



Presented at the FIG Working Week 2023,
28 May - 1 June 2023 in Orlando, Florida, USA

FIG WORKING WEEK 2023

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Protecting
Our World,
Conquering
New Frontiers

AI in Education and Surveying

Impact and Challenges

Presented by Kate Fairlie *for Peta Cox (and ChatGPT)*



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Generative AI

979,454 followers

5d • 🌐



what do you think?



Yann LeCun ✓

@ylecun



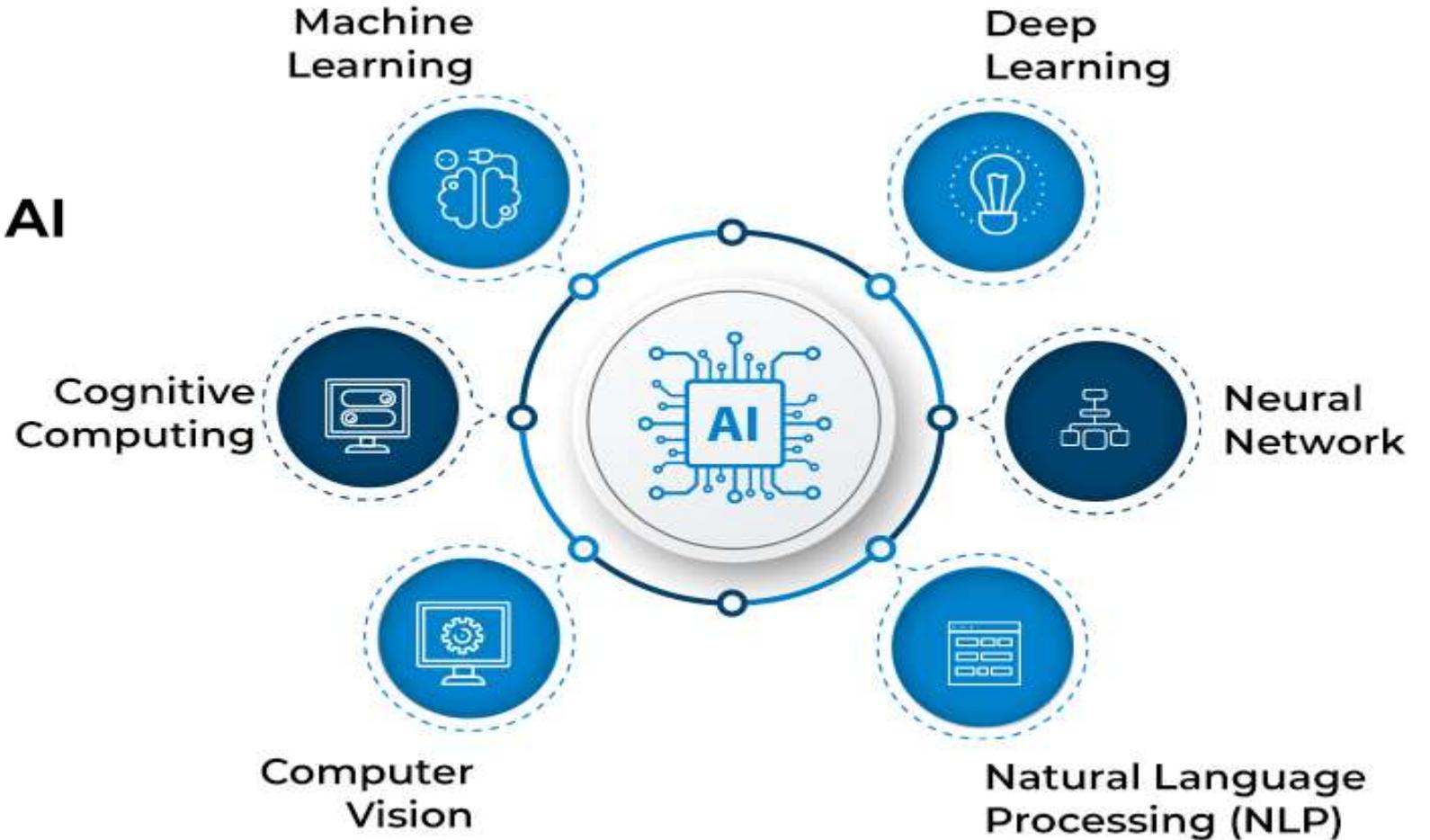
- Engineer: I invented this new thing. I call it a ballpen 🖋️
- TwitterSphere: OMG, people could write horrible things with it, like misinformation, propaganda, hate speech. Ban it now!
- Writing Doomers: imagine if everyone can get a ballpen. This could destroy society. There should be a law against using ballpen to write hate speech. regulate ballpens now!
- Pencil industry mogul: yeah, ballpens are very dangerous. Unlike pencil writing which is erasable, ballpen writing stays forever. Government should require a license for pen manufacturers.

