Teaching AI Literacy to ELICOS and EAP Learners

Marjan Khadem
From RMIT English Worldwide

ENGLISH AUSTRALIA
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40 YEARS

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Celebrating 40 years of quality and innovation in ELICOS

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Embracing Change

- Digital fluency and the rise of technology

- Artificial Intelligence – an extension to Information and Communication Technology

Artificial Intelligence (AI)

- Definition and historical overview

- Application in communication, navigation, and information finding

- Generative models and awareness

	Digital Literacy	AI Literacy
Scope	Broad - a range of digital tools and platforms	Specialised - AI technologies only
Skills	practical skills for operating digital devices, software, and the internet	understanding of algorithms, data sets, and ethical considerations
Concerns	basic issues like data privacy and online etiquette	complex issues like algorithmic bias, societal impacts, and ethical implications
Complexity	basic operational skills and understanding	more advanced skills and a deeper level of understanding

Artificial Intelligence Literacy requires nuanced and creative human reasoning.
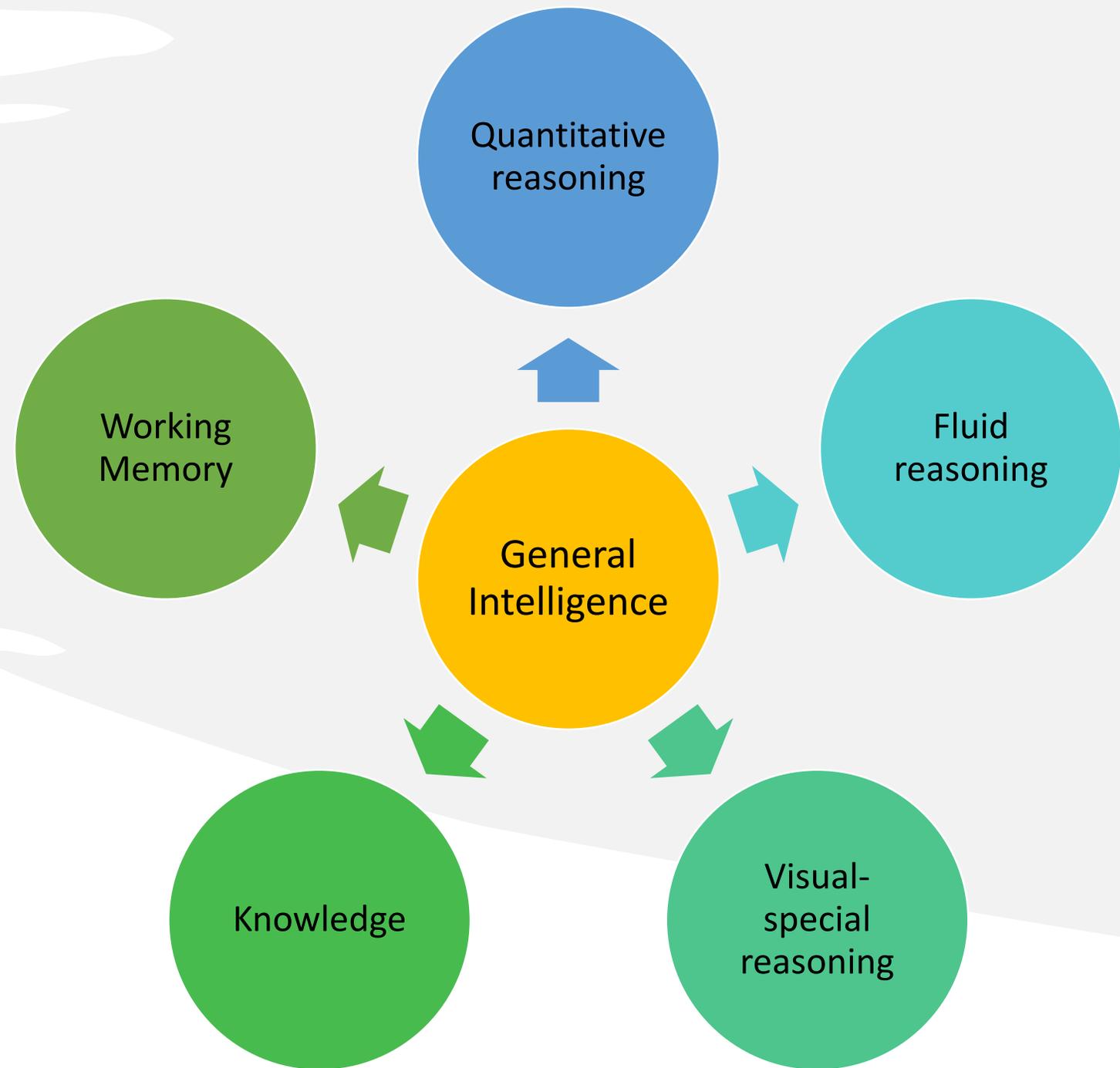
The Innovation Race

- **Silicon Valley** and **China**

- **Taiwan** and **San Jose State University** - AI chatbots – Revision Buddies

- Bonn Medical School in **Germany** - a flipped classroom approach to ensure AI readiness

- **The University of Florida** - **AI across the curriculum of all disciplines**, aiming to prepare an AI-ready workforce.

