From Gaps to Gains

Practical Applications for Teaching and Learning

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2025-01-01

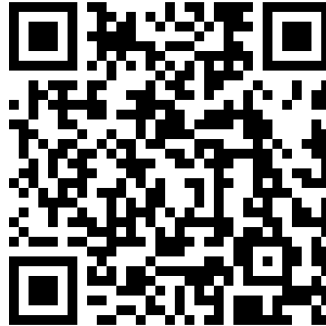**Companion Website**

Figure 1: https://michaelborck.education/ai

Today's Journey

- **From Gaps to Gains** — setting the scene

- **Talk Buddy** — student practice with feedback

- **Insight Lens** — turning surveys into action

- **Quick Win** — FAQ $\rightarrow$ interactive quiz

- **Discussion & Concerns** — practical realities

- **Closing Reflection** — where do we go from here?
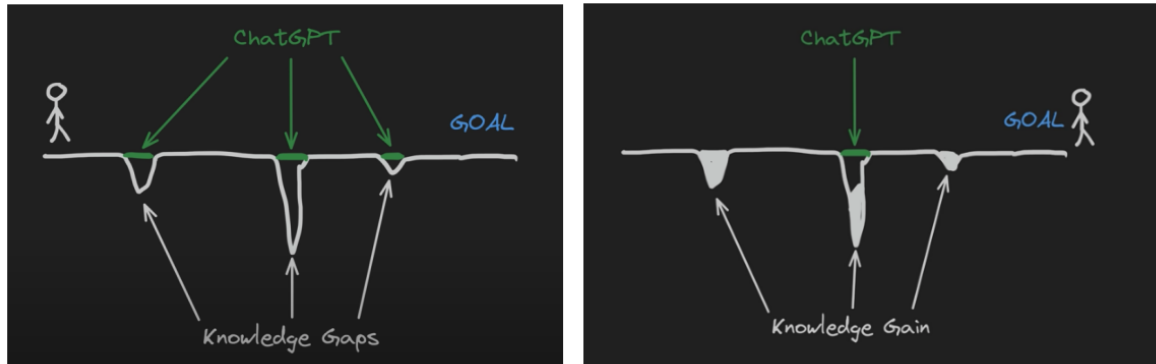
From Gaps to Gains

Figure 2: Gaps-to-Gains: Start -> End

Start → End
- Students begin with gaps in knowledge
- Our goal: help them transform gaps into genuine gains

"So the question is: which story do we want to write in our classrooms?"
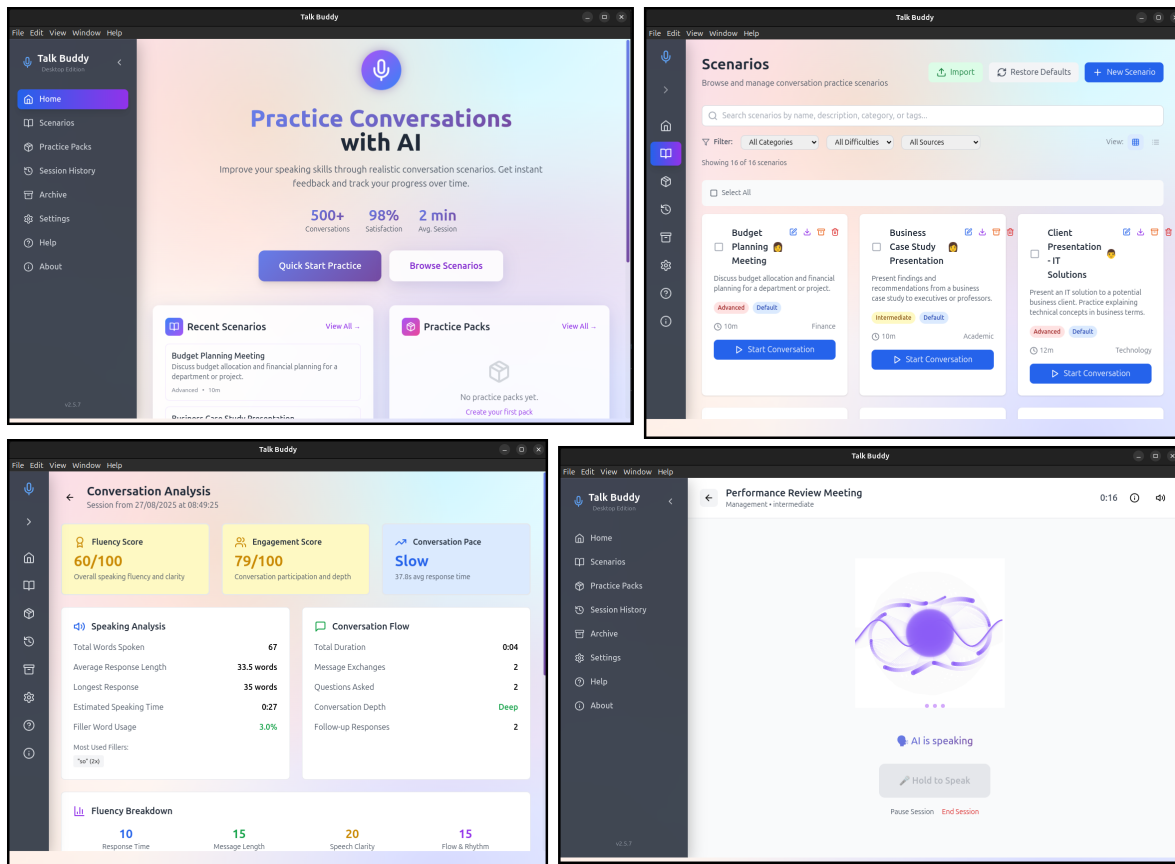
Talk Buddy — Conversation Practice

