



Collaborating for sustainable impact: partnerships across the Asia Pacific

APAIE Perth 4 - 8 March 2024



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Session 5E: Tues 5th March, 16:15 – 17:00

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Harnessing AI to transform student access and efficiency in admissions

James Holden Duolingo, Australia/New Zealand

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Chair James Holden Duolingo, Australia/New Zealand



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Harnessing AI to transform student access and efficiency in admissions

Presenters: Julia Hoon and James Holden Chair: James Holden



Towards a sustainable future for international education in the Asia Pacific



Agenda

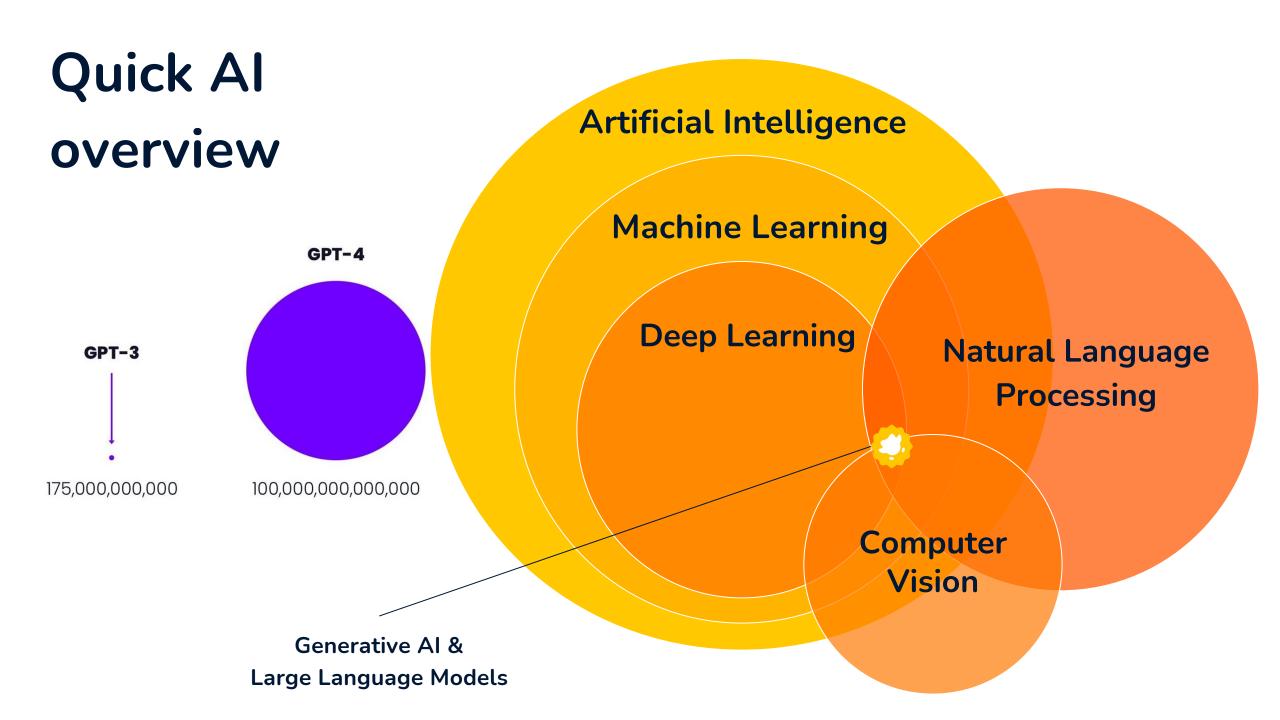
1. Intro to Al

1. Implication for Education

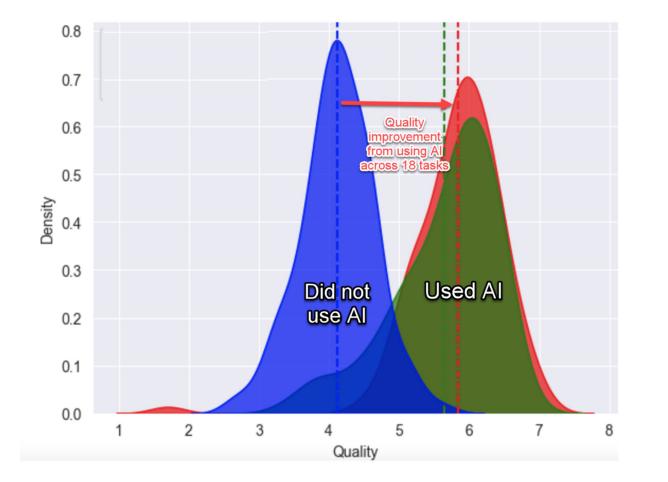
Al in the Admissions
Office



Chat GPT-4 > "University Admissions Office of the future"



