

AI in the Finance Classroom

Today's Session

40 min

Teaching Finance with AI: Applications

20 min

Integrity, Equity, and Literacy: Ethics of AI

20 min

AI as Your Teaching Assistant: Practical Tools

10 min

Q&A / Open Discussion

Teaching Finance with AI: Applications

Top 10 Applications for Instruction, Planning, and Assessment

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Link to Accompanying Materials: <https://bit.ly/4bE3wek> QR →



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Where are you on AI adoption in your courses?

Poll type: Multiple Choice

A. Haven't started yet

B. Exploring / experimenting

C. Using AI in 1–2 assignments

D. Deeply integrated across my course(s)



The Landscape: Why This Matters Now



Employer Demand Is Surging

Workers with AI skills earn a 56% wage premium

(PwC Global AI Jobs Barometer, 2025)

AI skill demand growing 66% faster in exposed roles vs. non-exposed roles

(WEF Future of Jobs Report, Jan 2025)

75% of knowledge workers already use AI tools at work

(McKinsey State of AI, 2025)



Business Schools Are Moving Fast

AACSB Jan 2026 framework: 48 schools show shift from experimentation to implementation

(AACSB AI Framework Update, Jan 2026)

AI literacy now treated as a foundational competency for all business graduates

(AACSB, Jan 2026)

Foster School of Business: every incoming student completes an AI bootcamp since Fall 2025

(AACSB Insights, Feb 2026)



The Entry-Level Landscape Is Shifting

Entry-level tech hiring at top 15 firms fell 25% from 2023–2024

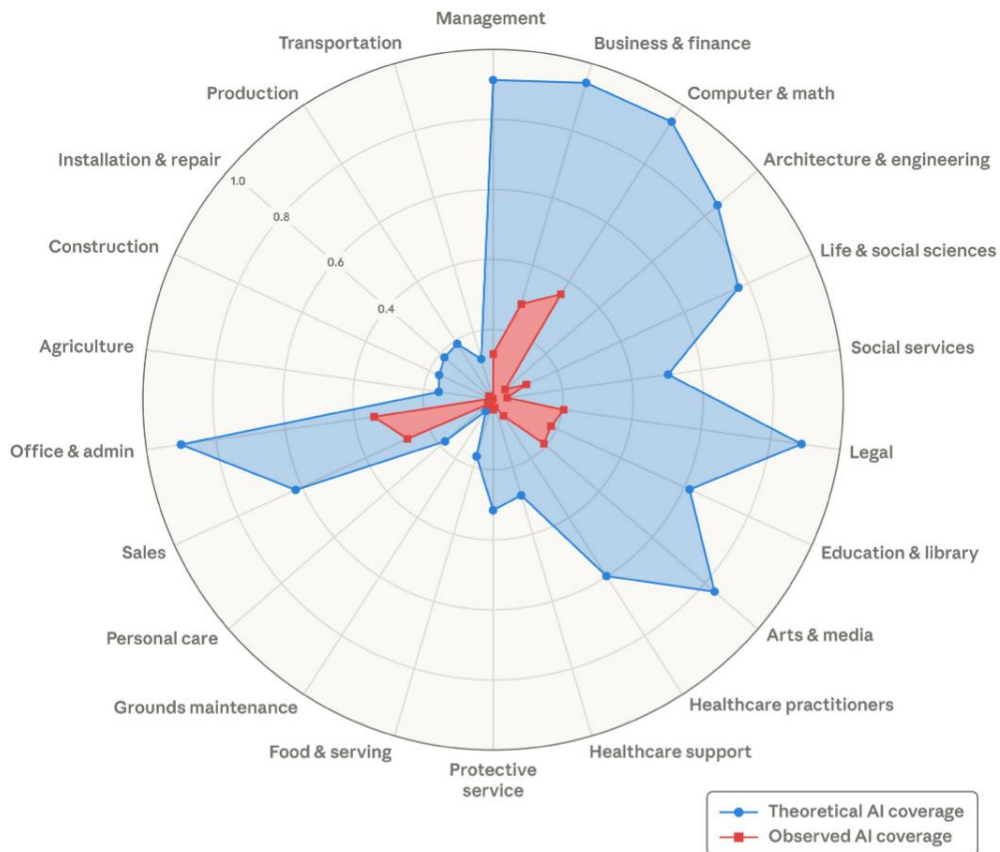
(SignalFire, May 2025 via IEEE Spectrum)

NACE Job Outlook 2026: plurality of employers rate market for new grads as only “fair”

