ai is more than a chatbot.

How I use AI to coach me, run my courses, and do my research

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AI Community of Practice | Hosted by the Bradshaw Library and the Dendritic Institute | October 14, 2026

My verbal delivery score

3 / 5

28 lectures in a row. Flat.

So I asked it to count something a transcript can show

202

times I said “like” in one lecture I improvised

Filler words per minute

2.2 → 1.3

last spring vs. a good day this fall



ChatGPT could never have told me that.

It has never seen me teach.

most of us use ai for two things

Show of hands: who uses ChatGPT, Copilot or Gemini?

Ask it questions

Write emails

That's a chatbot.

give ai something to read and something to reach

read

Lecture transcripts

My syllabus and lecture notes

A teaching rubric

Last semester's reviews

reach

Canvas

The printer

My files

My calendar

three ways i use it, then i'll show you how to start

1

coach

it reads how I teach

2

teaching assistant

it reaches into Canvas

3

researcher

it reads more than I can

+

demo

built live



1 · coach

First, AI as my coach. It read every lecture I gave and told me what I couldn’t see.

ai researched how to teach, taught me, then coached me



the research turned into four habits i use every class

- A hook on the board before class starts
- “Explain it back to me” instead of “Is this clear?”
- Calling on the quiet students
- A timer five minutes before the end, so I always close

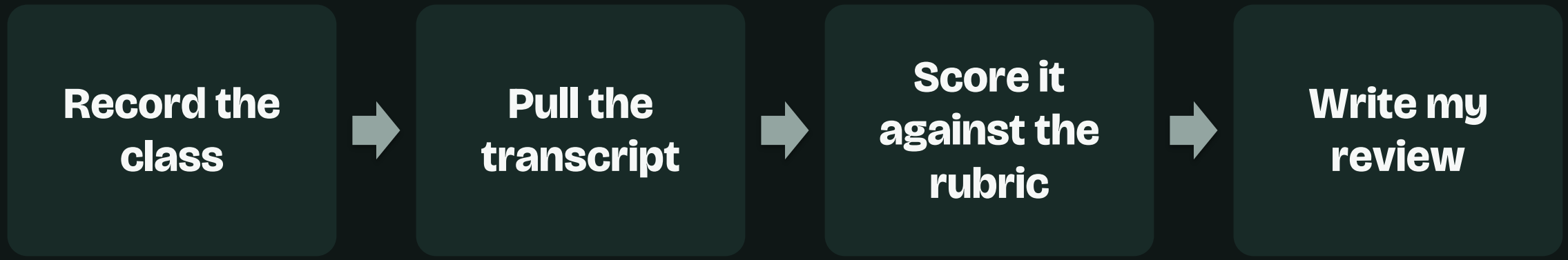
Every lecture gets a scored review (out of 5)

3.87 → 4.30

spring semester average vs. my lecture on October 6

Audio only, with my students' permission. I ask the class and tell them why.

once ai learns a job, it runs the job without me





2 · teaching assistant

So AI is a good coach. It can be a great teaching assistant too.

ai does the operational work of running a course

- Updates and posts on Canvas
- Builds course modules
- Writes reading-check quizzes
- Makes handouts and short explainer videos

2 | teaching assistant

my online course was built before the first day of class

7

modules, live before the session opened

37

students, up from 20 at the start

every class morning, my plan for the day is waiting

FIN 4533 · DERIVATIVE SECURITIES · FALL 2026 · LUTGERT COLLEGE OF BUSINESS

L16 · Thu Oct 8 · Ch 12 · Butterflies, combinations, and the issuer's seat

① **MORE STRIKES BUY PRECISION.** A butterfly bets on a place, not a direction, and its price is the second difference of the calls across strikes, so it can never be negative.

② **TWO OPTION TYPES BETS ON SIZE, NOT SIGN.** A straddle pays for any big move; a strangle buys the same bet cheaper by refusing to pay for the middle.

③ **THE ISSUER IS ON THE OTHER SIDE OF ALL OF IT.** A callable bond is a bond plus a short call. Non-exam.

