LEARNING WITH AI.

USE OF CHATGPT AND THE LIKE FOR LEARNING.

iu
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21.5 PERCENT PERCEIVE ARTIFICIAL INTELLIGENCE IN EVERYDAY LEARNING.

Thanks to artificial intelligence (AI), learning programmes such as Babbel, Duolingo and DeepL offer personalised content and enable individualised learning, among other things. In a survey by IU International University of Applied Sciences, 21.5 % of respondents say they are aware of having experienced AI in their learning.
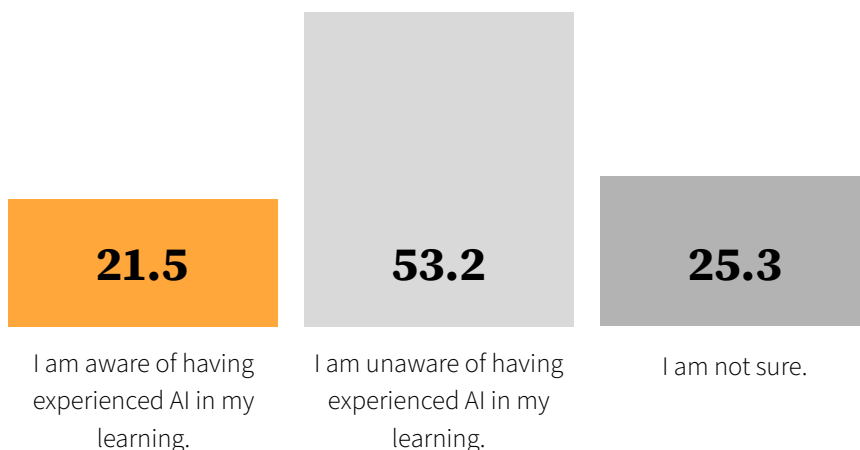
Overall, more than half of the respondents indicated that learning plays a very big role for them and is part of their everyday life.

52.5 %
of all respondents say that learning plays a very important role for them and is part of their everyday life. *

*Question: What is your basic attitude towards learning?

Are you aware of previously having experienced AI (artificial intelligence) in your learning? In %

21.5	53.2	25.3
I am aware of having experienced AI in my learning.	I am unaware of having experienced AI in my learning.	I am not sure.

Due to rounding off, there could be marginal deviations in the results.

Artificial intelligence (AI)
The ability of machines to imitate and autonomously perform human skills such as reasoning, learning, planning and creativity, and to respond adaptively to unknown situations.

AND WHAT ABOUT AI BOTS?

CHATGPT AND THE LIKE. MUCH DISCUSSED, LITTLE EXPERIENCE.

The American company OpenAI made ChatGPT publicly available at the end of last year. The AI bot very quickly gained popularity and is generating a lot of discussion since then. We wanted to know: Have respondents ever tried tools such as ChatGPT, Jasper Chat or Neuroflash – and if so, for what purposes?

The result: only 24.8 % of respondents have experience with AI bots, of which 34.9 % use them for learning or studying.

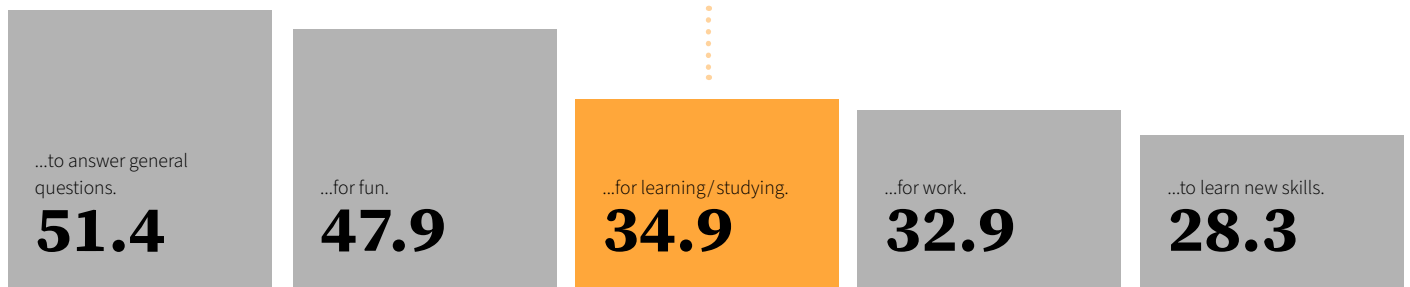**Do you use or have you ever used AI bots (e.g. ChatGPT)?**

24.8 % have used AI bots such as ChatGPT.

75.2 %

have never used AI bots such as ChatGPT.

KNOWLEDGE, PLEASURE, LEARNING: "I USE AI BOTS..."

