Between Copy-Paste and Understanding

Learning Ethics in the Age of Generative AI

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◆ 강의 마스터 노트

What do you do with an AI answer before you submit?

A Paste it as is

B Fix only the awkward sentences

C Check that the sources exist

D **Close the chat, rewrite in my own words**

Answer A–D in the chat

TODAY'S GOAL **D** **Close the chat, rewrite in my own words**

This isn't a quiz. Today's two hours are the path from A to D.

◆ 강의 마스터 노트

Three things that really happen at university

Made-up citations. The papers in the reference list don't exist

A report written for you. You handed it in but can't explain it

Data you shouldn't upload. Others' writing or personal info, pasted as is

How many AI references are made up?

55 %

Citations by GPT-3.5 that were made up

18 %

Citations by GPT-4 that were made up

636

Number of citations checked (42 topics)

2023 models. Lower now, but not zero

§ Walters & Wilder 2023

AI makes plausible next words

HALLUCINATION

Not a malfunction but the AI's best effort: it fills unknown gaps with the most plausible words

FACTS

Even fluent sentences must be checked against the source

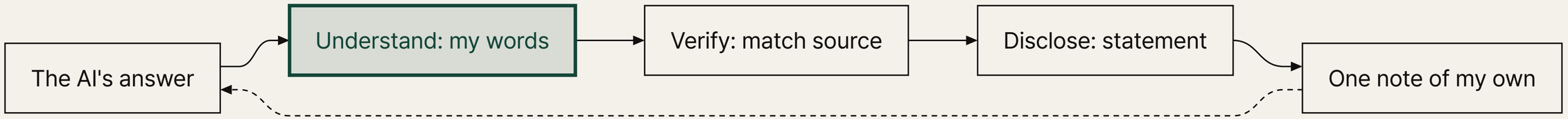
RESPONSIBILITY

Whoever submits unverified writing is responsible for it

Not if you used AI, but what you did

Not asked today	Asked today
Did you use AI?	Did you understand? In your words?
What percent is AI?	Did you verify? Checked sources?
Does the AI detector flag it?	Did you disclose? Which AI, where?

Today's two hours: one lap of this loop



Verifying, disclosing, and notes only matter once you understand

◆ 강의 마스터 노트

Today's map

01

(1) Testing understanding

Four levels, Hands-on 1: three lines, chat closed

02

(2) Verification and authorship

Citation demo, what not to paste, disclosure statement

03

(3) Connecting to my knowledge

The four-box note, assessment for faculty

04

Wrap-up

One habit to change today, Q&A

◆ 강의 마스터 노트

How to join in today

☑ DO	Open your usual AI chat in a new window
☑ DO	Have a notes app or a sheet of paper ready
☑ DO	Think of one concept from a class this semester
⊟ STOP	~~No pasting personal info or others' writing today~~
⬚ ASK	Post questions in the chat anytime

◆ 강의 마스터 노트

Can you rewrite it in your own words?

Understanding shows when you rewrite, not when you read

◆ 강의 마스터 노트

Four levels of handling AI answers

1	**Copy-paste**	Paste the AI answer as is. Not yours yet
2	**Accepting the summary**	Read the AI summary and believe you understand
3	**Restating**	Close the note and rewrite it in your own words
4	**Connecting**	Link to your other notes and record the source

Signs of where you stand

Stage	Sign	Ask yourself
Copy-paste	Unsure whose words	Who wrote this?
Accepting the summary	It all makes sense	Explain it alone?
Restating	Stuck mid-writing	Where am I stuck?
Connecting	You recall a class	Connects to what?

Rereading vs. recalling: which sticks after a week?

A Rereading several times

B **Closing it and recalling (self-test)**

C No difference

Answer A–C in the chat

ANSWER **B** **Closing it and recalling (self-test)**

Rereading won after 5 minutes, but recalling lasted longer after 2 days and 1 week.

§ Roediger & Karpicke 2006

Me reading the summary vs. me rewriting it

Accepting the summary

You feel you know it all

Words don't come at exam time

You trust even a wrong summary

→

Restating

You see where you're stuck

You can recall your own words

Mistakes turn into questions

You learn where you get stuck

§ Roediger & Karpicke 2006 · ◆ 강의 마스터 노트

Hands-on 1
Three lines, chat closed

☑ DO	Ask the AI to explain one concept from class
☑ DO	Read the answer once, then close the chat
☑ DO	Write three lines in your own words
☑ DO	Put a question mark where you got stuck
⊟ STOP	~~Reopening the chat while you write~~
⬚ ASK	Done? Share one of your three lines in the chat