Figure 3: Talk Buddy

> 💡 **Real Impact**
>
> *"I practiced breaking bad news 10 times before placement. I felt prepared instead of terrified."*

Students:
- Practice professional conversations
- Role-play difficult scenarios
- Get instant feedback
- Build confidence safely

Lecturers:
- Create custom scenarios

- Track common struggles
- Provide targeted support
- **Value:** Fail safely, learn, try again — no real-world consequences.

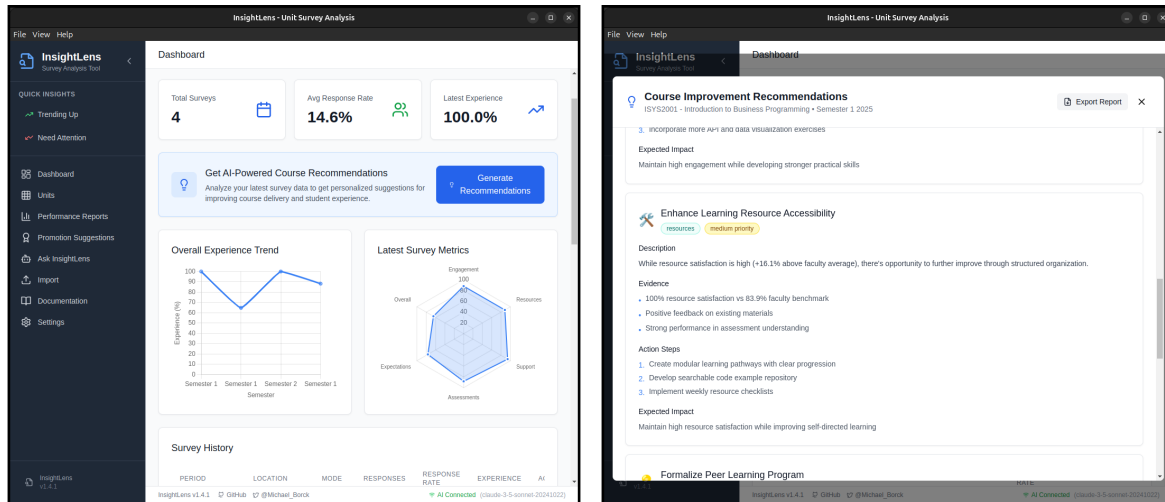## Insight Lens — Your Feedback, Actionable

Figure 4: Insight Lens

You upload:
- Student evaluations
- Unit surveys
- Mid-semester reviews

Insight Lens finds:
- Common themes
- Hidden patterns
- Specific improvements

Value: Your expertise + data insights = better outcomes.

Quick Win: Static → Interactive

In 2 minutes:
1. Take an FAQ or worksheet
2. Ask AI to make a interactive web page 3. Upload to Blackboard
4. Students interact, save locally

"No programming required — copy template, swap questions, done."

> ⚠️ Privacy First
>
> Runs in the browser. No logins. No data leaves the device.

Common Concerns — Quick Answers

- **Plagiarism?** → Use AI as *editor* + require transparency

- **Lazy students?** → Design critique & reflection tasks

- **Replace teachers?** → No — AI handles routine, we do relationships

- **Data privacy?** → Use safe tools, no sensitive data in consumer AI

Reassure without lecturing. Keep it short, confident, balanced.

Beyond Today: Other Tools in the Toolkit

- **CloudCore** – Scenario-based teaching platform

- **FeedForward** – Structured learning from feedback

- **Curriculum Curator** – AI-assisted course design

- **Study Buddy** – Offline AI tutor

- **TechNova-Sim** – Cybersecurity simulation

- **Critique Quest** – AI-powered case studies

Explore more: michaelborck.education

Beyond Teaching: AI in Research

AI can also support research practice:

- **Audio transcription & thematic analysis** (Otter-style tools)

- **Literature review assistance** (search, summarise, compare)

- **Data handling & visualisation** (survey analysis, charting)

- **Drafting & editing support** (grants, papers, reviews)

Should the AI Facilitator role extend to **research support**?
Add your view in the poll.

Shaping Our Support

Figure 5: Poll open for the next few days — your input will shape how this role develops.

- Guidance on **safe use & policy**

- **Practical demos** & workshops

- Help with **curriculum integration**

- **Tools & resource** curation

- **One-to-one support** for teaching/assessment

- Research support (e.g. transcription, analysis, writing)

- Other (open text)

Closing Reflection

AI isn't about replacing educators —
it's about amplifying teaching and learning.

So the real question is:
How do *we* take our students from gaps... to gains?

Discussion & Next Steps

What feels most relevant for your teaching?

- Try the **FAQ → quiz** activity

- Experiment with **Talk Buddy** or **Insight Lens**

- Explore more at michaelborck.education