Benefits of AI are increasingly accepted



- 385 BCG leading consultants were given a set of 18 key consulting tasks
- Participants with access to GPT-4:
 - Completed more tasks (>12.2%)
 - Completed tasks faster (>25%)
 - Produced higher quality work (>40%)

Harvard Business School, September

Who is most exposed?

• Before generative AI, technological advancement most threatened blue collar workers



- Generative AI raises concerns for white collar job displacement
- White collar workers must collaborate with AI
- 8 out of the 10 professions 'most exposed' to AI are in Education (Princeton University '23)



Why is Duolingo excited about AI?

• **Duolingo's** mission is to develop the best education in the world and make it universally available.

 Al offers the best opportunity to meet students 'where they are' and overcome barriers of access

• Al is solving 'Blooms 2 Sigma Problem'

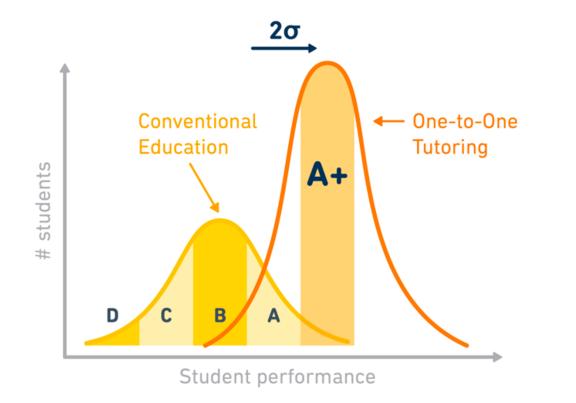


Al Professor Luis von Ahn, Duolingo's co-founder and CEO





Blooms 2 Sigma Problem (1984)



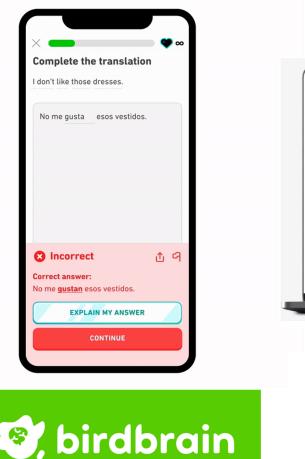
Bloom's 2-sigma problem

- Results: The average student achievement with a 1-1 tutor is better than 98% of students from a traditional class
- **Problem:** How can we deliver 1-1 tutoring against the limitations of time, resources, and the varying needs of students?