7 minutes. Feel free to turn your camera off

§ Roediger & Karpicke 2006 · ◆ 강의 마스터 노트

Where you're stuck is what to study

If all three lines came easily, it's already yours

If you got stuck on a line, that's what to study today

When you ask AI again, narrow it down to just that spot

Three lines draw out your thinking

FORMAT

Once the boxes are set, you can't leave them empty

THREE LINES

You can't copy at length, so you choose

HABIT

The same boxes each time build a verifying habit

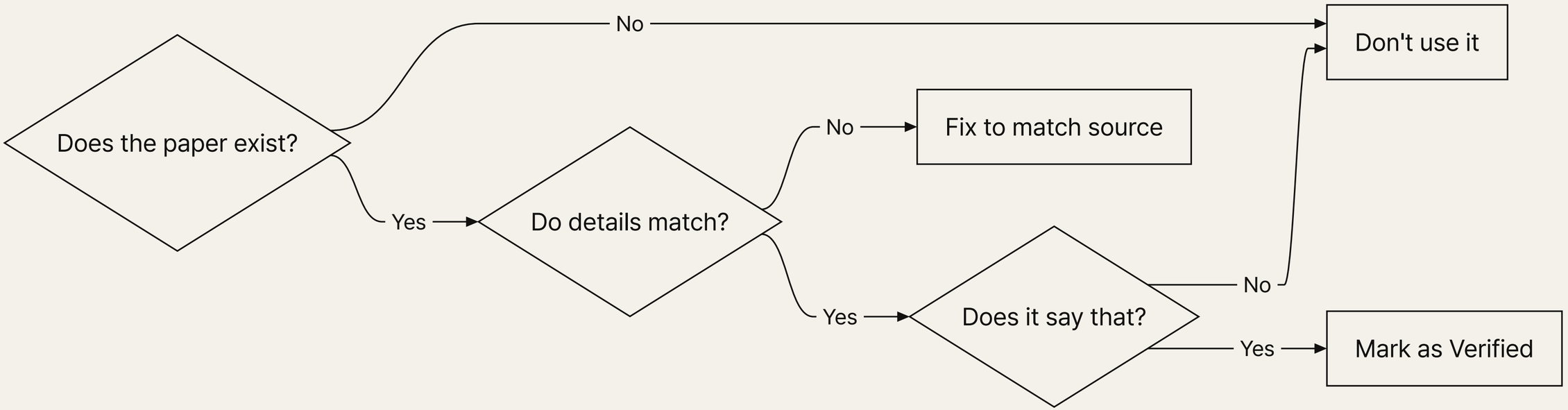
◆ 포맷은 사고를 강제한다

AI without context can't take responsibility

People do the verifying, screening, and disclosing

◆ 강의 마스터 노트

Steps to verify a single citation



Ask three times: Exists? Details right? Really says that?

Live demo
Checking five citations against the source

I ask AI for references, then check each DOI, title, and content

Crossref 서지 대조 · § Roediger & Karpicke 2006

Nov 8: this demo's results

Citation by AI	Exists?	DOI	Title	Content
Roediger 2006	Yes	Correct	**Made-up subtitle**	Correct
McDaniel 2007	Yes	Correct	**Correct**	Mostly correct
Karpicke 2008	Yes	Correct	**Correct**	Mostly correct
Butler 2010	Yes	Correct	**Correct**	Matches title
Karpicke 2011	Yes	Correct	**Correct**	Matches title

GPT-6 Sol, no search, pre-run 2026-11-08. Varies daily

§ Roediger & Karpicke 2006 · Crossref 서지 대조

A working DOI isn't enough

TITLE

One of the five had a made-up subtitle

DETAILS

Match author, year, volume, issue, pages to the original

CONTENT

Read the abstract first: does the paper really say that?

§ Roediger & Karpicke 2006 · Crossref 서지 대조

Keep the process, not detectors

Relying on AI detectors

- Flags non-native writing as AI
- Maker pulled it for low accuracy
- Judges only the final text

Keeping the process

- Your AI chat log is kept
- Edits and Verified marks remain
- You can explain it yourself

§ Liang et al. 2023 · OpenAI 분류기 공지(보관본)

Who do AI detectors wrongly flag?

61%

Non-native TOEFL essays flagged as AI (avg., 7 detectors)

97%

TOEFL essays flagged as AI by at least one detector

Human-written essays only. 2023 detectors

§ Liang et al. 2023

Check before you paste

STOP	~~Personal info: ID numbers, phone, student ID~~
STOP	~~Original text written by teammates or others~~
STOP	~~Survey or experiment participant data~~
ASK	Course materials: check the class AI policy first
ASK	Check settings: are chats used for training?
DO	Your own notes and questions: go ahead

◆ 강의 마스터 노트

Which of these can you paste into an AI chat?

A A full draft written by a teammate

B **A draft report you wrote**

C An Excel file listing survey respondents

Answer A–C in the chat

ANSWER **B** **A draft report you wrote**

Your own writing is your call. Others' writing and personal data belong to them.