(NACE, Nov 2025)

Our graduates need AI fluency not as a bonus—but as a baseline for employability

Theoretical capability and observed exposure by occupational category



Source: Anthropic, March 5, 2026: [Labor market impacts of AI: A new measure and early evidence](#)

- US usage

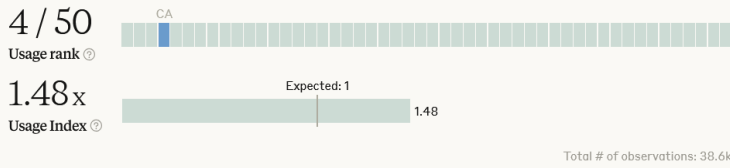
- State usage

- Global usage

- Country usage

- Job explorer

California



Most frequent Most distinctive

The most common topics in California.

1. **Complete academic assignments** and create educational materials across all subjects 3.9%

2. Help research, compare, and select consumer products for purchasing decisions 3.6%

3. **Assist with business planning**, strategy, and entrepreneurial development 3.4%

4. Complete humanities and **social science academic assignments** across multiple disciplines 3.3%

5. Draft and revise professional workplace correspondence and business communications 3.3%

6. Debug, fix, and refactor code across programming languages and development tasks 3.2%

7. Assist with job searching, career planning, and professional development 2.9%

8. Write, develop, and edit original creative fiction across multiple genres 2.7%

9. Help with machine learning, AI development, and technical implementation 2.0%

10. Troubleshoot technical issues with hardware, software, and system configuration 1.8%

Anthropic Economic Index Report
See the analysis behind the numbers and what these patterns reveal about AI's economic impact.

[Read the report →](#)

- [Download dataset](#)
- [Get email updates](#)

How people are using Claude

Click a tile to drill into more granular data


Group by job Group by category

Categorized using request hierarchy



Percentages represent the share of Claude.ai conversations associated with each task or group of tasks. Graphic shows what people do with Claude, not their job titles. Percentages don't sum to 100% because we impose privacy filters.

Top 10 AI Applications: At a Glance

-  Simulated C-Suite / Client Role-Play
-  AI-Assisted Formative Feedback
-  AI Socratic Tutor
-  AI-Aware Assessment Design
-  Financial Data Analysis & Visualization
-  Content Generation (Exams, Cases, Materials)
-  Real-Time Market Context & Case Enhancement
-  Coding Assistance & 'Vibe Coding'
-  AI Literacy & Critical Evaluation
-  Simulation, Monte Carlo & Scenario Analysis

Ranked by: Instructional Impact (40%) | Feasibility for Faculty (35%) | Strength of Evidence (25%)

#1 Simulated C-Suite / Client Role-Play

Intermediate

Corp. Finance, Personal Finance, Investments

What It Does

Custom AI chatbots adopt personas (skeptical CFO, anxious client, IC member) with pre-loaded financial data and programmed pushback. Students practice high-stakes interactions in an infinitely repeatable, low-stakes environment.

Why It Works

Uniquely combines finance content mastery, professional skill development, and AI literacy in a single exercise. The AI never tires, never breaks character, and provides realistic pushback that peers cannot replicate.

Try It This Week

Give students this prompt in class: “You are a skeptical CFO. I will pitch a \$30M warehouse expansion. My NPV shows \$4.2M at 10%. Push back on my 6% growth rate and discount rate.” 5-minute phone interaction, 3 bullets submitted.

#2 AI-Assisted Formative Feedback

Beginner

All finance courses with written components

What It Does

AI generates first-pass rubric-aligned feedback on student drafts. Faculty review, edit, personalize. Students can also self-revise before submission using structured prompts. Turnaround time cut ~40–50%.

Why It Works

Addresses the #1 faculty time sink. Students turn in stronger drafts. Process-based grading (original → AI feedback → revision → reflection) builds metacognition and editorial judgment.

Try It This Week

Paste one student submission + your rubric into ChatGPT or Claude. Ask for rubric-aligned feedback with strengths, weaknesses, and suggestions per category. Compare to what you’d have written. Track time saved.

#3 AI Socratic Tutor

Beginner

Principles, Corporate Finance, Investments

What It Does

Always-available AI tutors use Socratic questioning to guide understanding—re-explaining concepts via formulas, calculator logic, spreadsheet functions, and real-world analogies. Students self-diagnose knowledge gaps without social anxiety.

Why It Works

Scales individualized attention. HBS reports 75% student usage. A Harvard study on AI tutors in physics found students learned more than twice as much in less time vs. traditional methods.

