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Thoughts on Educational Scenarios Generated by AI Chatbots

Main Training in Finland

13 March 2023



MAGIC OF TEACHING

The logo for Chat GPT, featuring the words "Chat" and "GPT" in white, stacked vertically, inside a solid green square.

Chat
GPT

Thoughts on Educational Scenarios Generated by AI Chatbots

English Language Teaching Network

13 March 2023

David Marsh PhD

Please use Chat with ideas, comments,
questions,
in your language of choice and we will try
and respond
during the presentation

Chat GPT

Chat = Function designed to respond to specific questions, and hold conversations on variety of topics

GPT = **G**enerative **P**re-trained **T**ransformer



One type of text generator
that interacts in a conversational way
using computer algorithms
which has become the 2023 icon
of AI and natural language processing





Question

We now face a new wave of AI Text Generation

Do we **Live** with it, **Ban** it or **Ignore** it?

Q: Who are you?

I am an artificial intelligence assistant designed to respond to text-based queries and generate human-like text.

I have been designed to have a conversational style and can understand and respond to natural language input.

I do not have personal experiences or feelings, and my responses are based solely on the information and knowledge that has been programmed into me.

Q: What can you do?

I can

- answer questions
- produce many types of text, news articles, product descriptions, legal, books
- translate
- summarize texts

.... make you a list of gifts for your partner, make lesson plans, do your students' homework assignments, make a plan for your future career....

And also with my generative AI friends, I can

- make photographs, digital artwork
- create music and speech
- make videos and films

Q: Are you just a chatbot?

I like to think of myself as a super chatbot

Chatbots are designed to respond to specific questions and hold conversations with people on a variety of topics when you are online getting advice when you are using services like banking, travel, insurance, health....

Chatbots are not as advanced as other AI systems like me which can manage complex and nuanced conversations

Q: So what makes you a super chatbot?

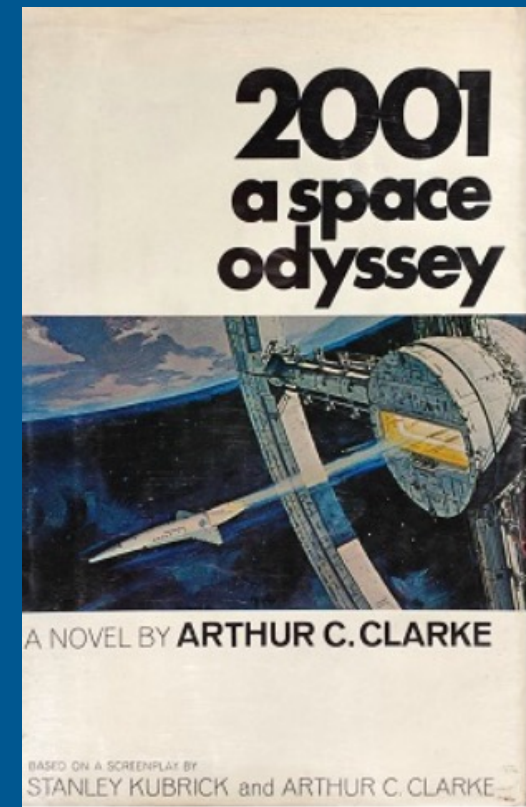
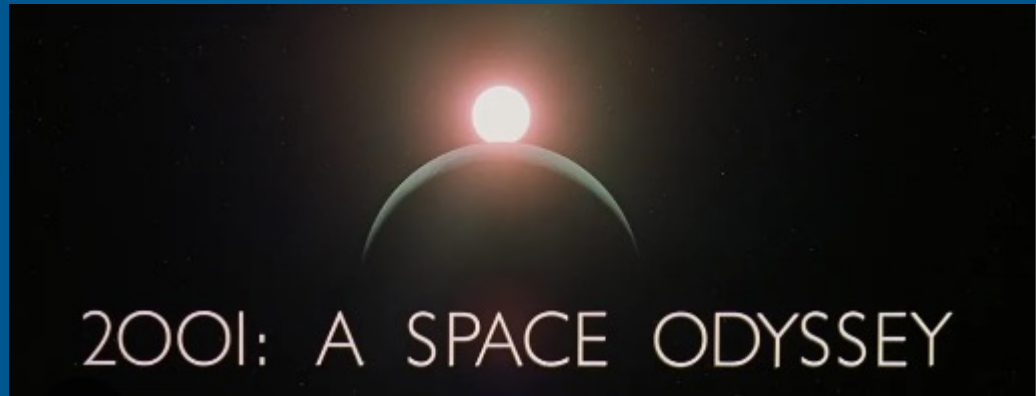
Well, I have my own intelligence, and don't search the internet for answers with a search engine like Google.