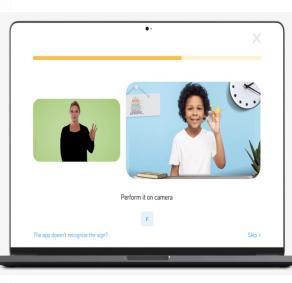
AI > Inclusive and Personalised

Learning/Assessment

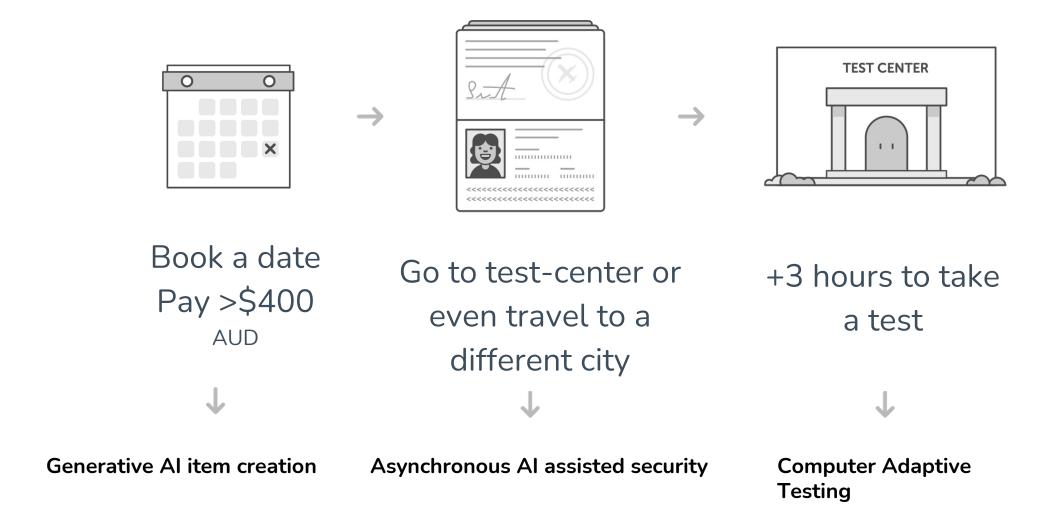
- Tailored to each student's unique needs, learning styles and education/career contexts
- Targeted interventions and personalised resources
- Immediate and intelligent feedback
- No longer constrained by the learners postcode or financial resources





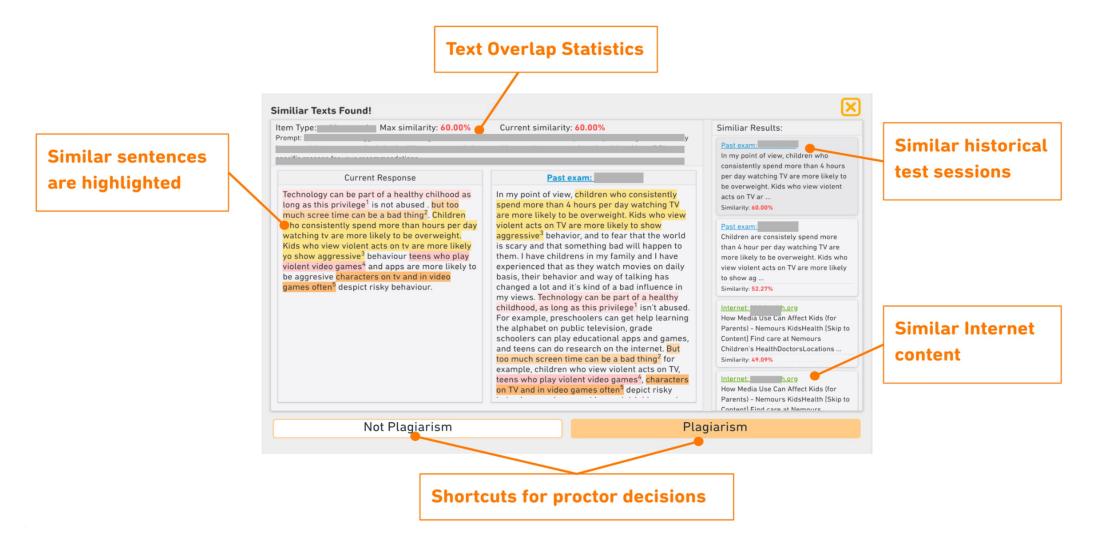


AI > Increasing Access to High-Stakes Testing



Al in action - Plagiarism detection dashboard

- 1) AI Compares every response against external resources AND historical test responses.
- 2) Human Proctors verify and confirm AI analysis



Final Thoughts

1. All is giving us unprecedented ability to educate our students against the limitations of time, resources and the varying learning needs.

1. Maximising AI is about leveraging the best of machines and the best of humans. We always want a 'human-in-the-loop'



3. Guardrails are essential and must be continuously updated as AI advances

Al in the Admissions Office



😻 Southern Cross University

Practicalities

Benefits of AI tools in the Admissions Office



Predictive Analytics

Understanding our applicants and where they come from. Predicting acceptance rate.



Customer Experience

Chatbots and virtual agents. Hyper-personalised AI generated content.

Workflow Efficiencies

Application priorities & sort. Eliminate repetitive tasks. OCR capabilities. Interview transcripts.

😻 Southern Cross University

Al is not used for admission decisions



Southern Cross University

A ethics for the Admissions Office







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