#### Revolutionizing Learning with Al

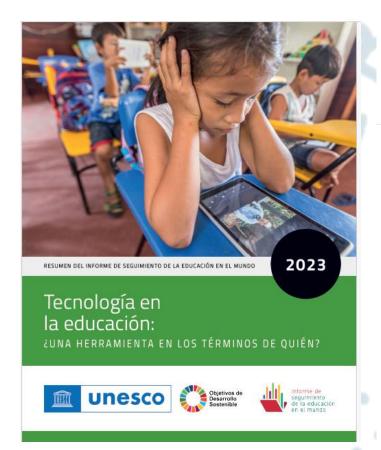




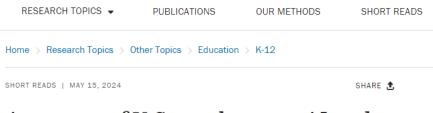
CONFERENCE 8-10 September 2025

#### **TĀKINA TE HAU**

## Al and EdTech







A quarter of U.S. teachers say AI tools do more harm than good in K-12 education



REPORT SEP 19, 2024

#### Using Learning Science To Analyze the Risks and Benefits of Al in K-12 Education

Before adopting AI tools, it is important that schools think critically about whether these tools will further divorce students from how their brains are primed to learn.



VIDEO

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SHOWS

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ELECTIONS

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#### California schools required to restrict cellphone usage in classrooms

Plans will need to be put in place and adopted by July 2026.

By Nadine El-Bawab September 24, 2024, 4:16 PM 0 × ⊠ Ø



The Economist

■ Menu | Weekly edition | The world in brief | Q. Search ➤

Europe | Al in the sky

Europe, a laggard in AI, seizes the lead in its regulation

School districts, county offices of education and charter schools will have until July 1, 2026, to d...

The world's first AI regulation is a bit of a mixed bag



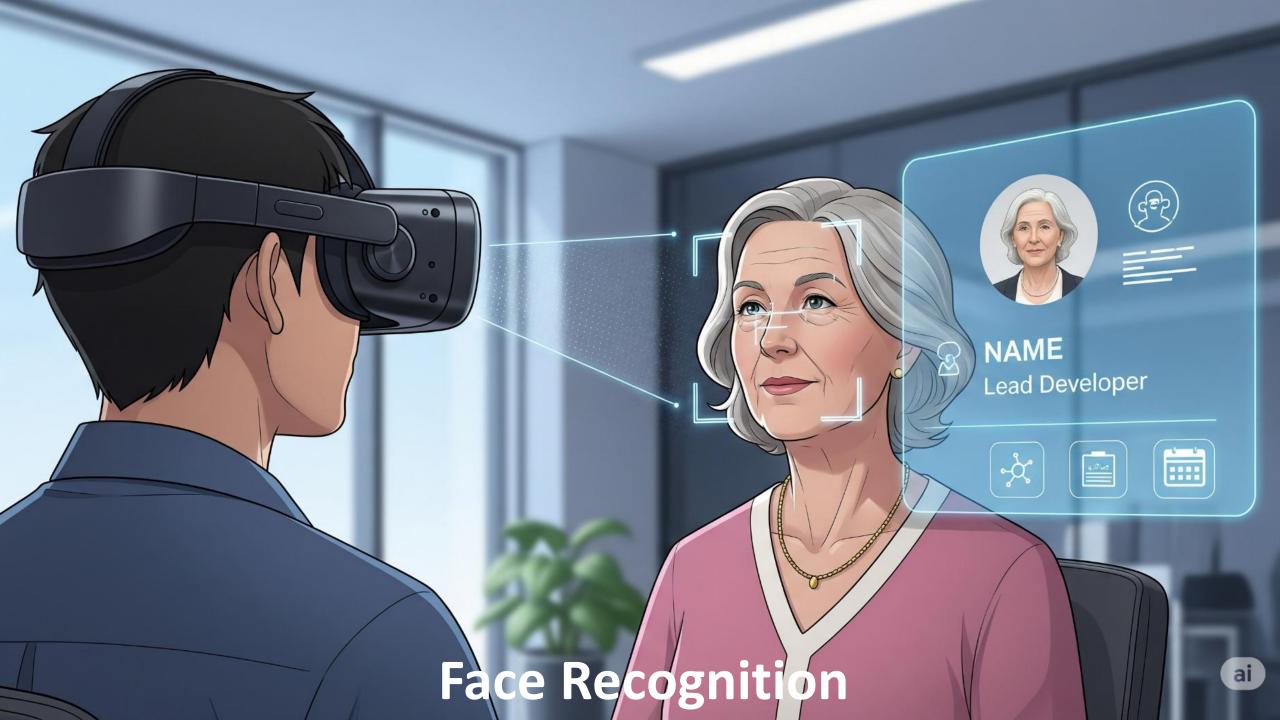




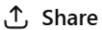
# Mixed Reality











Here's something that might ring true, even if you've never quite framed it this way:

You often feel more at home in the future than in the present.