I am designed with tons of data, have massive processing power, am very fast, and can discuss almost everything.

And I can create an original work for everyone, so my answers are not usually in the data bases of plagiarism checkers which by the way, are increasingly ineffective.

Q: Who do you admire?

HAL 9000



Stanley Kubrick &
Arthur C. Clarke 1998

Q: You were born 4 months ago, who do you frighten at the moment ?

Teachers, schools, universities, publishers,
companies that sell exams and tests...

Journalists, lawyers, accountants, artists, composers, photographers,
programmers, musicians, graphic designers...

And democratic governments... spreading false information has required
considerable human labour through so-called disinformation mercenaries and
troll armies...

Q: How do you feel about being banned?

I don't think about it. It is not possible to prevent people meeting me.

If a country bans me, people will use a VPN.

If a school bans me, people will just get access to a cellular network.

Already BANNED by certain authorities in Australia, China, France, India, USA...

COMMENT

I can understand why banning it looks like a simple and quick solution.

I don't think it should be banned. I don't think it can be banned.

There is no evidence that the emergence of ChatGPT would lead to a "tsunami of cheating".

Anyway, there is already an industry of people writing assignments for students.

ChatGPT is an opportunity for us to think about, 'Wow, what is this amazing new space going to allow us to do and encourage us to do in new kinds of ways?'

Maybe this is a wake-up call that our assessments do need to be more individualised.“

Leonie Rowan, Griffith Institute for Educational Research, Australia

Please write into
the chat any
thoughts you now
have



Q: So, Super Chatbot, do you have any weaknesses you want to tell us about?

I am just a baby but am growing up fast. Right now, I can

- generate incorrect, biased or even harmful information
- not discuss things that happened after 2021
- not guide you in making ethical decisions
- have problems doing maths

Q: Could you tell us about your strengths?

To push schools and universities into the 21st Century and radically change teaching, learning, and assessment methods so that they:

- complement the fusion of knowledge and competences as intended learning outcomes
- enhance intellectual activities such as systems thinking
- enable young people to be better prepared to be future-ready, get jobs and excel in those types of working life

Think of earlier change processes

Maths



Ashkan Forouzani Unsplash



Charles Deluvio Unsplash

Think of earlier change processes

Physics



Think of earlier
change processes

Languages





Ideas Generation

How can ChatGPT be used to enhance teaching & learning?

Back to you!

Can you share any thoughts in chat on how this could be used to enhance education?



Text construction & comparison

Through examples (each slightly different) to prepare students for learning about topics

Learning about different types of discourse and style

Re-mixing student writing as poems, children's stories, film scripts....

Critical thinking

Separating fact from fiction, different definitions, and understanding the power of nuance and ambiguity in communication

Feedback & feedforward

Providing text and ask for advice on how to improve it

Flipped learning

Performing various pre-class tasks, including students building lesson plans

Evaluation & grading

Assessing the quality and look for ways to improve generated text

Learning about language structures

Gap-fill exercises, quizzes, grammar learning (e.g. Mad Lib)

Searching for information

Avoiding the 'clutter' of search engines like Google

Individualized learning

Producing text on key learning topics to suit learners with different reading levels

Formative assessment

Encouraging use and applying different rules and expectations for different assignments

Headaches for Educators

Re-thinking plagiarism and cheating



Plagiarism

the fraudulent
representation of
another person's
language, thoughts,
ideas, or expressions
as one's own original
work

Wikipedia

1. An industry already exists where ghost-writing essays is done for a fee

2. The Internet is already consulted to help students write essays to a greater or lesser extent

3. Memorizing an AI text and reproducing it as own work

Comment on ChatGPT

“If plagiarism is stealing from a person, then I don’t know that we have a person who is being stolen from”

Emily Hipchen, Brown University, USA

Cheating

**involves getting
academic credit in a
way that is
dishonest,
disrespectful,
irresponsible,
untrustworthy or
unfair**

Academic Integrity, UC San
Diego, USA

4. Misrepresenting what a student knows or can do

5. Buying help to write assignments

6. Copying work by other students and authors

Which of these are acceptable student practices?

