

The Impact of AI on Education: Benefits and Challenges



Al tools:

Using AI in Education to tackle some of the big educational challenges

2

Increasing Human Intelligence:

Changing Education so that we focus on human intelligence and prepare people for an Al world

3

Learning about Al:

Educating People about AI so that they can use it safely and effectively

Artificial intelligence in Education



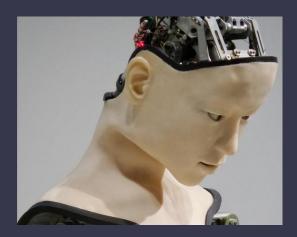


But first..
What is Artificial
Intelligence (AI)?





EC High-Level Expert Group on Artificial Intelligence definition within the European Commission's Communication on Al



https://ec.europa.eu/futurium/en/system/files/ged/ai_hleg_definition_of_ai_18_december_1.pdf

"Artificial intelligence (AI) refers to systems that display intelligent behaviour by <u>analysing</u> their environment and taking actions – with some degree of autonomy – to achieve specific goals.

Al-based systems can be purely softwarebased, acting in the virtual world (e.g. voice assistants, image analysis software, search engines, speech and face recognition systems) or Al can be embedded in hardware devices (e.g. advanced robots, autonomous cars, drones or Internet of Things applications)."

And Al is not new!





Also, Al in Education is not New





Al can sense behaviours based on multiple sources of data then advise/recommend





What is Generative AI?

Al that creates new content of human like quality

But scaled technology that is freely available, such as ChatGPT, is new.







Design a worksheet to practice the formation of the imperfect subjunctive in Spanish, include instructions on formation rules and examples of use



CHATGPT

Absolutely, here's a worksheet that focuses on the formation rules of the imperfect subjunctive in Spanish, along with examples of its use:

Worksheet: Formation and Usage of the Imperfect Subjunctive

Part 1: Formation Rules

Instructions: Complete the following sentences by conjugating the verbs in parentheses into the imperfect subjunctive tense. Follow the formation rules for each subject.

- Yo quería que ella _____ (estar) feliz.
- 2. Ellos deseaban que tú _____ (venir) con nosotros.
- Ella prefería que yo no _____ (decir) nada.



Let's look at Al more generally

Am I using AI already?



Examples of AI in use now: Predictive text, Grammarly, Otter.ai **Email assistants** Image search (e.g. google lens) **ChatGPT** Digital voice assistants e.g. Google or Alexa Text to speech tools **Translation tools**



How can Al be used in Education?



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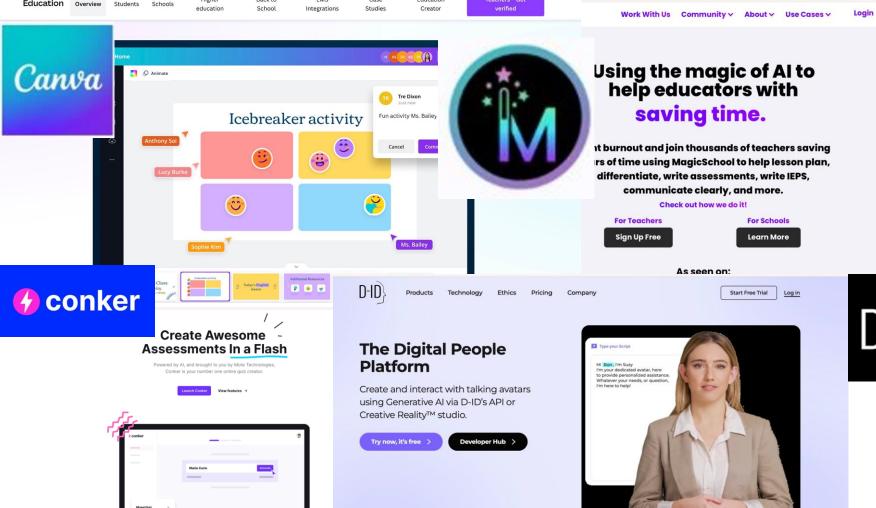
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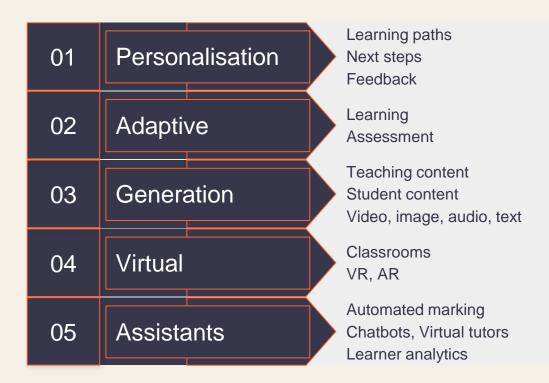