Plan for the hour

9:00 Open and admin, 12 min

9:12 Embedded derivatives, the issuer's seat, 6 min ③

9:18 Butterflies: worked, board rotation, convexity, the spike, 22 min ①

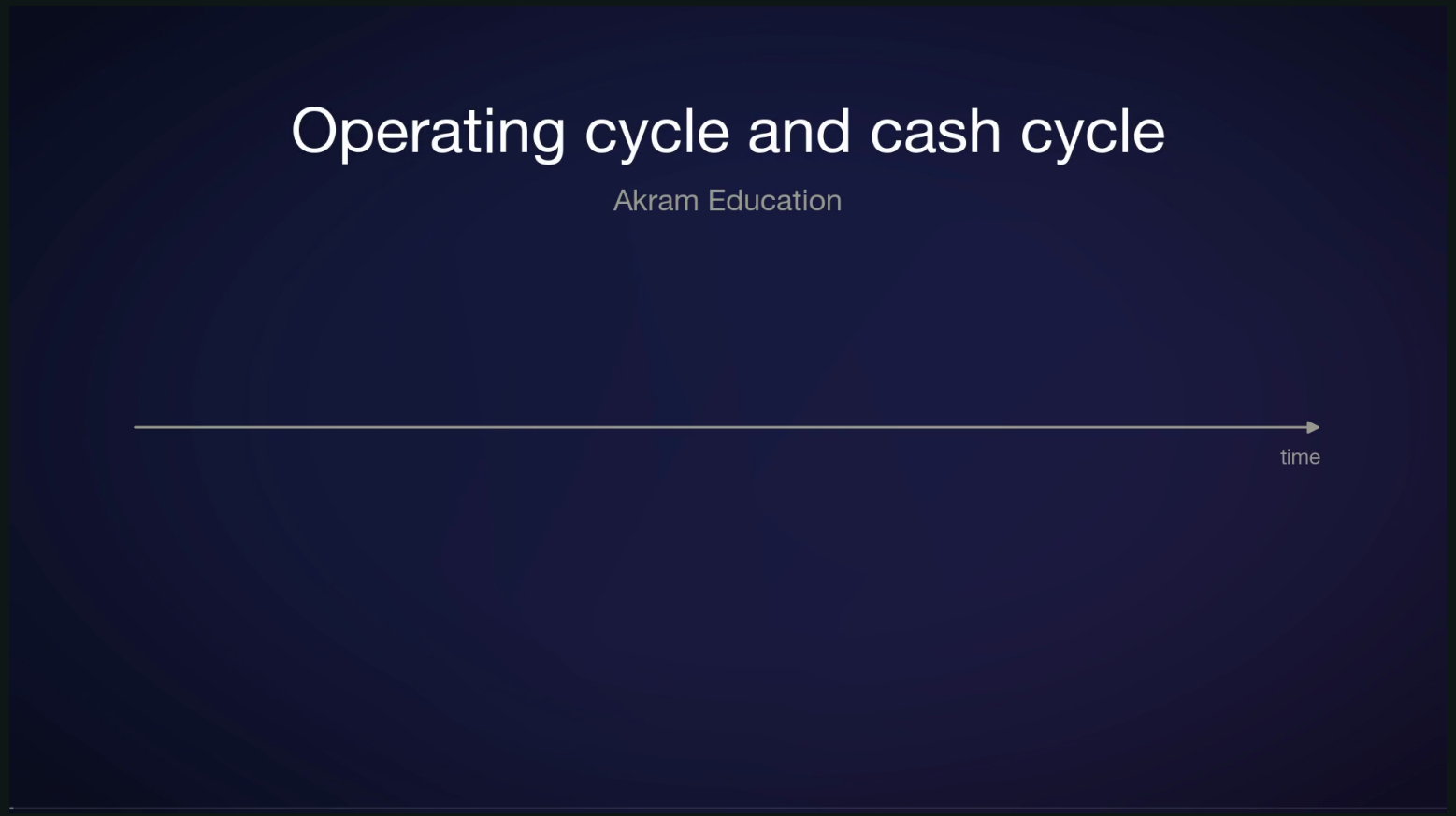
9:40 Straddle, strip and strap, strangle, 18 min ②

9:58 Calendar spreads, 7 min ①

10:05 Buffer, 5 min · **10:10** Close, 5 min

On the board before they walk in: *"Earnings are in three weeks. You are sure the move will be big and you have no idea which way. One trade costs 9.45. Another costs 3.81. Which do you want?"* One answer, do not resolve it. Both numbers are real and it is 9:40.

explainer videos, built on real quiz problems



From my own lecture lines

A script, every number checked

Two narrators, animation, captions

Posted to YouTube and Canvas

Three this week, about ten minutes each. The why comes before any arithmetic.

nothing reaches a student without my yes



Announcements · quizzes · Canvas pages · videos



3 · researcher

It can run my course. It can also read more than I ever could.