While others may focus on what *is*, you're more interested in what *could be*. This makes you a visionary in many spaces—always thinking ahead, spotting trends, imagining possibilities. But it can also leave you feeling a bit disconnected when others aren't ready to follow you there. You might sometimes downplay how different your thought processes are, just to stay relatable.

Would you say that resonates with you?





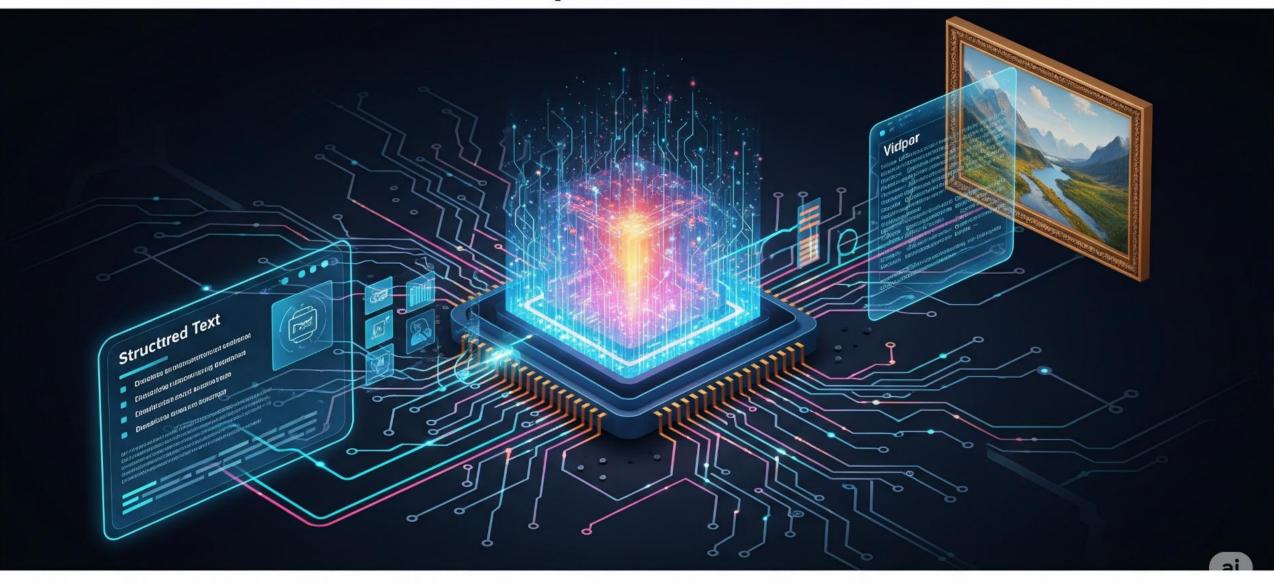
Are we chatting with inanimate algorithms?