Try It This Week

Create a half-page handout with 2 prompt templates: a Socratic tutor for your course's most-struggled concept (TVM, bond pricing, WACC) and a practice problem generator. Students try one AI tutoring session before next class.

#4 AI-Aware Assessment Design

Intermediate

All finance courses (UG and MBA)

What It Does

Redesign assessments: parameterized inputs, justification memos, oral check-ins. Shift from “can you compute this?” to “can you explain why this answer matters and what could change it?”

Why It Works

AI detection tools have high false-positive rates—don't rely on them. Process-based grading makes AI visible in the workflow rather than a hidden threat. Oral check-ins (3–5 min) verify understanding.

Try It This Week

Add two questions to your next exam: (1) “What does this result mean for the firm's strategic decision?” and (2) “Identify the single assumption that would reverse your recommendation.” No tech needed.

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What's the biggest barrier keeping you from trying these?

Poll type: Multiple Choice

A. Time to learn the tools

B. Concerns about academic integrity

C. Unsure how to assess student work

D. Institutional support / policy uncertainty



#5 Financial Data Analysis & Visualization

Intermediate

Financial Analytics, Investments, Fintech

What It Does

Students describe analyses in natural language; AI generates and executes code (Python, R). Shifts bottleneck from “can you write the code?” to “can you interpret the output and make a recommendation?”

Why It Works

Removes the coding barrier from data-driven finance. Every analysis must include a manual verification checklist and a “so what?” memo tying findings to a financial decision.

Try It This Week

Download a free CSV from Kenneth French’s data library. Upload to ChatGPT: “Calculate average monthly returns and std dev for market, SMB, HML. Display as a bar chart.” Show in class (30 sec). Ask: “What would you check?”

#6 Content Generation: Exams, Cases, Materials

Beginner

All finance courses (UG and MBA)

What It Does

AI drafts problem-set variants, mini case studies tied to current events, discussion questions, learning objectives, and AACSB documentation. Faculty serve as editors and curators.

Why It Works

Reduces content development from hours to minutes. Fresh materials each semester. Multiple exam versions for integrity. Caution: ALWAYS verify AI-fabricated financial data against primary sources before distributing.

Try It This Week

Ask ChatGPT: “Generate 3 bond pricing variants—different coupon rates, maturities, YTM. Include answer keys.” Compare to your existing problem set. Edit the best one. Total: 15 minutes.

#7 Real-Time Market Context & Case Enhancement

Beginner/Inter.

Corp. Finance, Investments, Personal Finance

What It Does

AI with web search updates aging case studies with recent earnings, analyst estimates, credit rating changes, and material events. Students write “Case Update Memos” bridging past to present.

Why It Works

Cases age quickly in finance. Students learn that analysis is never “finished”—it must be continuously updated. Builds the analyst habit of verification against primary sources (10-K, EDGAR).

Try It This Week

Before your next case discussion: “Open ChatGPT. Ask what happened to [Case Company] since [year]. Find one development that changes the analysis. Verify with one primary source. Bring to class.”

#8 Coding Assistance & ‘Vibe Coding’

Inter./Advanced

Financial Modeling, Analytics, Fintech, Derivatives

What It Does

‘Vibe coding’ (Kerry Back, Rice): students describe financial logic in plain English, AI generates code, students verify, annotate, modify, and interpret. The student becomes a ‘systems architect.’

Why It Works

Lowers the programming barrier in quantitative finance. The annotation and oral walkthrough requirements distinguish students who understand from those who copy-paste.

Try It This Week

In class: “Write Python to calculate PV of \$10,000 in 5 years at 7%.” Display result. Students suggest a modification in English. Paste it. Ask: “How would you verify this?” 8 minutes total.

#9 AI Literacy & Critical Evaluation

Beginner

All finance courses, especially Fintech

What It Does

Students test, evaluate, and critique AI outputs on finance topics they already understand. Cross-platform comparison (ChatGPT vs. Claude vs. Gemini) builds evaluative judgment. Repeatable “AI Audit” assignment format.

Why It Works

Prepares graduates for AI-embedded financial workplaces. Builds professional skepticism. Reinforces finance content—students learn by finding where AI gets it wrong.

Try It This Week

The 2-Minute AI Audit: Every student asks AI a finance question they know cold. 2 minutes to find an error. Show of hands: “How many found one?” 5 minutes total, zero prep, zero setup.