Why do you use or have you used AI bots (e.g. ChatGPT)?
I use / have used them... In %: only respondents who have ever used AI bots, top 5 answers

...to answer general questions.	...for fun.	...for learning / studying.	...for work.	...to learn new skills.
51.4	**47.9**	**34.9**	**32.9**	**28.3**

Why do you use or have you used AI bots (e.g. ChatGPT) for learning / studying?
I use / have used them... In %: only respondents who use AI bots for learning / studying, top 7 answers

...for research / brainstorming.	...out of interest / curiosity.	...to learn new skills.	...to write text.	... for fun.	...for cross-checking.	...to prepare for exams.
59.8	**49.8**	**47.5**	**40.7**	**32.2**	**30.9**	**29.5**

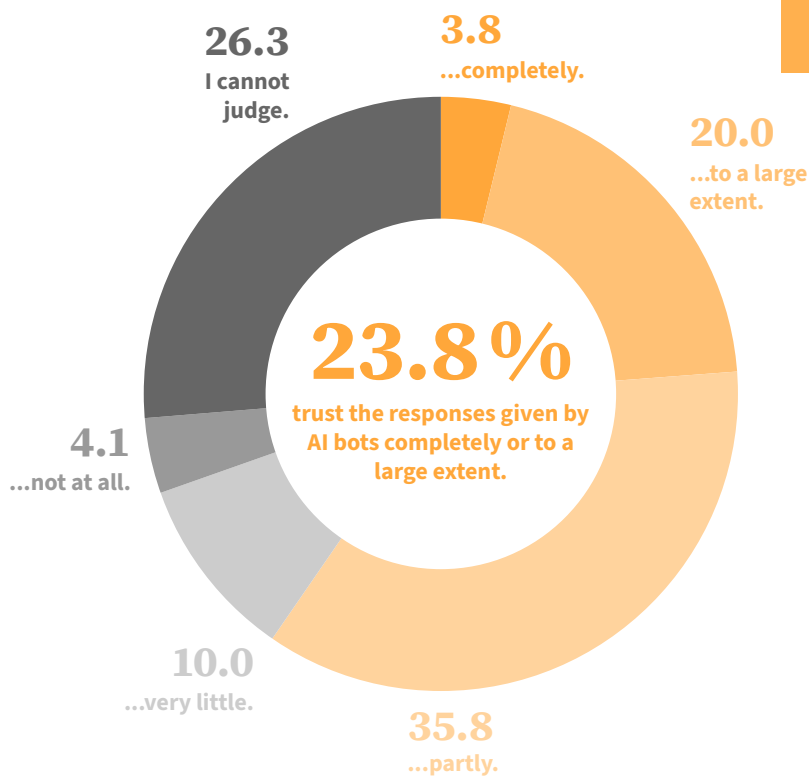## LEARNERS USE AI BOTS MAINLY FOR RESEARCH.

ALMOST A QUARTER OF RESPONDENTS TRUST AI BOTS.

When asked about trust and concerns, the results of the study show the following: **23.8 percent of those surveyed fully or largely trust these tools**. And: 26.3 percent of those surveyed cannot assess this.

Respondents' main concerns are about the interpretation of the questions by the AI, wrong answers and unclear sources.
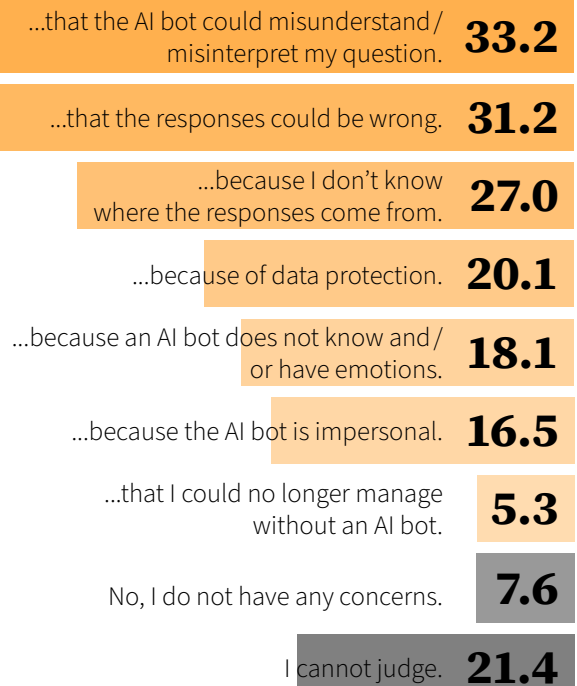
To what extent do you trust the accuracy of the responses given by AI bots (e.g. ChatGPT)? I trust the responses given by AI bots... In %

26.3 I cannot judge.

3.8 ...completely.

