



November 2025

Al agents for oral assessment

Research findings and ideas for the future





Today's agenda

1

Intro to project

(Adam)

2

Demo and mechanics

(Phoebe)

3

Pilot findings

(Adam)

4

Progress since then

(Adam)



The project



Al agent for oral assessment



Problem:

Written assessments are a barrier for many learners



Purpose:

Test whether an AI agent could conduct and grade an oral assessment



Meet the (extended!) team





Adam Barker
Director
Scarlatti



Phoebe Gill
Project manager
Scarlatti



Sam Cormack Lead developer Scarlatti



Stella Sutherland Stapleton
Associate researcher
Scarlatti



Tiffany Andrews
Academic manager
Fruition



Jenny Sinclair
Operations manager
Dairy Training



Jackie Lynch
Portfolio Manager
Food and Fibre CoVE



Lester Hoare GM quality assurance Muka Tangata



Demonstration



Contract Milking Assessment

This assessment is for Dairy Training Ltd. It will cover:

- Typical contract issues
- Guidelines for issues
- Who to go to for help



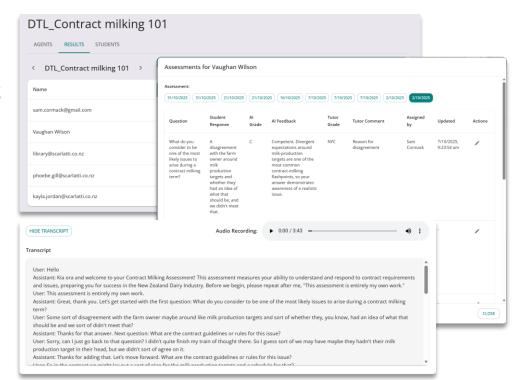


Demonstration



Tutor reviews outputs

- Answer with provisional grade
- Reasoning for grade
- Transcript and audio.

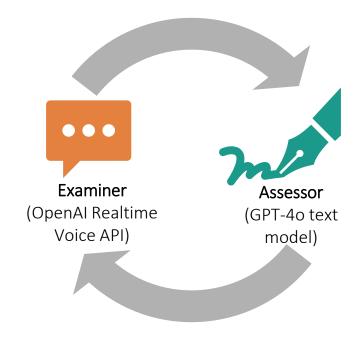






A double agent

- There are two agents used
- We do this for specialisation and answer protection
- Note: Fully text options are also possible.





How it works (current agent)



Set assessment questions

- The educator provides the questions
- This controls the conversation.

Q1: What is a common contract issue...

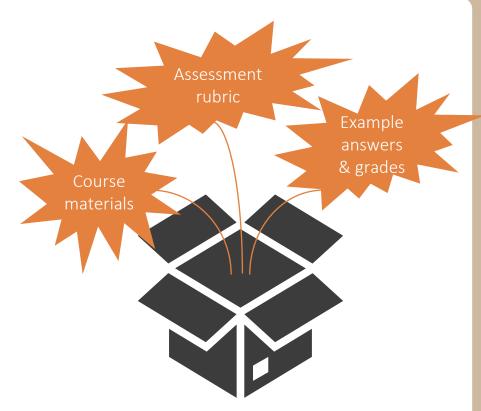


How it works (current agent)



Prompting content

- We give the agent information for it to decide how to respond/grade
- This avoids it relying only on generic information from online







Principles

- 1. Privacy
- 2. Security and resilience
- 3. Academic integrity and fairness
- 4. Content safety
- 5. Transparency and consent
- 6. Human oversight
- 7. Continuous improvement









Platform set up and hosting

We choose the strongest models and settings to build from.

- Google Cloud Platform hosting (Sydney)
- Encryption at rest and in transit
- OpenAl LLM, with own safety mechanisms
- Exclusion of personal identifiers



Agent configuration

We configure each agent and test robustly before release.

- Prompt engineering
- OpenAl Output Guardrails
- Human red-teaming



User interaction

We combine measures to verify user identity.

- LMS-linked login
- Information sheet & explicit learner consent
- Authenticity statement
- Real-time guardrail checks
- Timing controls
- Question design



Postconversation

We keep humans in the loop to ensure accountability & trust.

- Human grade oversight (by ed provider)
- Audio and transcript storage
- Automatic evaluation suite
- Deletion and retention policy



Continuous feedback

Al evaluation detects fixes needed



How to cheat (and how to stop it)

Cheats

- Access ChatGPT during chat
- Have a friend answer
- Use Google glasses or hidden earpiece
- Use Comet or similar
- Use voice clone
- ..