Outline

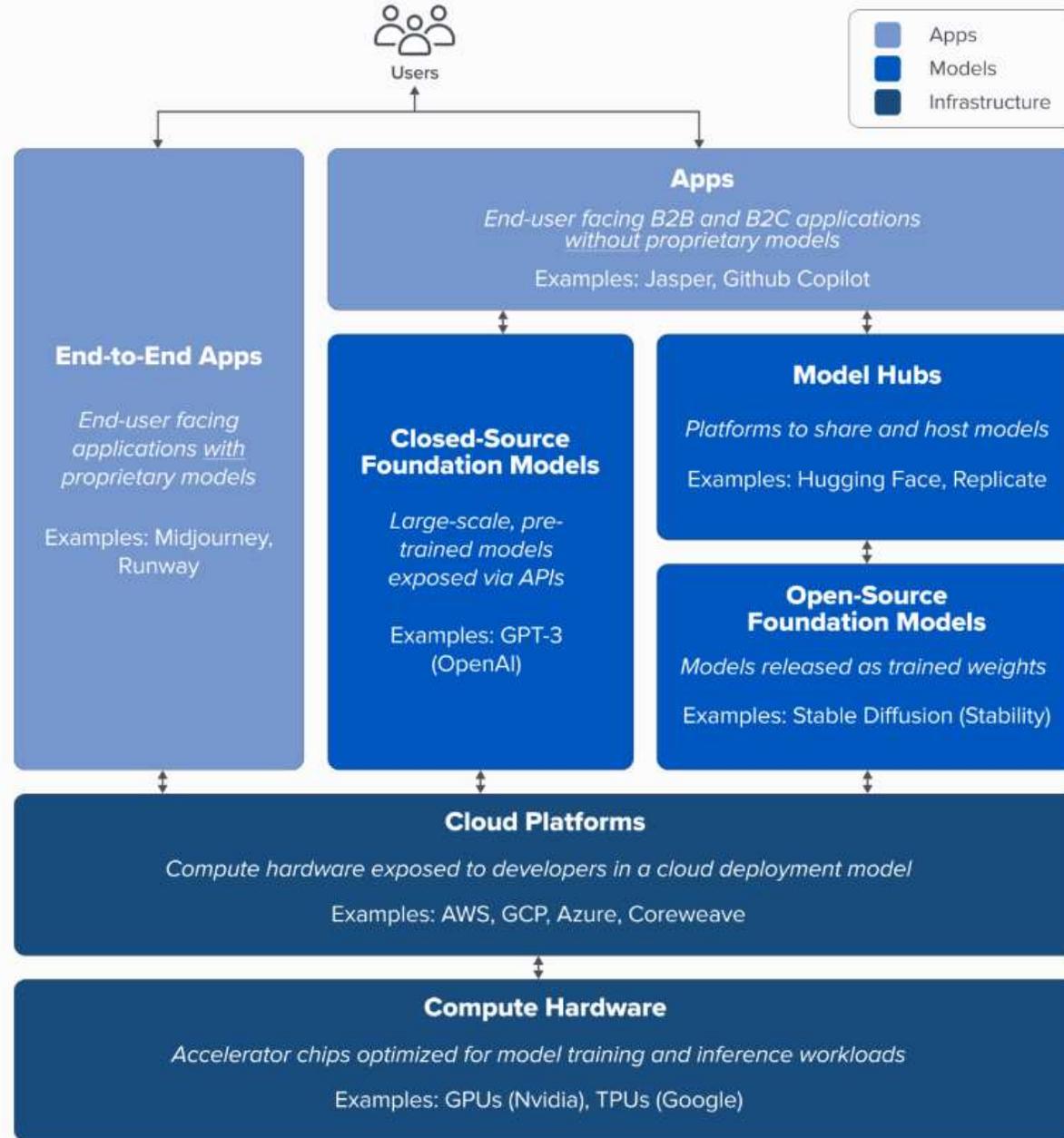
- Let's start with AI in Education and Surveying
 - What is it?
How is and can it be used to benefit teachers and students?
- So will AI make students less smart?
- Monitoring students using AI: some benefits and concerns
- Call to Action: Using AI for good in the surveying education sector

Let's start with AI in Education and Surveying

KEY COMPONENTS OF AI



Preliminary generative AI tech stack



Let's start with AI in Education and Surveying

WHAT CAN THIS MEAN IN PRACTICE?



Hi ChatGPT, can you help me with my surveying paper?