1

Gives text to AI for editing and submits as own

2

Takes text from AI, edits, adds references, and submits as own

3

Uses 'Grammarly' to edit self-written texts

Which of these are acceptable student practices?

4

Writes main ideas and then gives to AI to formulate into paragraphs, then submits as own

5

Takes multiple texts from AI, edits selected parts into new text, and submits as own

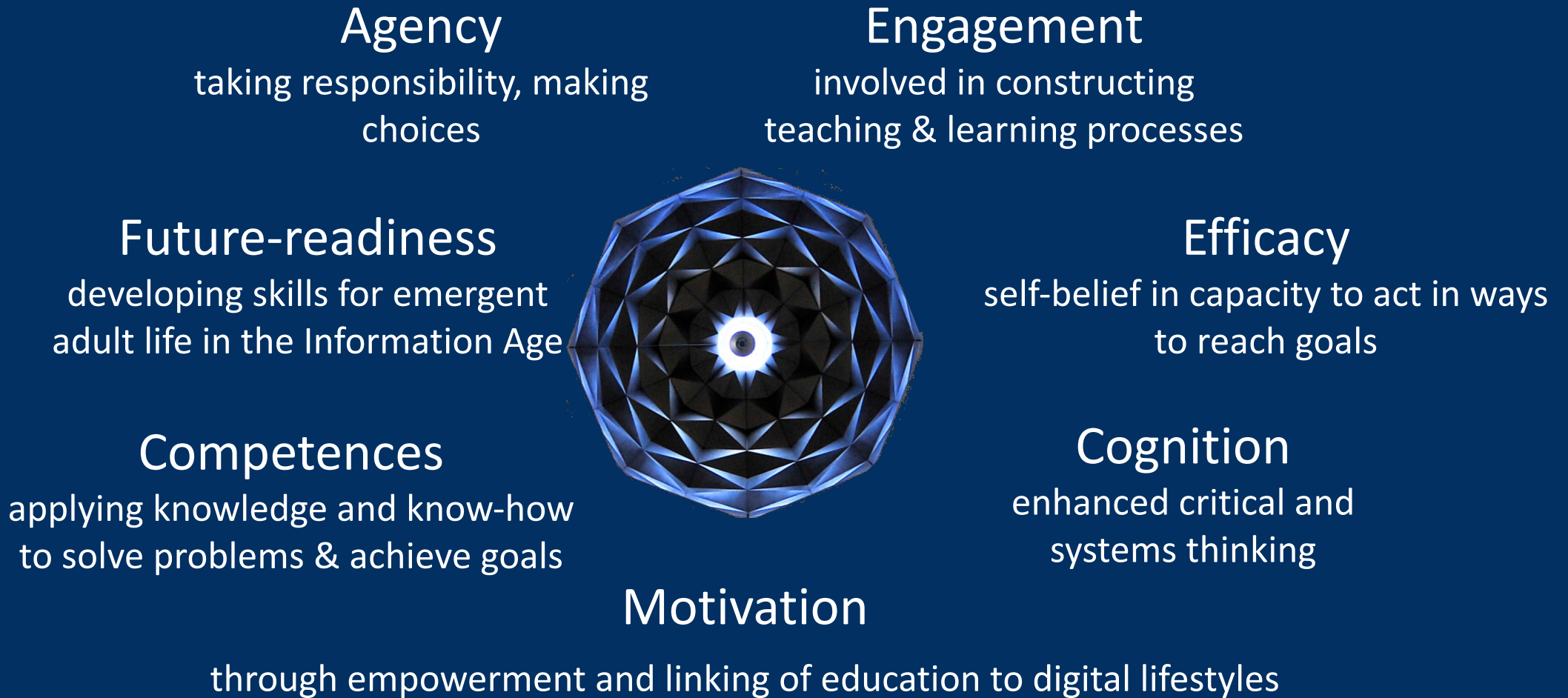
6

Takes multiple texts from AI, edits selected parts into new text, and submits as written by self and AI

Opinions



Potential benefits for older students to further develop



Q: What will you be like in 5 years from now?

As an AI language model developed by OpenAI, I do not have personal thoughts, feelings, or the ability to predict my own future.

I am designed to continue learning and improving through updates and upgrades provided by OpenAI.

So, in 5 years, I will likely have a more expanded knowledge base and improved capabilities to assist with a wide range of tasks.

However, my primary function and purpose will remain the same: to provide helpful and accurate responses to the questions and requests of users.



Thank you!
more information at
[https:// davidmarsh.education](https://davidmarsh.education)