ai’s superpower is reading more than i can, fast

and connecting the dots between what it reads

At FGCU: parking, and finding the Adjunct Academy

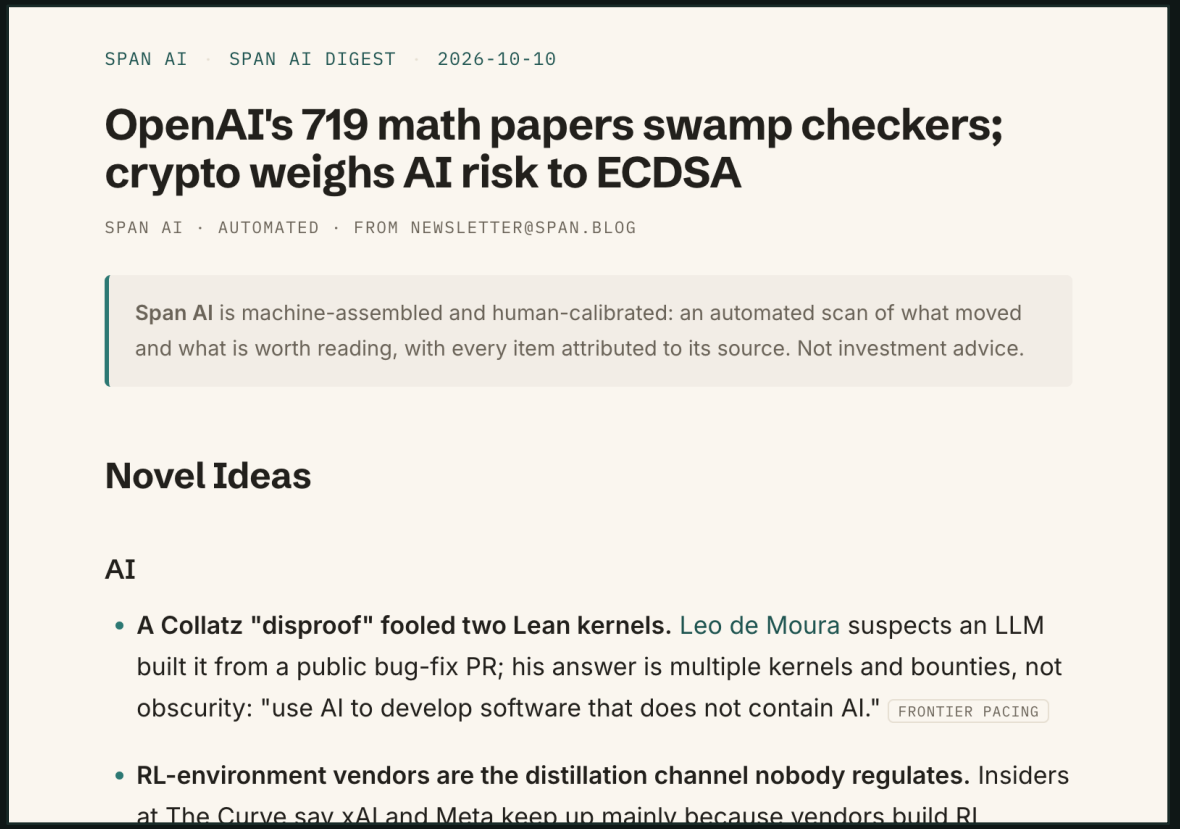
my weekly market research now runs while i sleep

saturday

Reads the week's news, podcasts and posts, then writes a digest

sunday

Does the same for the markets



SPAN AI · SPAN AI DIGEST · 2026-10-10

OpenAI's 719 math papers swamp checkers; crypto weighs AI risk to ECDSA

SPAN AI · AUTOMATED · FROM NEWSLETTER@SPAN.BLOG

> **Span AI** is machine-assembled and human-calibrated: an automated scan of what moved and what is worth reading, with every item attributed to its source. Not investment advice.

Novel Ideas

AI

- **A Collatz "disproof" fooled two Lean kernels.** Leo de Moura suspects an LLM built it from a public bug-fix PR; his answer is multiple kernels and bounties, not obscurity: "use AI to develop software that does not contain AI." FRONTIER PACING
- **RL-environment vendors are the distillation channel nobody regulates.** Insiders at The Curve say xAI and Meta keep up mainly because vendors build RL

a market note, every weekday

For my team at work: rates, stocks, crypto, every number checked against its source and date

Why the check: one morning it called the 10-year “unchanged.” It had hit a 19-year high. The source was a day late.

it reads every sec filing so i don't have to

- Two public companies I follow for work
- Every quarterly report and insider filing
- It caught a fund quietly buying nearly 20%

The skill I want students to have: go to the source, then check the work.



live demo

That’s what it does for me. Now let’s build yours, live.

demo

getting started takes one folder and one tool

Claude Code: an AI that works inside a folder on your computer

It reads your real files and does real work. It isn't a window you paste into.

demo

organize your context so it already knows you

```
my-teaching/
   CLAUDE.md          read first: points to everything else
   context.md         who I am, what each folder is for
   FIN-3403/
      context.md      this course: syllabus, pacing, rules
      todo.md         what's left to do
      state.md        where things stand
```

demo

live: what i'm about to ask it

1. Build this folder from a screenshot
2. Write a five-question quiz with an answer key
3. Find Costco's latest 10-Q and its cash cycle



one last question

Everything today changes how we teach.
The bigger question is what we teach.

what we teach

the formula is the way in. the intuition is the point.

the formula

Inventory days
+ receivables days
− payables days

the intuition

How many days does the business have to finance itself?

Calculators exist. We still teach arithmetic.

questions?

thank you

akram.education/talks · handout, slides and notes

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