Of course! I'd be happy to help you with your surveying paper. Please let me know what specific assistance you need, whether it's brainstorming ideas, structuring your paper, or addressing any specific questions or concerns you have. The more details you can provide about your surveying paper, the better I can assist you.

Let's start with AI in Education and Surveying

Benefits to Students

Personalised learning

Maintain motivation and engagement

Real time feedback

Track progress and adjust learning strategies

Accessibility

Better access to data and learning opportunities

Future proofing

This is the future – get ahead now

Benefits to Teachers

- Save time, improve accuracy and consistency of grading
- Better identify where students are struggling
- Assistance to develop more engaging and interactive learning experiences

Let's start with AI in Education and Surveying

WHAT CAN THIS MEAN IN PRACTICE?

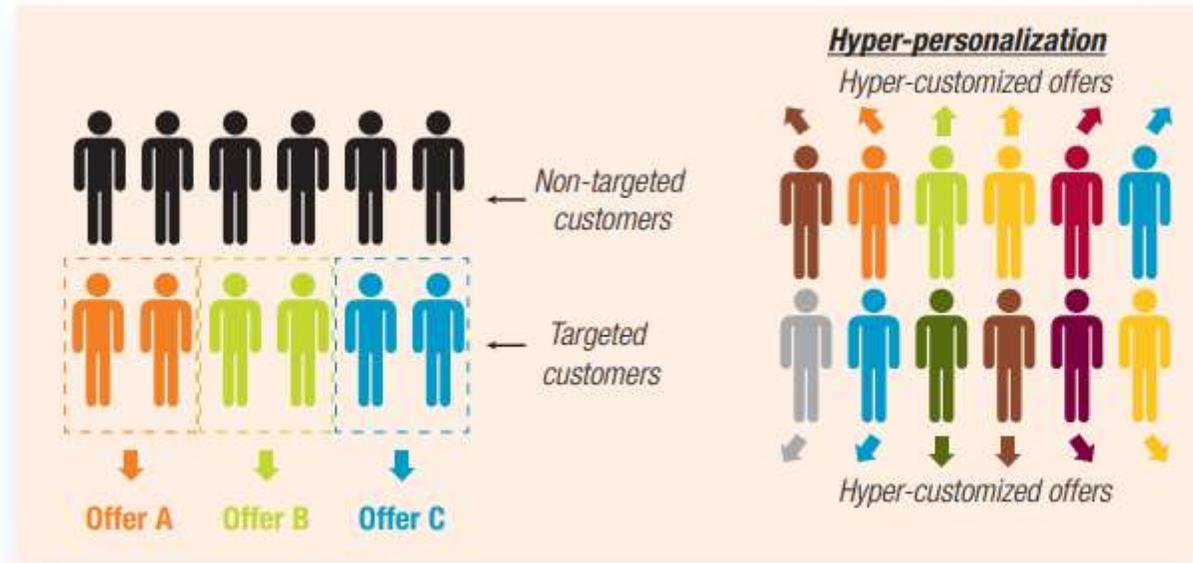
#1



Let's start with AI in Education and Surveying

WHAT CAN THIS MEAN IN PRACTICE?

#2



Hyper-personalised marketing --- Hyper personalised education and learning

Outline

- Let's start with AI in Education and Surveying
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SO WILL AI MAKE STUDENTS LESS SMART?



AI is one of many tools.

Still need education.

Still need critical thinking.

Need to be aware of AI biases and limitations – and encourage students to question their sources.

Still need diversity.

Still need teachers and mentors.

Outline

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- **Monitoring students using AI: some benefits and concerns**
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MONITORING STUDENTS – KEY CONCERNS

