

# Cogniti

## Putting educators in the driver's seat of Al



## **Challenges**

Generative Al presents several challenges in an educational context:

- Equity: access is costly and inequitable
- Privacy: data should not used for Al training
- Control: educators can't easily steer Al behavior
- · Transparency: no visibility over Al usage
- Reliability: not grounded in course content
- Difficulty: need to know how to prompt well

#### Solution

Cogniti is a web-based generative AI platform built by educators at the University of Sydney. Educators can create their own AI 'agents' for their students. Instructors control the AI by providing plain-language instructions and uploading resources. These agents are their 'AI doubles', built by instructors to answer questions, provide feedback, give advice, explain concepts, encourage creativity, do role plays, and more.

We've always wanted to clone ourselves – and now we can, in a small way, with Cogniti – and leverage Al to be more available to help students when they need it. Our Al agents do not replace us, they augment us.

- Equity: institutionally-provisioned access to powerful Al models like GPT-4
- Privacy: hosted (SaaS or self-host) on Azure; data not used for Al training
- Control: instructor fully steers Al behavior by controlling the instructions to the Al model
- Transparency: de-identified conversation histories visible to instructors
- Reliability: course resources can be provided to improve response accuracy
- Difficulty: lower barrier to entry for Al use; LMS integration via LTI



It's easy to build a Cogniti agent and control its behavior, knowledge, Al model, security and privacy, style, and more.



A Cogniti agent, role-playing as a client, embedded via LTI in Canvas for use in a class group activity.



Cogniti helps you analyze at-a-glance what students are talking with the Al about to help inform your teaching.

## Learning impact outcomes

As an Al platform, Cogniti helps educators build their own Al agents for different purposes. A few examples:

- Personalized feedback: Al agents designed with course-specific assignment guidance and rubrics helped students improve quality of work and thinking
- Authentic scenarios: Al agents designed to act as clients or patients helped students apply knowledge and skills in a safe, feedback-rich environment
- **Essay topic development**: All agents designed to provoke critical thinking accelerated discovery and topic refinement
- Socratic tutor: All agents provided with course content and learning outcomes helped students learn through dialogue
- Universal design: Al agents designed by instructional designers helped faculty unpack barriers to learning and apply UDL principles

## Return on investment

Since a soft launch in October 2023:

- 600+ Al agents created by educators from 30 institutions from Australia, New Zealand, Singapore
- 31,500+ conversation with 10,000+ users
- Equitable access to GPT-4 model for faculty and students
- Increased student engagement in in-class activities where they interact with Cogniti agents designed by their instructor
- Thousands of syllabus and content questions answered, improving student learning & experience
- Improved personalised feedback for thousands of students
- · Increased AI literacy amongst students and faculty