20.0 ...to a large extent.

23.8 % trust the responses given by AI bots completely or to a large extent.

4.1 ...not at all.

10.0 ...very little.

35.8 ...partly.

Do you have / would you have concerns about using AI bots (e.g. ChatGPT)? Yes, I have concerns... In %: top 9 answers

...that the AI bot could misunderstand / misinterpret my question.	**33.2**
...that the responses could be wrong.	**31.2**
...because I don't know where the responses come from.	**27.0**
...because of data protection.	**20.1**
...because an AI bot does not know and / or have emotions.	**18.1**
...because the AI bot is impersonal.	**16.5**
...that I could no longer manage without an AI bot.	**5.3**
No, I do not have any concerns.	**7.6**
I cannot judge.	**21.4**

> **Artificial intelligence has been at work in the background for some time, whether in search engines, speech recognition or navigation systems. ChatGPT is the first successful attempt to establish an AI initially used only in science as a widely available and direct dialogue partner for humans. ChatGPT is seeing faster growth in the number of users than any other tool in the history of the internet.**
>
> **However, it takes time and familiarisation to use AI bots in a meaningful way that adds value. We have to learn how to shift from just using the bot to search for information to engaging in dialogue with it in order to work out answers together. New users may therefore be overwhelmed at first. This is probably why trust in the responses of AI bots has been low so far, as the results of our short study show."**

Prof. Dr Kamal Bhattacharya
Professor of Computer Science and Vice-Rector, Research and Transfer, at IU International University of Applied Sciences
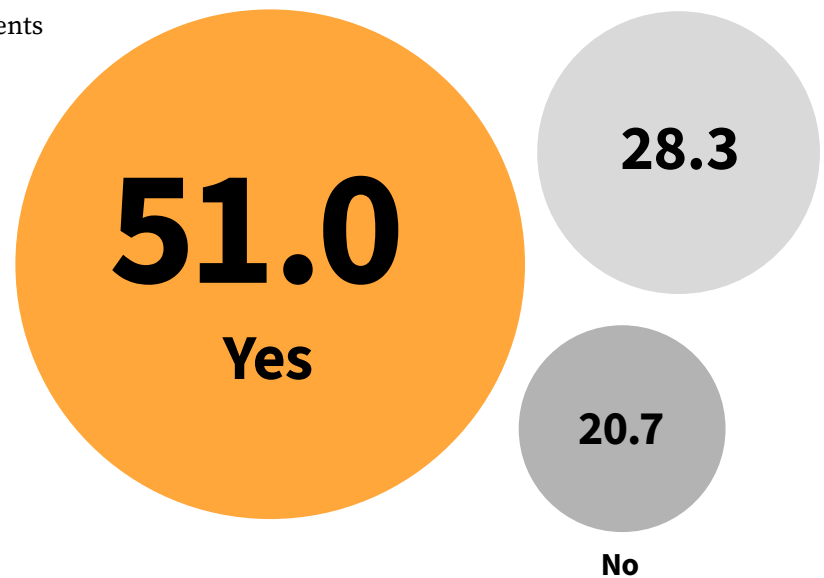
LEARNING WITH AN AI ASSISTANT.
A WELCOME ADDITION.

Man and machine in one? An AI-based digital learning assistant can assist with users' questions at any time. More than half of the respondents could envisage this kind of "personal support".
The main advantages mentioned by the respondents are: flexibility in terms of time and space and easier research.

I am not sure.

28.3

51.0
Yes

20.7

No

Could you imagine working with an AI-based learning assistant in school / study / training over an extended period of time? In %

"HEY AI, I HAVE A QUESTION…"

What advantages would an AI-based learning assistant offer you in your learning? In %: respondents who see advantages in learning through AI-based learning assistants; top 7 answers

24.3	Easier prioritisation of important content
29.8	Better understanding of connections between related content
30.2	Increased motivation thanks to the fun learning experience
32.4	Easy use on various devices
40.8	Less inhibited when asking questions
52.7	Easier research
53.6	Flexibility in terms of time and space

Prof. Dr Kamal Bhattacharya

Professor of Computer Science and
Vice-Rector, Research and Transfer,
at IU International University of Applied
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"CHATGPT HAS AMAZING ABILITIES…

…when it comes to finding consistent answers to problems in many fields, and it seems to know at least something about everything. But to some extent it is a universal tool and not specialised in one area.

In order to meet current and future requirements for AI-supported learning, much more than domain-specific knowledge is needed, and learning behaviour should also be modelled. Users learn in a variety of ways. And the learning assistants of the near future offer the possibility of personalising learning through dialogue."