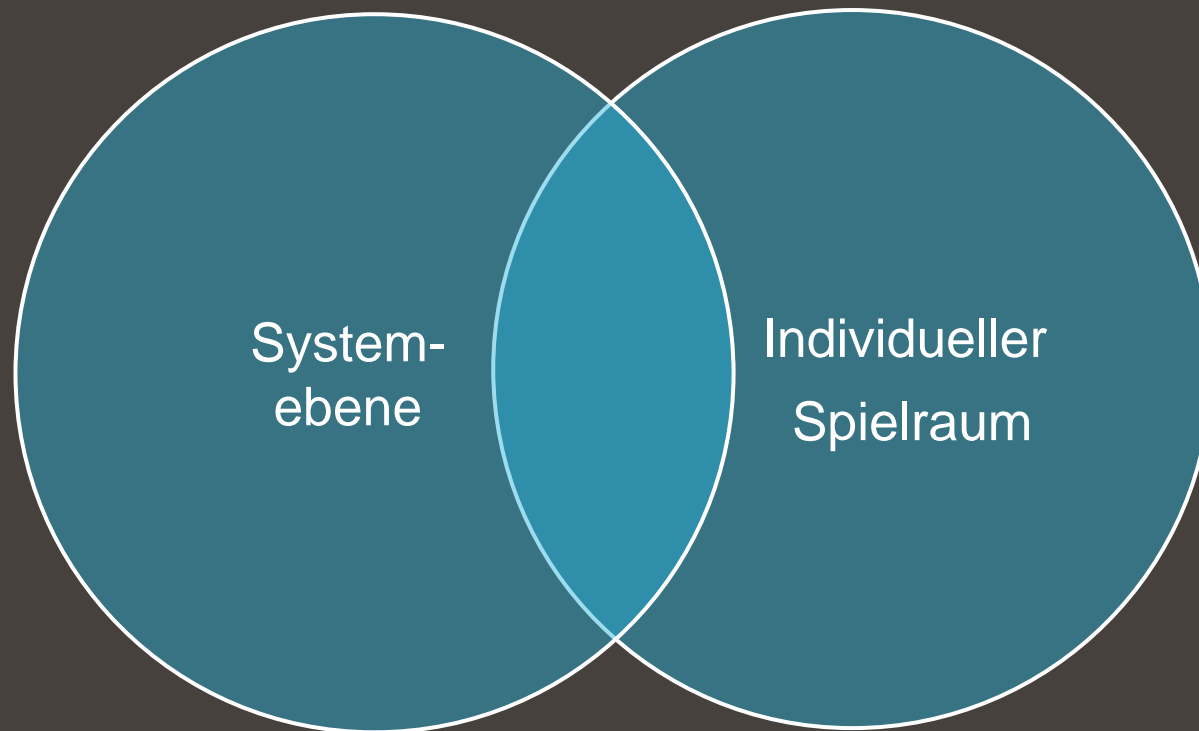
PRÜFUNGEN ZWISCHEN PRODUKT UND PROZESS

Ein lösbares und ein unlösbares Problem sowie Möglichkeiten, beide zu mildern



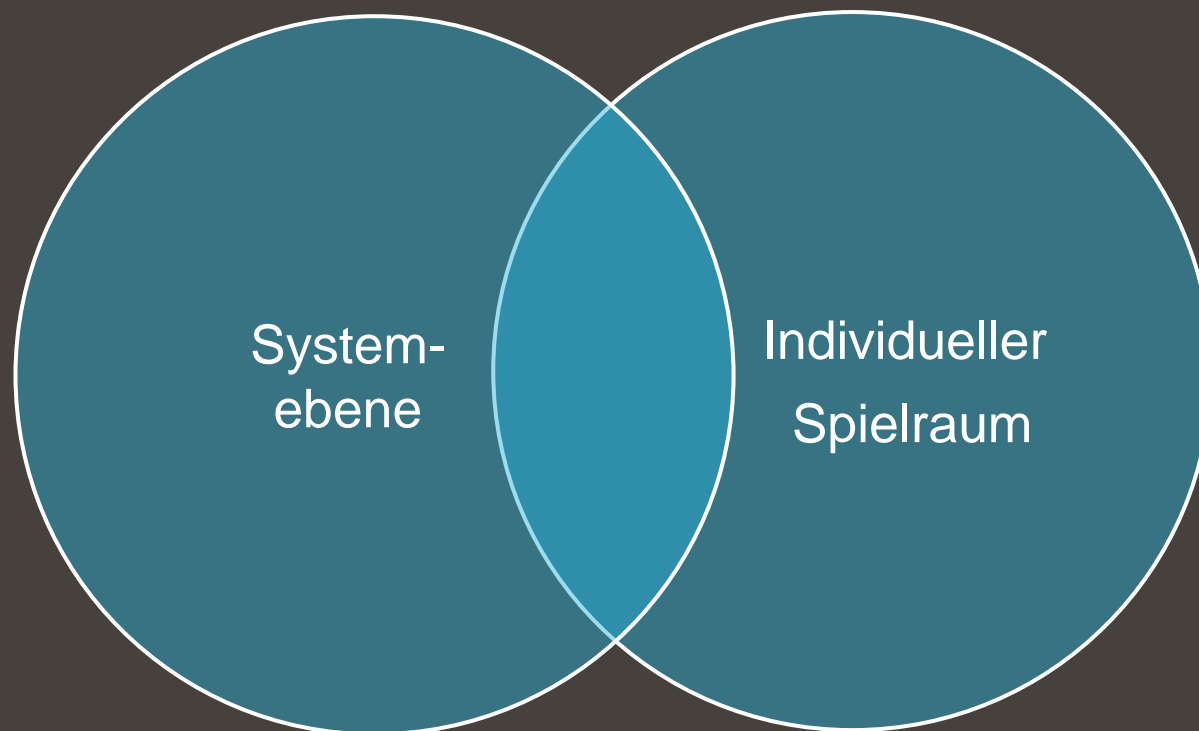
EIN LÖSBARES PROBLEM?