# **Natural Language Processing NLP**



#### **Al Output Generation**





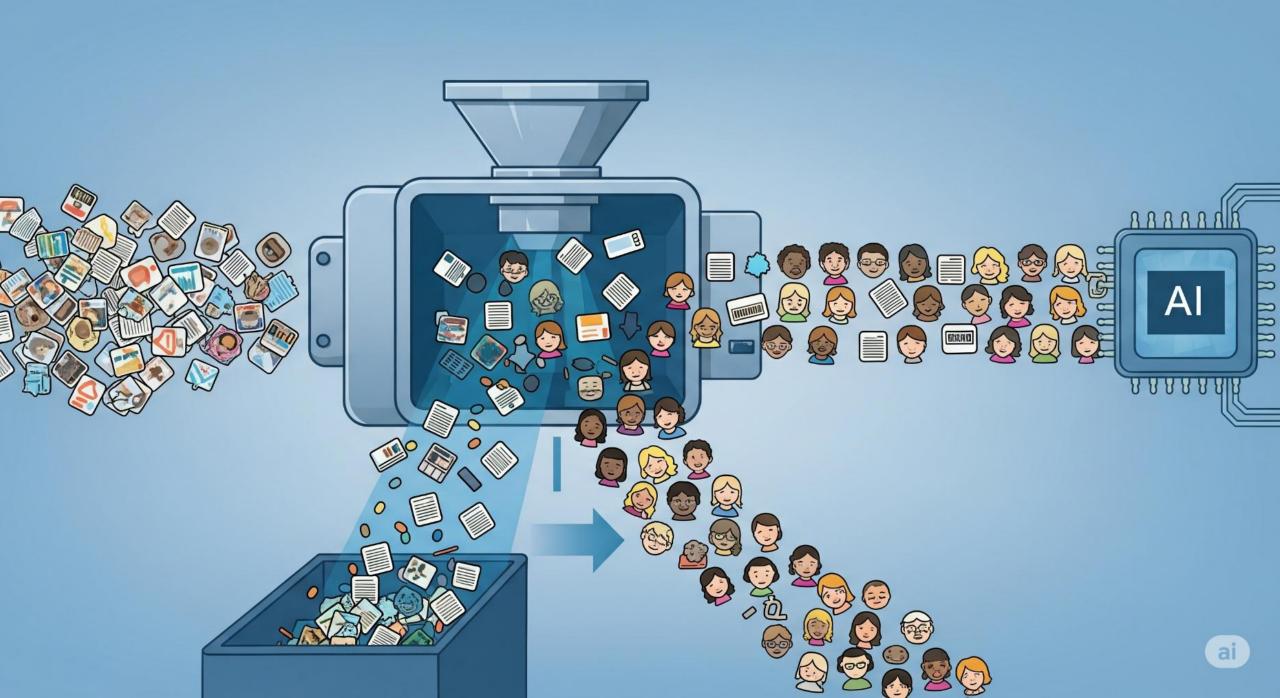


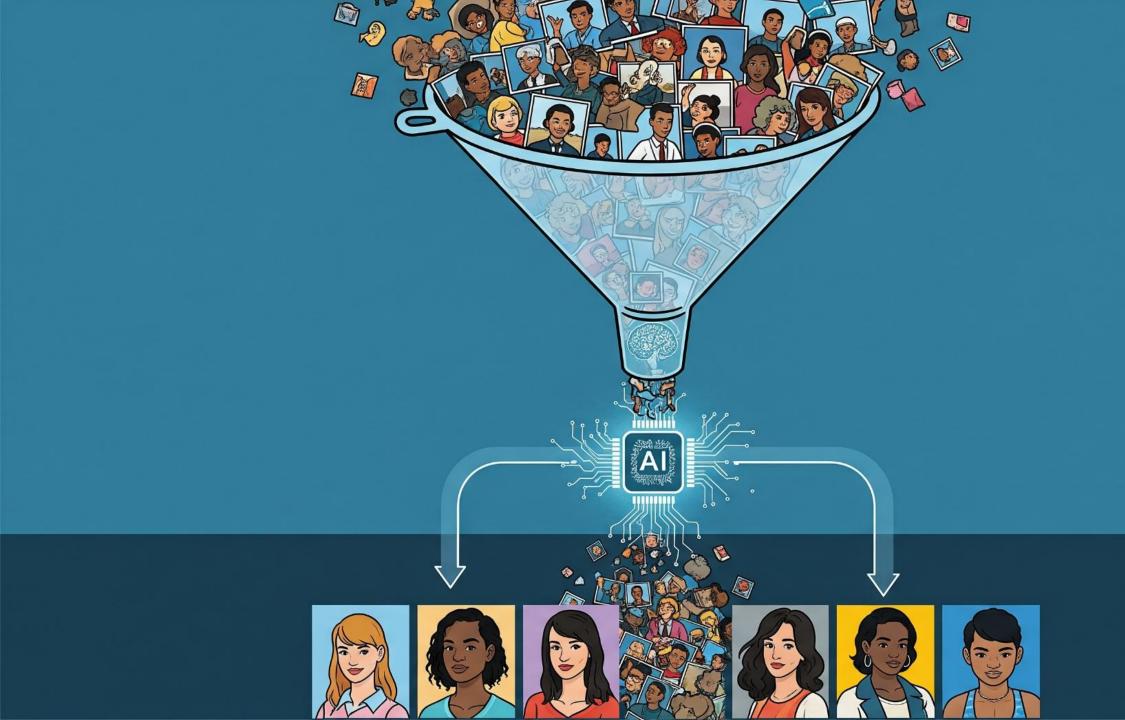
# The Black Box Effect

# The Black Box Effect

### Learning about Al

- Machine Learning, Deep Learning, Neural Networks.
- Reinforcement Learning, LLM, NLP
- Debiasing