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Examples of AI tool functionality

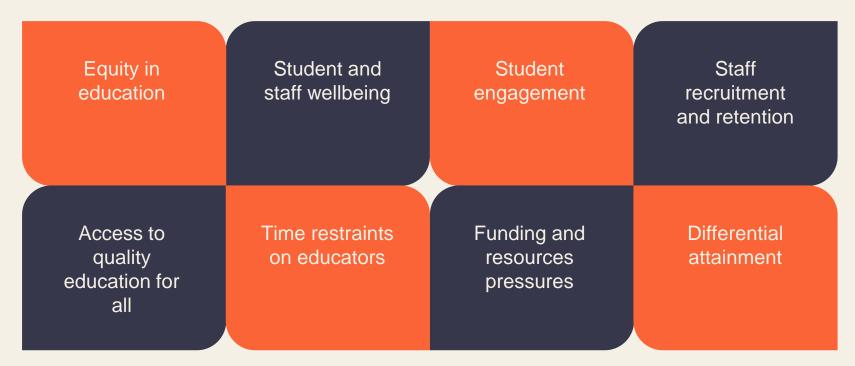




How can these tools be used?



Educational challenges



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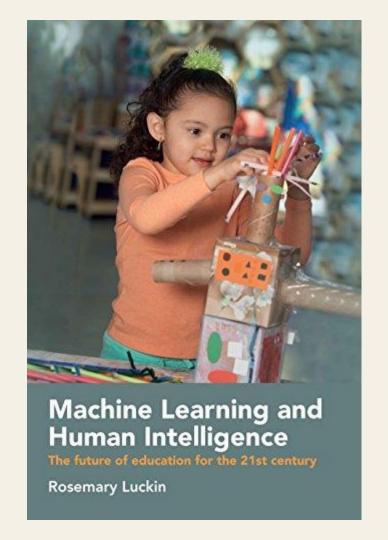
increasing Human Intelligence

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Learning is Complex and Human teachers are vital

Our ability to learn must continue to evolve to be ever more sophisticated

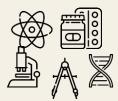




3. Social intelligence



2. Meta-knowing intelligence



1.Interdisciplinary Academic intelligence







5. Meta-subjective intelligence





6. Meta-contextual intelligence



7. Perceived self-efficacy



The future is uncertain



Caution

"Unlike most non-human biological cognition, human cognition is changing: the average IQ in many countries is increasing (the Flynn effect), our memory (Sparrow et al. 2011) is changing due to the Google effect (digital amnesia), navigation abilities (McKinlay 2016; Milner 2016) atrophied because satnavs, cognitive rewards mechanisms are changing because of gamification, etc. This is a process that is accelerated by technology, and will be magnified by the use of cognitive assistants and cognitive prosthetics, especially for the elderly. AI itself and human-machine hybrids (either as individual cyborgs or as mixed collectives) are progressing in directions that we are not able to compare with the past or extrapolate, in order to understand where all this is leading, and the associated opportunities and risks (research priorities and safety concerns)."

Bhatnaga et al., 2018



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How might we go about that?





How should we consider ethics when using AI?

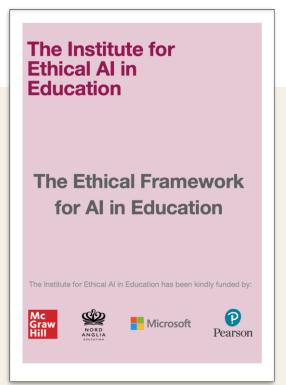
IOE professor co-founds the UK's first Institute for Ethical

Artificial Intelligence in Education

18 October 2018



conceived by Sir Anthony Seldon, Priya Lakhani OBE, and Professor Rose Luckin



FREE TO DOWNLOAD https://www.buckingham.ac.uk/wp-content/uploads/2021/03/The-Institute-for-Ethical-Al-in-Education-The-Ethical-Framework-for-Al-in-Education.pdf

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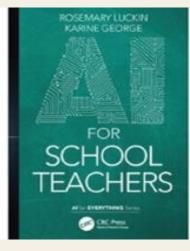
hello@educateventures.com



Some useful resources







Book

https://www.routledge.com/Al-for-School-Teachers/Luckin-George-Cukurova/p/book/9781032037714

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Thank You