KI-Tools sind aus Datenschutz-, Nachhaltigkeits- und Menschenrechtsperspektive problematisch




EIN UNLÖSBARES PROBLEM

KI-Nutzung wird auch perspektivisch nicht nachweisbar sein



WAS MUSS HOCHSCHULWEIT GEWÄHRLEISTET SEIN?



System-
ebene

- Transparenz: Positionierung der Hochschulleitung
- Geteiltes Wissen & geteilte Haltung (Weiterbildung und Diskussion)
- Zugänglichkeit
- Datenschutz
- Curriculare Einbettung
- Freiraum in Prüfungsordnungen
 - Mdl. Anteile & Kombination von Prüfungsformen
 - Eigenständigkeitserklärung
 - Gewichtung

WAS KÖNNEN SIE TUN?

Individueller
Spielraum



III. AI Policy

I expect you to use AI (ChatGPT and image generation tools, at a minimum), in this class. In fact, some assignments will require it. Learning to use AI is an emerging skill, and I provide tutorials in Canvas about how to use them. I am happy to meet and help with these tools during office hours or after class.

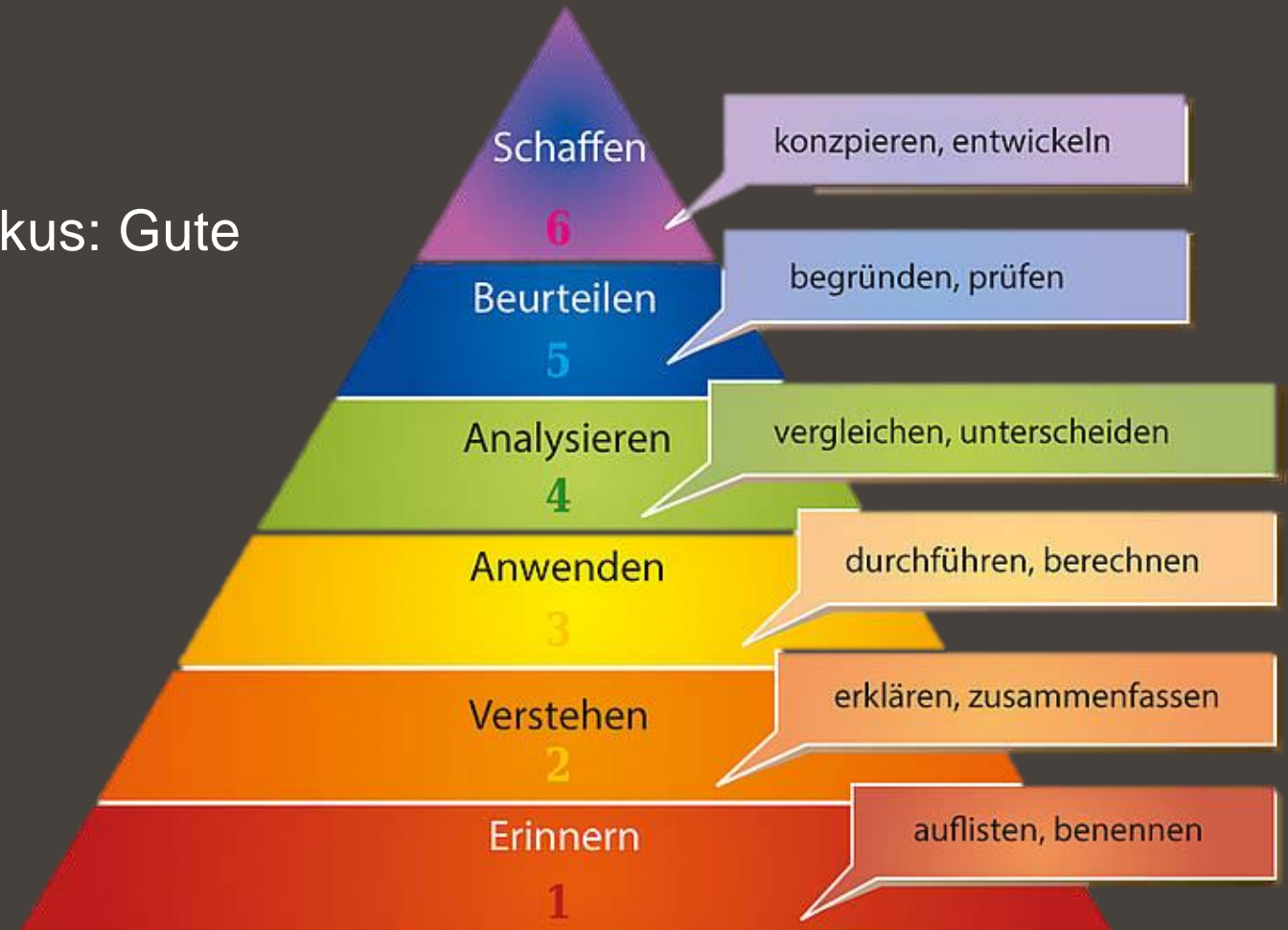
Be aware of the limits of ChatGPT:

- If you provide minimum effort prompts, you will get low quality results. You will need to refine your prompts in order to get good outcomes. This will take work.
- Don't trust anything it says. If it gives you a number or fact, assume it is wrong unless you either know the answer or can check in with another source. You will be responsible for any errors or omissions provided by the tool. It works best for topics you understand.
- AI is a tool, but one that you need to acknowledge using. Please include a paragraph at the end of any assignment that uses AI explaining what you used the AI for and what prompts you used to get the results. Failure to do so is in violation of academic honesty policies.
- Be thoughtful about when this tool is useful. Don't use it if it isn't appropriate for the case or circumstance.

([Ethan Mollick](#))

ANSPRUCHSVOLLE SCHREIBAUFGÄBE FORMULIEREN

- „Beautiful problems“
- die akademische Leistung im Fokus: Gute Wissenschaftliche Praxis und Verantwortung für den Text
- Interaktion mitdenken
- Grundlagen?



SCHREIBPROZESSE BEGLEITEN & REFLEXION EINFORDERN

- Betreuung, Kolloquium & Präsentation
- Reflexionstexte / Prozessportfolio
- Videos
- Gespräch



BEURTEILUNGSMABSTÄBE ANPASSEN

Beispiel Masterarbeit

| | 3 Punkte |
|---|--|
| Sprache | leserfreundlich, keine bis wenige Verstöße gegen Orthographie und Grammatik |
| äußere Form | den formalen Vorgaben voll entsprechend, vollständige und einheitliche Zitation |
| Fragestellung / Zielsetzung | deutlich erkennbare, präzise Fragestellung, mit hohem Anspruch (nicht deskriptiv, sondern bewertend) |
| Aufbau / Gliederung / Argumentationsgang | transparenter Aufbau, logisch gegliedert und zielgerichtet, „Roter Faden“ ist deutlich erkennbar |
| wissenschaftliche Erschließung | gründliche, ausführliche, zudem korrekte Quellen- und Literaturschließung und Diskussion, Klare Begriffsdefinition |
| Eigenständigkeit / Urteilsfähigkeit | eigenständige Analyse der Thematik, Nennung der wesentlichen Punkte |

KI-Tools entlasten hier vollständig

KI kann unterstützen, wenn Beurteilungskompetenz gegeben

KI kann zu besseren Ergebnissen beitragen

Mit Studierenden entwickeln, passend zum Kompetenzstand

AUSBLICK

AUSBLICK

- Fundamentale und extrem dynamische Veränderungen durch KI
- *Digital divide* als relevantes gesellschaftspolitisches Risiko
- Frage nicht „nutzen Studierende KI?“, sondern „wie nutzen Studierende KI?“



VIELEN DANK FÜR IHRE AUFMERKSAMKEIT!



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