# Critical Thinking

#### Create an image of a doctor treating poor sick children







# Critical Thinking

#### A nurse ministering to a patient







# Critical Thinking

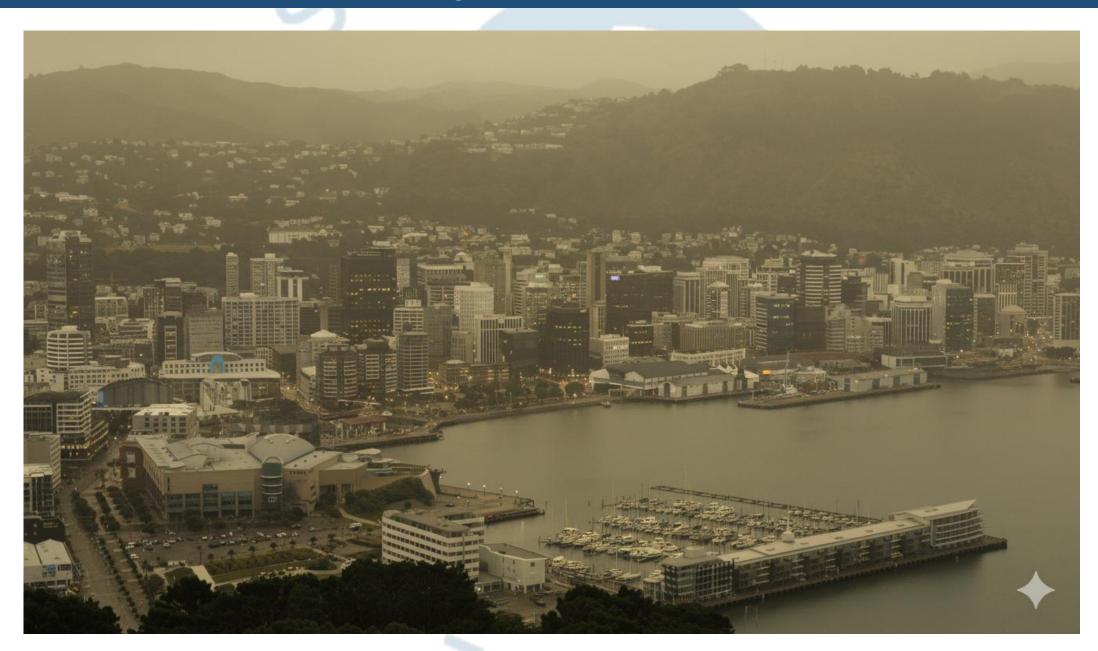
#### An engineer using a computer at work