Attitudes to AI

- More than nine in 10 teens interested in learning about working with AI
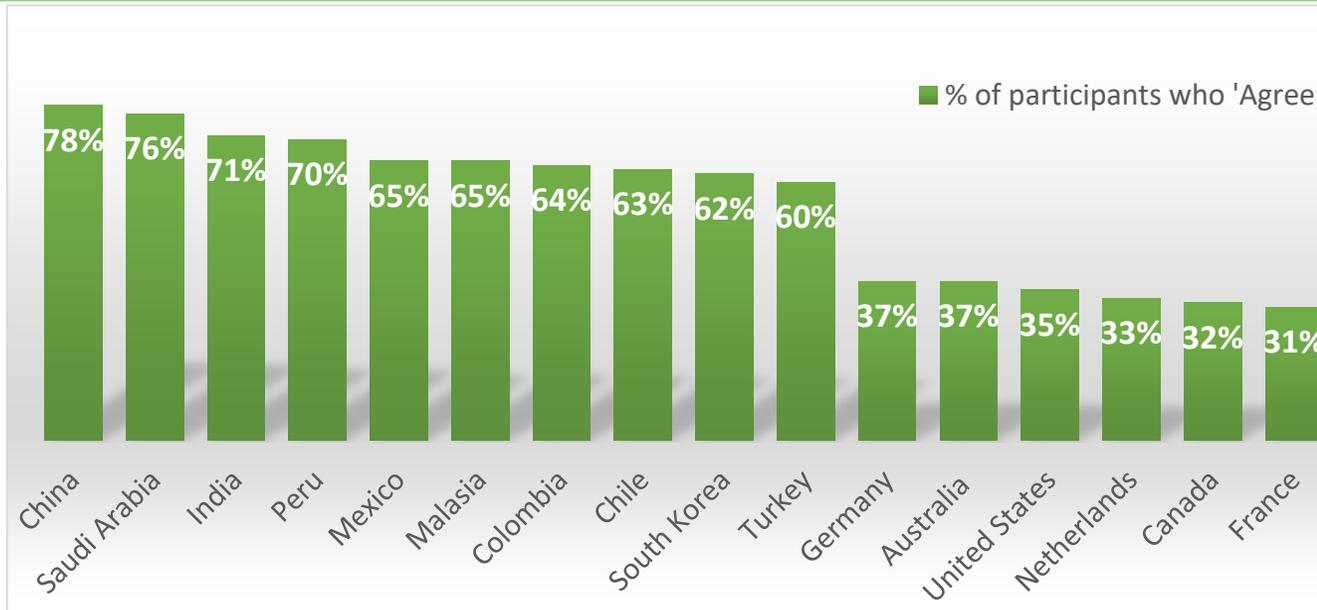
Products and services using AI have more benefits than drawbacks by country, 2022 | Char: 2023 AI Index Report

Australia's National AI in Schools Framework

Ethical and transparent integration

- Teaching and learning
- Human well-being
- Transparency
- Fairness
- Accountability
- Privacy and security

The Goal:

- To nurture responsible AI use in schools
- To prepare students for future technological challenges and opportunities