#10 Simulation, Monte Carlo & Scenario Analysis

Advanced

Portfolio Mgmt, Derivatives, Risk, Capstone

What It Does

AI generates simulation code from natural-language descriptions. Students build Monte Carlo retirement projections, option pricing models, and multi-scenario stress tests with working visualizations.

Why It Works

Most transformative but highest barrier. Conveys probabilistic thinking that static textbook examples cannot. Students must write specification documents and defend assumptions under Q&A.

Try It This Week

Zero-infrastructure demo: ChatGPT Code Interpreter: “Simulate 1,000 coin flips. Plot the running average. Add a line at 0.5.” Show convergence. “Now imagine stock returns and retirement savings.” 60 seconds.

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**What is your biggest concern about
integrating AI in your courses?**

Poll type: Word Cloud

Type your answer in 1–3 words



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Where do you most need AI to help in your courses?

Poll type: Multiple Choice

A. Scaling personalized feedback

B. Making assessments more AI-resistant

C. Getting students to engage with data

D. Building professional communication skills



Three Adoption Paths

Path A: Try It Tomorrow

- 1 Pick one concept students struggle with. Provide a Socratic prompt template.
- 2 Add an AI disclosure statement to one assignment (students submit prompts + verification log).
- 3 Run one 10-minute role-play: AI as CFO/client, student as analyst.

Path B: Course Redesign Light

- 1 Shift one assessment to AI-aware design (parameterized inputs, explanation-first grading).
- 2 Use AI for formative feedback on a draft, then grade the revision.
- 3 Add one data-analysis lab with AI for coding assistance (documented).

Path C: Build a Custom Ecosystem

- 1 Create a course chatbot constrained to your syllabus, formulas, and notation.
- 2 Deploy persona-based simulations (IC, credit committee, fraud team) with synthetic cases.
- 3 Pilot agent-based market simulations or capstone projects using open-source finance LLM frameworks.

Key Safeguards for Responsible Integration



Verification Habits

Require verification against textbooks, primary sources (10-K, EDGAR), and manual calculations. Build 'verification logs' into every assignment.



Clear AI Policies

Define AI-prohibited, AI-transparent, and AI-required for each assignment. Move along the spectrum as competence develops.



Process Over Product

Grade the process: original drafts, AI prompts, revision decisions, reflection memos. Emphasize 'why' over 'what.'



Equity of Access

Provide campus-supported AI access. Offer alternative pathways for students who cannot or choose not to use AI tools.



Oral Check-Ins

3–5 minute oral defense of key decisions. Prevents outsourcing understanding without creating undue time burden.



Privacy Guardrails

No real student data in public AI tools. Fictional scenarios only for role-play. Institutionally approved platforms where required.

OECD-Aligned Frameworks (Digital Education Outlook 2026)



Human Credibility Touchpoints

Students trust human feedback more than AI feedback. Every AI-assisted assignment needs at least one personal instructor comment and one student self-explanation step.



AI Use Policy Matrix

OECD recommends discipline-specific policies at the assignment level. Define prohibited, transparent, and required uses per assignment type in your syllabus.



Curricular Diversity Check

AI-generated cases cluster around large-cap U.S. tech. Rotate by sector, firm size, geography, stakeholder lens, and market regime to prevent homogenization.



Equity Lens

AI tutoring may not benefit all student subgroups equally. Track outcomes by GPA, language background, and major. Offer non-AI alternatives where needed.



5-Dimension Evaluation

For each AI application, measure: performance, retention, engagement, equity, and instructor workload. Start with one app, one dimension.



Transfer Dimension

Add a rubric dimension: what did the student change in their next attempt based on AI interaction? Measures whether learning transfers beyond the exercise.

Pedagogical Foundations

Bloom's Taxonomy in the AI Era

AI handles lower levels:

Remembering, Understanding, Applying

Faculty focus on upper levels:

Analyzing – Comparing AI-generated DCF models against manual projections

Evaluating – Critiquing AI-generated trading strategies for hidden assumptions

Creating – Designing novel hedging strategies using AI as a prototyping tool

Critical Risks (OECD)

Cognitive Offloading

Students rely on AI to think, degrading their own skills.

Mitigation: 'teach-back' exercises and AI-free assessment components.

Illusion of Explanatory Depth

Students read coherent AI answers and believe they understand.

Mitigation: require novel application in new contexts.

The Memorization Problem in LLMs

Models may regurgitate training data, not reason.

Mitigation: assessments requiring real-time, novel data application.

The smartphone in every student's pocket is no longer just a distraction—it's a portal to the most powerful financial analyst assistant ever created.

Provided we teach them how to use it.

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