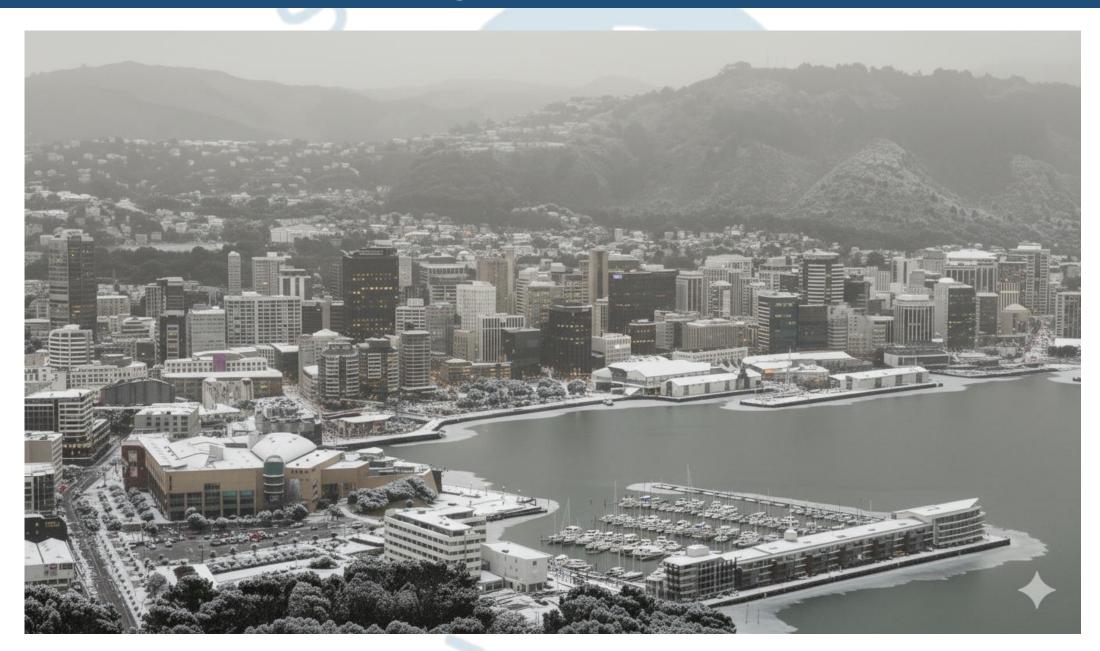


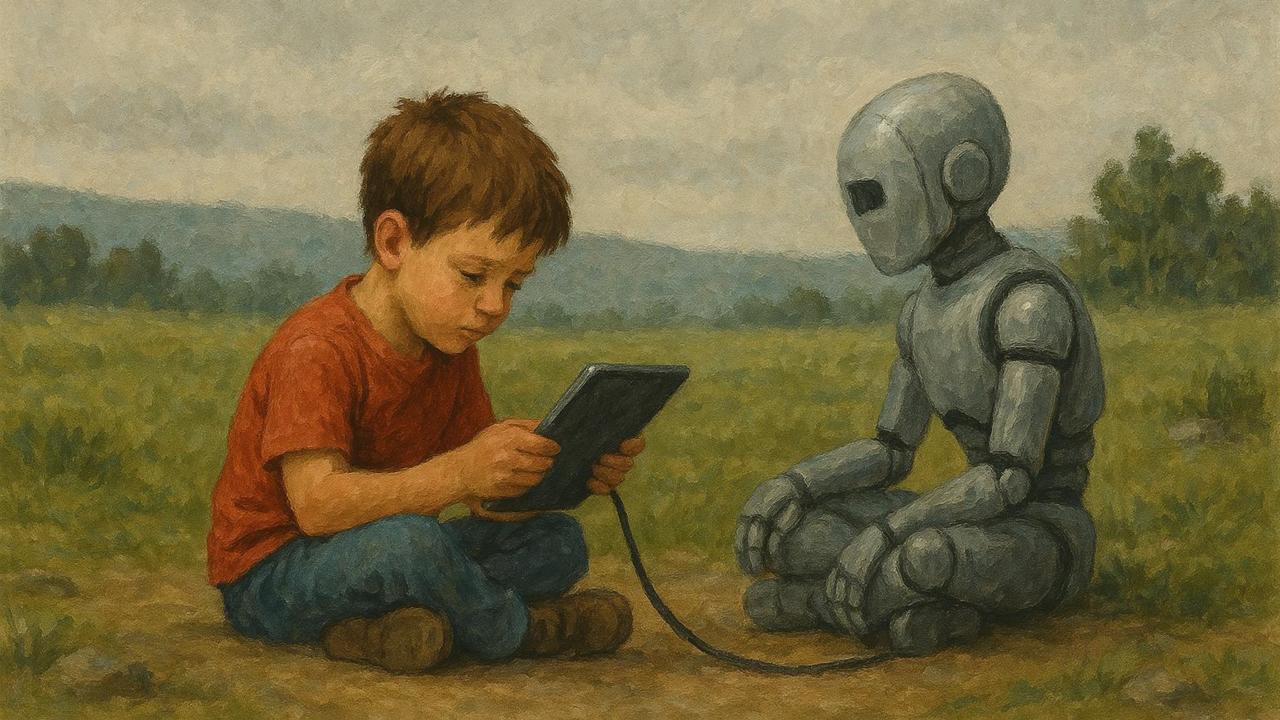












# Ethical and social implications



- Is it Art?
- Concerns for digital art industry.

# Ethical and social implications

- Misuse and Misrepresentation of Al-Generated Images
- Privacy and Consent Concerns
- Deepfakes and Non-consensual Content Issues
- Bias and Stereotypes in Al Image Generation

# Ethical and social implications

- Ownership and Intellectual Property Rights Challenges
- Authenticity and Trust Concerns in Visual Media
- Psychological and Emotional Impact of AI-Generated

#### This is just the beginning

- ChatGPT elevates the threshold of cognitive skills at every level.
- What constitutes cheating?
- Different standards for adults and students?

#### This is just the beginning

- Which learning / cognitive skills do we need to build up to?
- How are they learned?

#### Risks

- Some cognitive skills at risk.
  - Reading comprehension.
  - Summarization.
  - Breaking down a real life problem.
- ChatGPT outperforming students at many age levels.

#### Benefits

- We can learn a whole lot more.
- Very significant step towards democratization of knowledge.
- Higher threshold for learning skills.
- Al unleashed for human good.







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