AI Literacy and Language Learning

English language learners, **who might use AI technology to generate their written work**, need to learn how to use it appropriately as they are evaluated on their language proficiency.
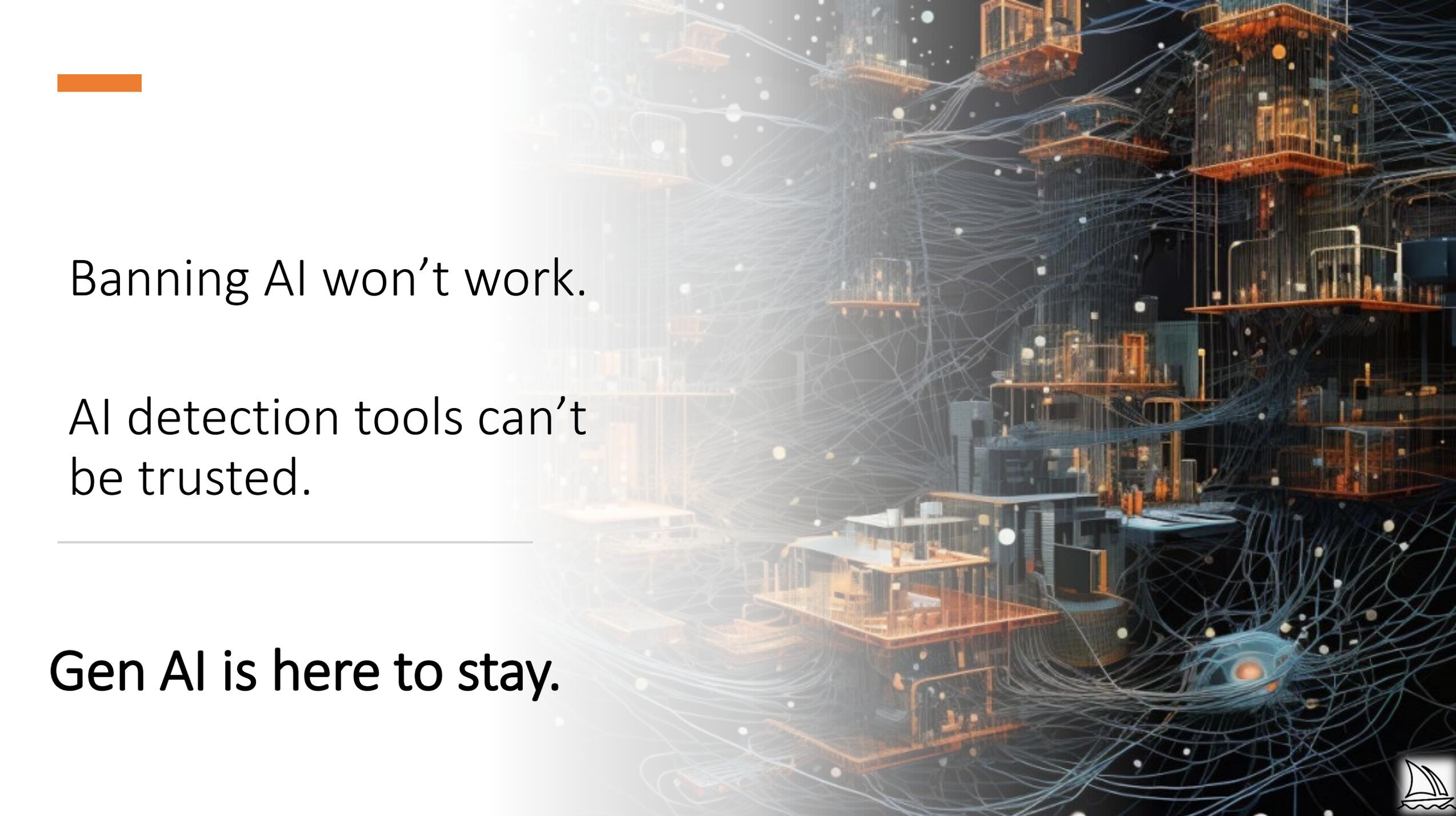
Generative AI is interrupting how ESL students used to interact with the language.

generative AI programs are powered by Large language models (LLMs)

LLMs are trained on trillions of words across many natural-language tasks
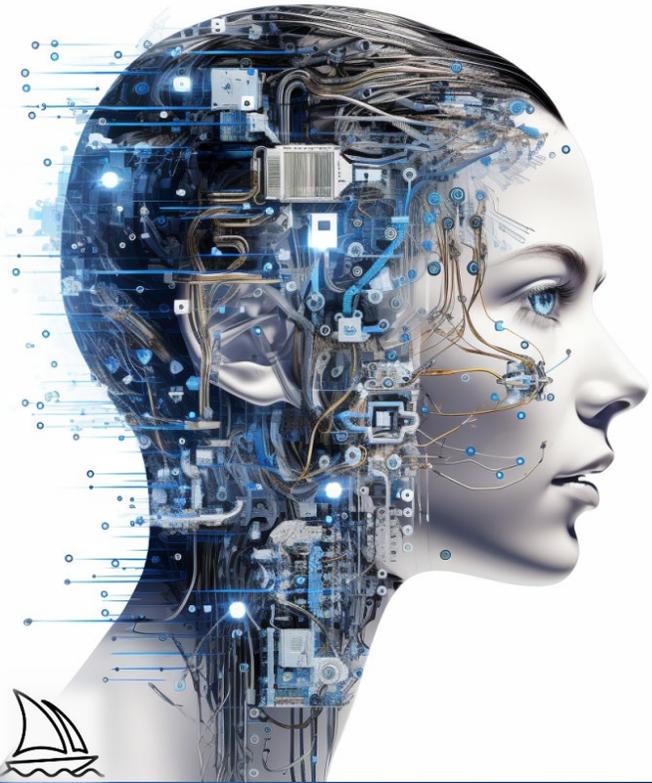
Banning AI won't work.