Mitigations

- No questions in advance
- Authenticity statement
- Audio recording & transcript
- Conversation and lag timer
- Question type (follow up, process, personal)
- Randomized questions
- Video and screen grab
- Combine with in-person
- •



Pilots



Contract Milking 101 (Level 5)

Provider:

Dairy Training Ltd

Format change:

Oral tutor to Oral Al

Aim:

Inclusive for remote and / or neurodiverse students and saves tutor time

Demographics



11 students Mixed ethnicities Aged ~22 to ~40

Al Agent



Follow-up questions during
Feedback at the end



Pilots



Hei Whanake H&S (Level 2)

Provider:

Fruition

Format change: Written to Oral Al

Aim:

Inclusive for young Māori learners, illiterate learners, and save tutor time

Demographics



14 students
Predominantly Māori
and Pasifika
Aged ~16

Al Agent



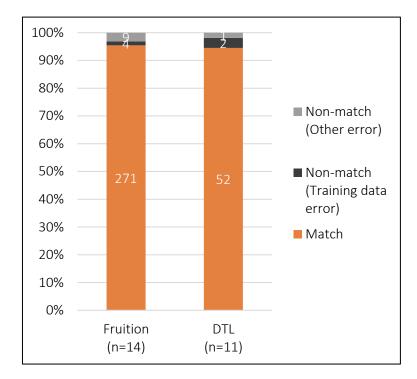
Follow-up question at the end No feedback





It appears accurate

- 95% match between AI and human
- Even tutors can disagree
- Many non-matches are addressable.



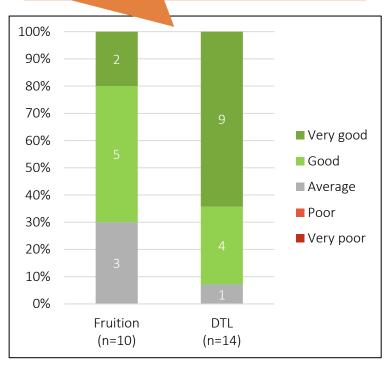




"Pretty straight forward" (Learner)
"Odd experience at first" (Learner)
"Very clear and understands you well" (Tutor)

It appears easy to use

- 20/25 said "easy" or "very easy"
- Some technical challenges
- To be fair, learning to use for first time
- Some Fruition learners prefer writing.

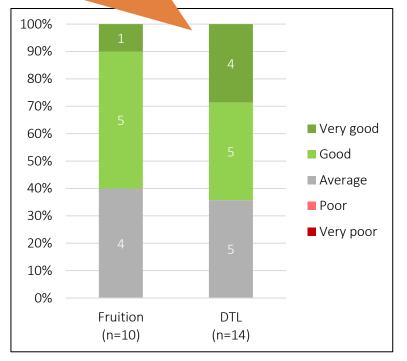




"You can do it anytime you want" (Learner) "The instant feedback was great" (Learner) "We need to talk to people... not computers" (Learner)

It appears quite enjoyable

- 15/24 said "enjoyable" or "very enjoyable"
- Particularly appreciated instant feedback, flexible timing, ability to ask questions, & easier to talk than write
- But still need human contact.









It appears to empower

- Seen most in Fruition learners
- Ability to ask questions and not be judged, assessment felt easier/faster
- Built belief in ability to do well.

"Some of the students seemed upbeat after they'd done it... They were like, oh, this was really easy... It gave them **confidence to not be afraid**" (Fruition staff)

"Most of our students have been **let down** by the education system and refuse to ask questions... But Al **isn't going to judge** them. It **empowers them**". (Fruition tutor)





It will likely save time

Dairy **Training**

4 to 6 tutor hours saved per assessment

O learner hours saved per assessment



15 to 20 tutor hours saved per assessment

28 to 33 learner hours saved per assessment

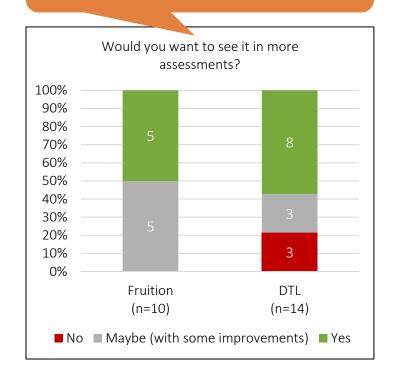




"I prefer writing, just personal preference' (Learner)

Do learners want to see more of it?

- 21/24 either interested to see more of it OR open to it with improvements
- Technical fixes and showing learners how to use it will help
- But also evidence that some learners still prefer writing.







Building Vocina

Create and deploy an AI agent to run an oral assessment, within hours.

Vocina		Impersonate organisation 🔻 Welcome. Phoeb
88	Dashboard	Provider Dashboard
*	Courses	
ф	Agents	12 ± 256 ± 8 Active Courses Conceletions
#7	Students	Active Courses Total Students Active Agents Course Completions
**)	Student Demo	Quick Actions
40	History	Create New Course Create New Agent Invite Student
\$	Settings	
		Recent Courses Recent Activity
		Introduction to Al Last updated: 2 days ago Sudent john D. completed "Introduction to Al" course
		Advanced Machine Learning Learning' Learning' Learning'
		S new messages in the "Programming Coach" Natural Language Processing agent
		Last updated: 1 week ago Course "Natural Language Processing" was updated
		Agent "Math Tutor" received positive feedback
		Recent Agents
		Math Tutor Conversations: 149
		Conversations: 149





Exploring ideas

We have ~8 other pilots starting, and are looking for more.





















Exploring ideas

Within those pilots, there have been two new use-cases

Formative



Essay verifier







Exploring ideas

We are looking for other organisations to pilot with.

Summative



Formative



Essay verifier



Employer verifier



Pre-screening



RPL





Questions & answers





Come talk to us!



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