## **QUICKSCAN - CANVAS**

# ChatGPT and the impact on education

**NAME:** ChatGPT and the impact on education DATE: July 12, 2025 5:03 AM

### **DESCRIPTION OF TECHNOLOGY**

OpenAI has trained a model called ChatGPT which interacts in a conversational way. The dialogue format makes it possible for ChatGPT to answer followup questions, admit its mistakes, challenge incorrect premises, and reject inappropriate requests. In this cycle we explore the impact of ChatGTP on society and specifically on (higher) education.

## **IMPACT ON SOCIETY**

Untill now people could go to Google to ask a question and get a lot of results to choose from. But ChatGPT will change this concept forever by giving a direct and automated answer to any question (including coding questions!) directly, based on a large language model that the model is trained upon. This is better than Google because it limits choices, it curates the answer and it is a system that is natural to interact with. But does it really solve a problem?

### HATEFUL AND CRIMINAL ACTORS

In an educational context, someone who cheats is a bad actor. CHATGPT is quite capable of writing essays or open book articles, so that's cheating. However, this 'problem' has been around for much longer with tools like Google, Translate and Grammarly. So the question is whether something will change in essence or whether it is simply an extra tool for cheaters (and thus a stimulus for educational innovation).

There are however other ways to use CHATGPT to break th...

## PRIVACY

Yes. There is a lot of data collected and it can be used in all kinds of ways. OpenAI is pretty clear and honest about that. See: https://openai.com/privacy/

### **DATA**

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- Students

- Teachers

- Parents

- Authorities

**HUMAN VALUES** 

can be outsourced?

about us, of course ....

**STAKEHOLDERS** 

As we are not the developers of this tool we cannot know everything about the underlying data. But, from what we know now, it looks like each users gets his/her own answer from the Al, because it is also building upon previous questions and answers. This might be a problem, because people can get stuck in their own bubbles because of that.

If information can be synthetically generated, what is then the

worth of it and what does it say about us as humans if even

those highly-humanized things like creating (text or images)

CHATGPT is a bullshitter (it creates Bullshit as meant by

Harry Frankfurt). We humans have a hard time distinguishing

human-generated bullshit from AI-bullshit. This says a lot

**INCLUSIVITY** 

The tool seems to be trained on a very large, but specific set of data. We have already seen some examples where the tool is favoring white males over females or people with color.

Most training material is biased on English source data. for example, when using it for outdoor questions on security of climbing, German is a dominant source language, but ChatGPT uses secondary, derived English sources.

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### TRANSPARENCY

Because the tool is trained on a very large dataset based on reinforcement learning and part of a capped-profit (formally nonprofit) company, total transparancy about how the technology works cannot be expected. During a 2016 conversation about the technological singularity, Altman said that "we don't plan to release all of our source code" and mentioned a plan to "allow wide swaths of the world to elect representatives to a new governance board".

### **SUSTAINABILITY**



How much energy does AI consume? A paper from the University of Massachusetts Amherst stated that training a single AI model can emit as much carbon as five cars in their lifetimes. ChatGPT is a big one, consuming probably more.

On the other hand, artificial intelligence (AI) can also be part of the solution, by calculating energy consumption solutions.

### **FUTURE**

The whole concept of education can change because of this tool. People have to re-think education in many ways.

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## QUICKSCAN - CANVAS - HELPSIDE hatGPT and the impact on education

**NAME:** ChatGPT and the impact on education **HUMAN VALUES** TRANSPARENCY DATE: July 12, 2025 5:03 AM How is the identity of the (intended) users affected by Is it explained to the users/stakeholders how the **DESCRIPTION OF TECHNOLOGY** technology works and how the business model works? the technology? OpenAI has trained a model called ChatGPT which interacts in a conversational way. The dialogue format makes it To help you answer this question think about sub questions - Is it easy for users to find out how the technology works? possible for ChatGPT to answer followup questions, admit its - Can a user understand or find out why your technology like: mistakes, challenge incorrect premises, and reject behaves in a certain way? inappropriate requests. In this cycle we explore the impact of - If two friends use your product, how could it enhance or - Are the goals explained? ChatGTP on society and specifically on (higher) education. detract from their relationship? - Is the idea of the technology explained? Does your product create new ways for people to interact?... - Is the technology company transparent about the way their... **IMPACT ON SOCIETY STAKEHOLDERS** •••• **SUSTAINABILITY** What is exactly the problem? Is it really a problem? Are Who are the main users/targetgroups/stakeholders for In what way is the direct and indirect energy use of this vou sure? this technology? Think about the intended context by... technology taken into account? Can you exactly define what the challenge is? What problem When thinking about the stakeholders, the most obvious one One of the most prominent impacts on sustainability is energy (what 'pain') does this technology want to solve? Can you are of course the intended users, so start there. Next, list the efficiency. Consider what service you want this technology to make a clear definition of the problem? What 'pain' does this stakeholders that are directly affected. Listing the users and provide and how this could be achieved with a minimal use of technology want to ease? Whose pain? Is it really a problem? directly affected stakeholders also gives an impression of the energy. Are improvements possible? For who? Will solving the problem make the world better? Are intended context of the technology. you sure? The problem definition will help you to determine... . . . **FUTURE** HATEFUL AND CRIMINAL ACTORS **DATA** 59 In which way can the technology be used to break the Are you familiar with the fundamental shortcomings and What could possibly happen with this technology in the law or avoid the consequences of breaking the law? pitfalls of data and do you take this sufficiently into... future? Can you imagine ways that the technology can or will be used There are fundamental issues with data. For example: Discuss this guickly and note your first thoughts here. Think about what happens when 100 million people use your to break the law? Think about invading someone's privacy. Spying. Hurting people. Harassment. Steal things. Fraud/ Data is always subjective; product. How could communities, habits and norms change? identity theft and so on. Or will people use the technology to - Data collections are never complete; avoid facing the consequences of breaking the law (using Correlation and causation are tricky concepts; trackers to evade speed radars or using bitcoins to launder... - Data collections are often biased:... Â FIND US ON WWW.TICT.IO PRIVACY **INCLUSIVITY** Does the technology register personal data? If yes, what Does this technology have a built-in bias? THIS CANVAS IS PART OF THE TECHNOLOGY IMPACT personal data? CYCLE TOOL. THIS CANVAS IS THE RESULT OF A If this technology registers personal data you have to be Do a brainstorm. Can you find a built-in bias in this QUICKSCAN. YOU CAN FILL OUT THE FULL TICT ON aware of privacy legislation and the concept of privacy. Think technology? Maybe because of the way the data WWW.TICT.IO hard about this question. Remember: personal data can be was collected, either by personal bias, historical bias, political interpreted in a broad way. Maybe this technology does not bias or a lack of diversity in the people responsible for the

design of the technology? How do you know this is not the

case? Be critical. Be aware of your own biases....

collect personal data, but can be used to assemble personal

data. If the technology collects special personal data (like...