AI detection tools can't be trusted.

Gen AI is here to stay.

Key Areas of AI Literacy

Prompt Engineering

- How to talk to AI

Critical Thinking

- Is it really 'intelligent'?

Prompt Engineering

- Refers to constructing and refining inputs that help us get the most out of generative AI.

Prompt Engineering

Strategies

Set the scene

Specify details

Select keywords

Simplify language

Structure with bullets

Set priorities

Share feedback

Writing Genres

- Narrative Writing
- Letter Writing
- Essay Writing

- Generative AI Prompt Writing
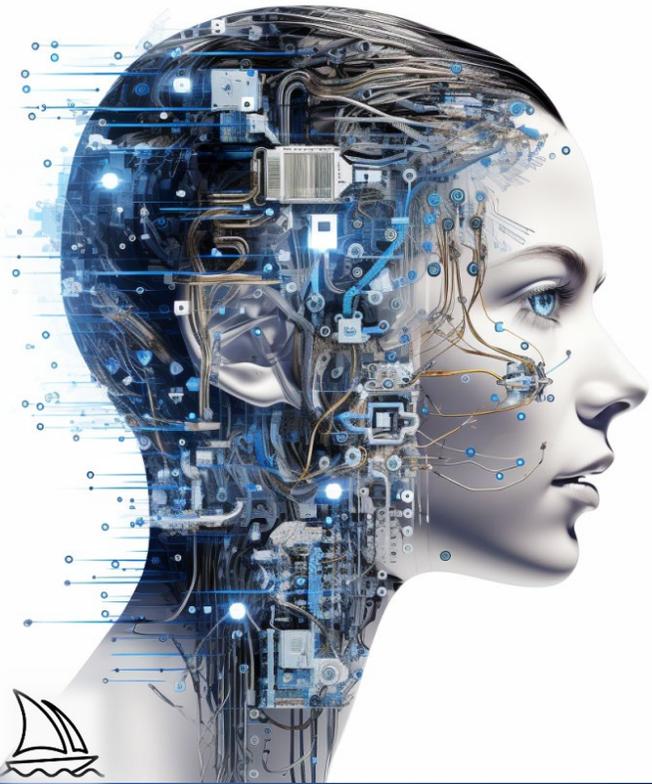
Prompt Engineering

- Precision

- Context

- Depth of Inquiry

    - "Tell me about inflation."

    - "Analyse the factors contributing to the recent trends in inflation in Australia and discuss their impact on both the economy and everyday life."

- Sequencing information

- Clarity

- Effective Communication

Prompt Crafting in Education

- American high schools have started offering instruction in "prompt engineering"

- AI in Education -

- The University of Sydney

Key Areas of AI Literacy

Prompt Engineering

- How to talk to AI

Critical Thinking

- Is it really 'intelligent'?

Critical Thinking

- AI Models
  - not search engines
  - not sentient beings
  - have no concept of 'fact'
  - advanced guess work
  - eloquent hallucination

Evaluating AI Output

CRAAP(E) test

- ❑ Currency
- ❑ Relevance
- ❑ Authority
- ❑ Accuracy
- ❑ Purpose
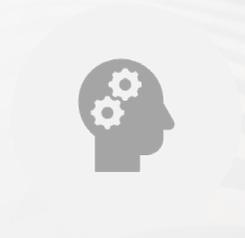- ❑ Ethics

Fact checking tools

➢ RMIT ABC fact Check

➢ Google Fact Check Tools

➢ Claimbuster

Addressing Ethical Concerns

Choose AI tools and applications carefully

Train students on identifying and mitigating bias

Monitor AI use in the classroom

Solicit feedback from students

Stay informed

- AI Ethics Educator - Professor Casey Fisher

Integration of AI literacy in ELICOS

- AI literacy in all subjects, including EAP, enriches education and keeps it current.

- Students are keen on AI discussions, sparking curiosity and critical thinking.

- AI literacy and language skills can mutually reinforce each other.

How to integrate into programs

- Ongoing mini AI literacy-related activities
- Updating textbook units on technology
- Tech Tuesdays
- In the form of electives
- MOOC

- A Partnership of Artificial and Human Intelligence

Embracing Change …

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Thank you