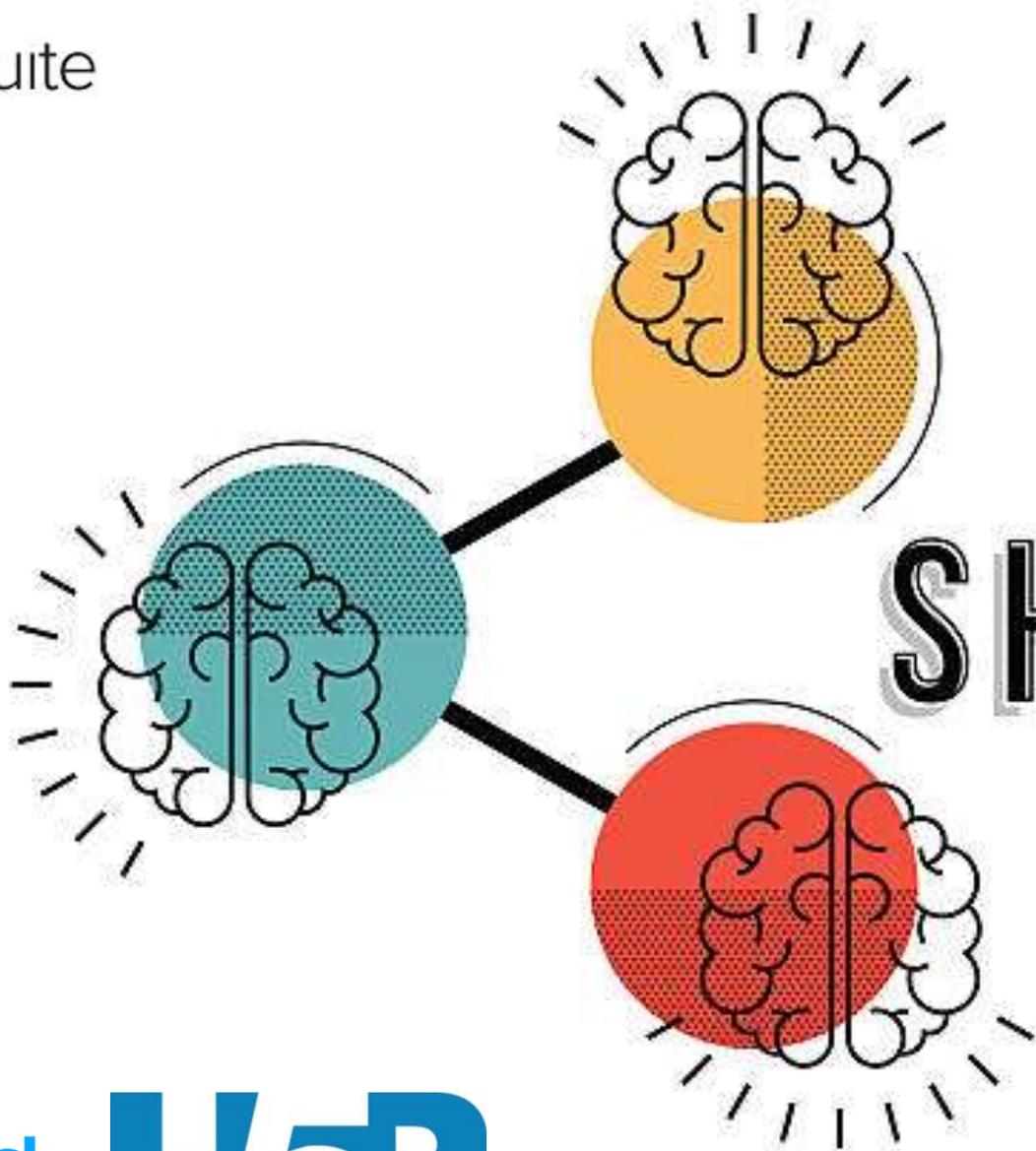


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Google Classroom



SHARE
EXPERIENCES





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References

- <https://openai.com/blog/chatgpt>

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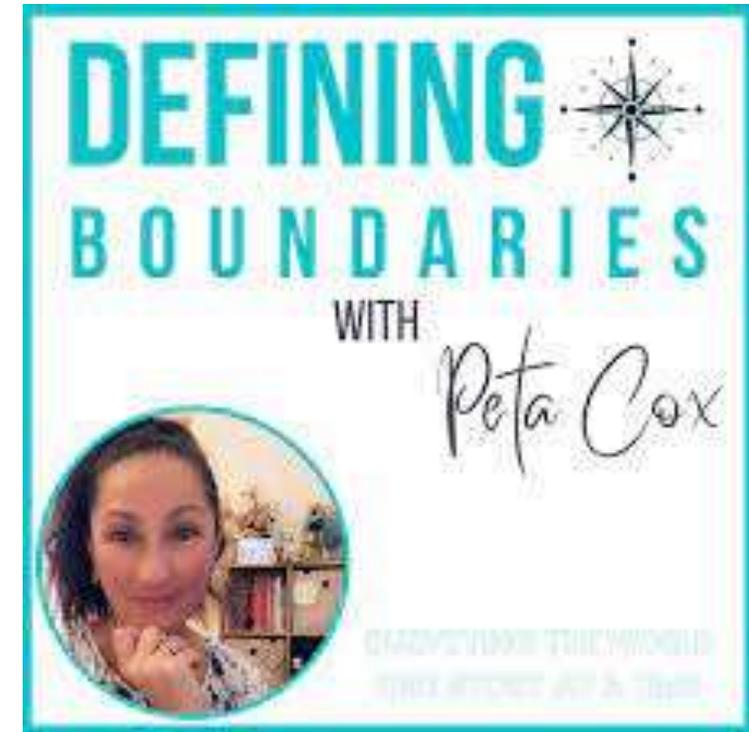
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For questions

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