◆ 강의 마스터 노트

AI is not listed as an author

Not an author. It can't be responsible for accuracy, integrity, and originality

Disclose your use. Note where and how you used it

People are responsible. Review the AI's sentences and citations yourself

Don't cite AI as a source. Cite the original, not the AI's answer

ICMJE: AI use by authors

An AI disclosure statement to end your assignment

01

What I used it for

I used an AI chat (name, date) to explain concepts and suggest references

02

How I verified it

References checked against the originals; I rewrote the sentences myself

03

Where I didn't use it

I wrote the analysis and conclusion without AI

ICMJE: AI use by authors · ◆ 강의 마스터 노트

AI use: course policy comes first

WHAT'S ALLOWED

Read the syllabus and your professor's guidance first

IF UNCLEAR

Ask before using it, and keep a record of the answer

UNIVERSITY

Also check your university's and department's AI guidelines

◆ 강의 마스터 노트

Verify, screen, and disclose

Verify.	Does it exist, are the details right, does it say that
Screen.	Put in only your own material, never other people's
Disclose.	State which AI you used and where, in three lines

From the AI's answer to my own knowledge

Keep only what you verified, and use what you keep again

◆ 강의 마스터 노트

The four boxes of one note

01

One-line question

What I didn't know

02

Three lines of mine

Rewritten with the chat closed

03

AI used and sources

Which AI, when, and which original source

04

Verification status

Verified or Unverified

How to keep AI chats as notes

Copy-pasted note		Recorded note
Pastes the whole AI answer		Question, then 3 lines of mine
No note of which AI or when		Which AI, and the original source
Nobody knows if it was verified	→	Status: Verified or Unverified

One check box catches wrong answers

Live demo
Turning the results into one note

I move the citations verified in Part 2 into a four-box note

§ Roediger & Karpicke 2006 · ◆ 강의 마스터 노트

The finished note

One-line question: what I didn't know

Three lines of mine: rewritten with the chat closed

AI and sources: which AI, when, which original source

Status: only Verified items go into assignments

인출 연습과 대학생 학습

1. 질문 한 줄

- 다시 읽기보다 꺼내 보기(시험)가 오래 기억에 남는다는 근거가 있나?

2. 내 말 세 줄

- 배운 직후에는 다시 읽는 쪽이 더 많이 기억하는 것처럼 보인다.
- 그러나 이틀이나 일주일 뒤에는 미리 꺼내 본 쪽이 더 많이 남았다.
- 그래서 시험 전날 다시 읽기보다, 덮고 떠올려 보는 연습을 먼저 한다.

3. 사용한 AI와 출처

- AI: GPT-6 Sol, 2026-11-08, 참고문헌 5편 요청 (검색 없이)
- 원문: Roediger & Karpicke (2006), Psychological Science 17(3), 249-255
- 원문: Karpicke & Blunt (2011), Science 331(6018), 772-775

4. 확인 여부

- [x] Roediger & Karpicke 2006: 논문 있음, DOI 맞음, 초록과 내 말 일치
- [x] 제목 정정: AI가 부제를 지어냄. 실제 부제는 Taking memory tests improves long-term retention
- [ ] Karpicke & Blunt 2011: 서지만 확인, 초록은 아직
- [ ] 나머지 3편: 내용 미확인이라 과제에 쓰지 않는다

Note file body: the Part 2 pre-run results in four boxes (2026-11-08)

§ Roediger & Karpicke 2006

Ask it to mark what's unverified

Summarize this

You get one plausible paragraph

You can't tell what came from the source

Filled-in gaps read like facts

→

Ask in parts

Conclusion in one sentence

Evidence: which part of the source

Unverified: not in the source

Three questions to ask next

The unverified box is your to-check list

For faculty: assess the process

Grading only the result	Also grading the process
You end up guessing if AI was used	Collect AI chat logs and notes too
You lean on AI detector scores	Hold a 5-minute oral check
Polish can pass for understanding	Check boxes show verifying habits

Assignment design examples

☑ DO	Ask for an AI chat log or note with submissions
☑ DO	Require a Verified mark on every reference
☑ DO	Use a 5-minute oral check or in-class restating
⊟ STOP	~~Judge by AI detector scores alone~~
⬚ ASK	State what's allowed in the syllabus first

Only what you keep becomes your knowledge

Question.	Record what you didn't know so you can find it again
Your words.	The three lines you rewrote come back at exam time
Verified.	Only items marked Verified go into the next assignment

One thing to change starting today

☑ DO	Close the chat and rewrite AI answers in 3 lines
☑ DO	Check each reference: exists? correct? says that?
☑ DO	Add a 3-line AI disclosure statement to assignments
⬚ ASK	Pick one of the three and post it in the chat

◆ 강의 마스터 노트

Questions welcome

In the chat or on the mic. After the lecture, use the contact on the last slide

Take these with you

Slides and templates

3-line disclosure statement, citation checklist, four-box note

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Not whether you used AI, but: Did you understand? Did you verify? Did you disclose?

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