

EMPOWERING EVERYONE WITH THE DIGITAL AGILITY TO THRIVE IN AN EVOLVING WORLD

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Joshua is a data science industry veteran with a twenty-five-year career spanning 4 languages and 50 countries. He has served on Alabama's Artificial Intelligence Commission, is a TEDx speaker, received his undergraduate degree from Alabama and holds an MBA from Emory University.

Inc.

Forbes

UB University
Business



TIME



THE HECHINGER REPORT

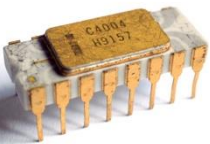
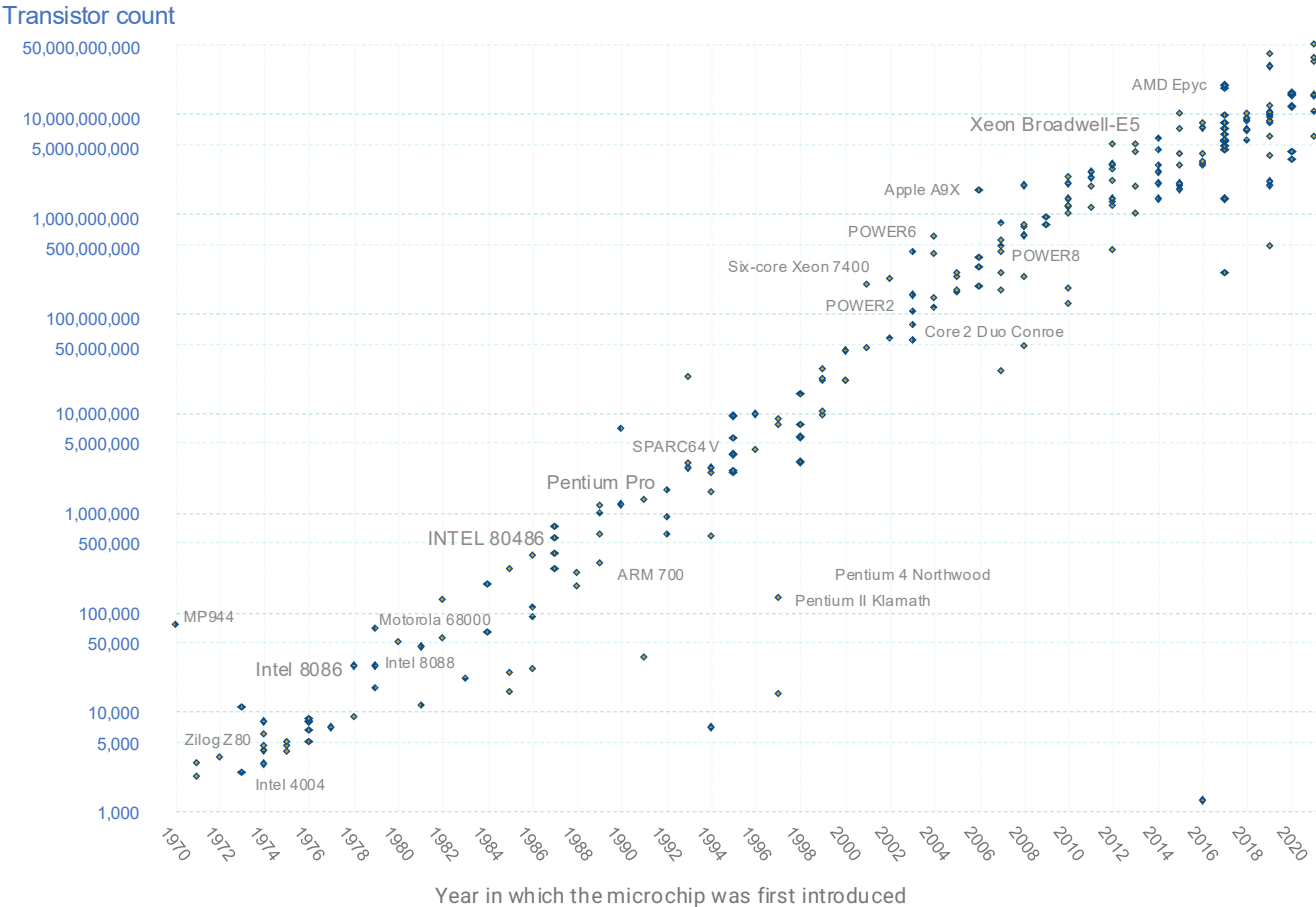
Newsweek

The74

ACSB

**AI isn't eliminating work –
it's changing its shape.**

Moore's law: the number of transistors on microchips doubles every two years



SOURCE: OurWorldInData.org

CAPABILITIES

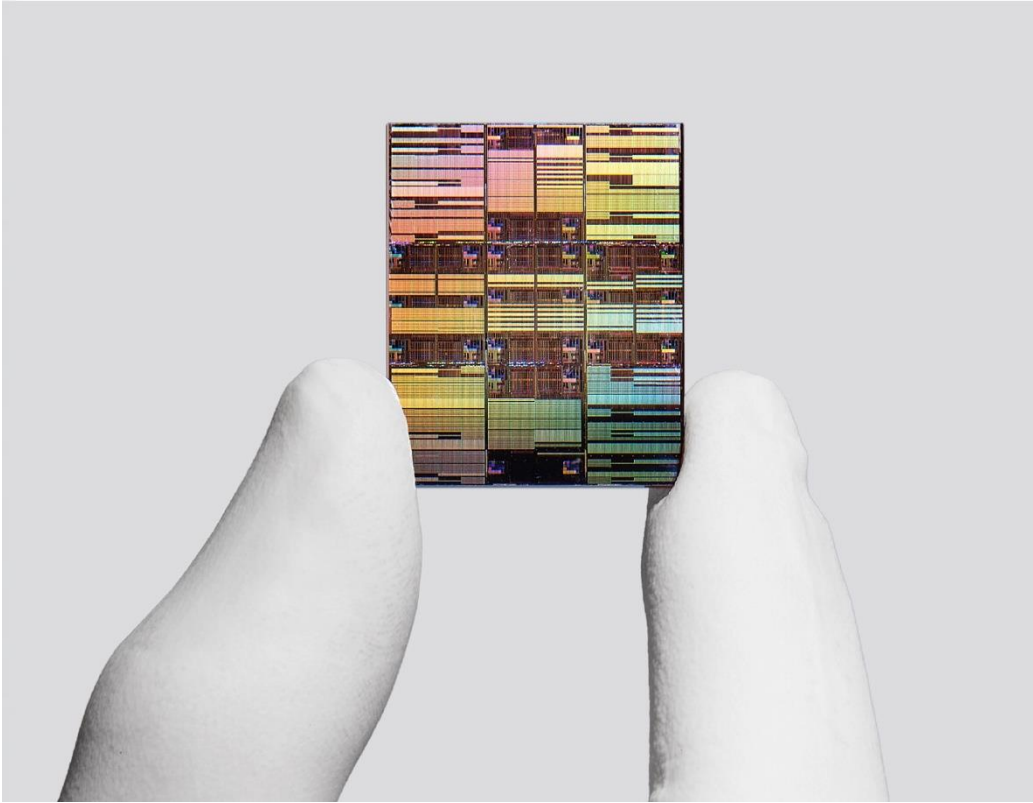
TIME

0.3mm

~3mm

~6mm

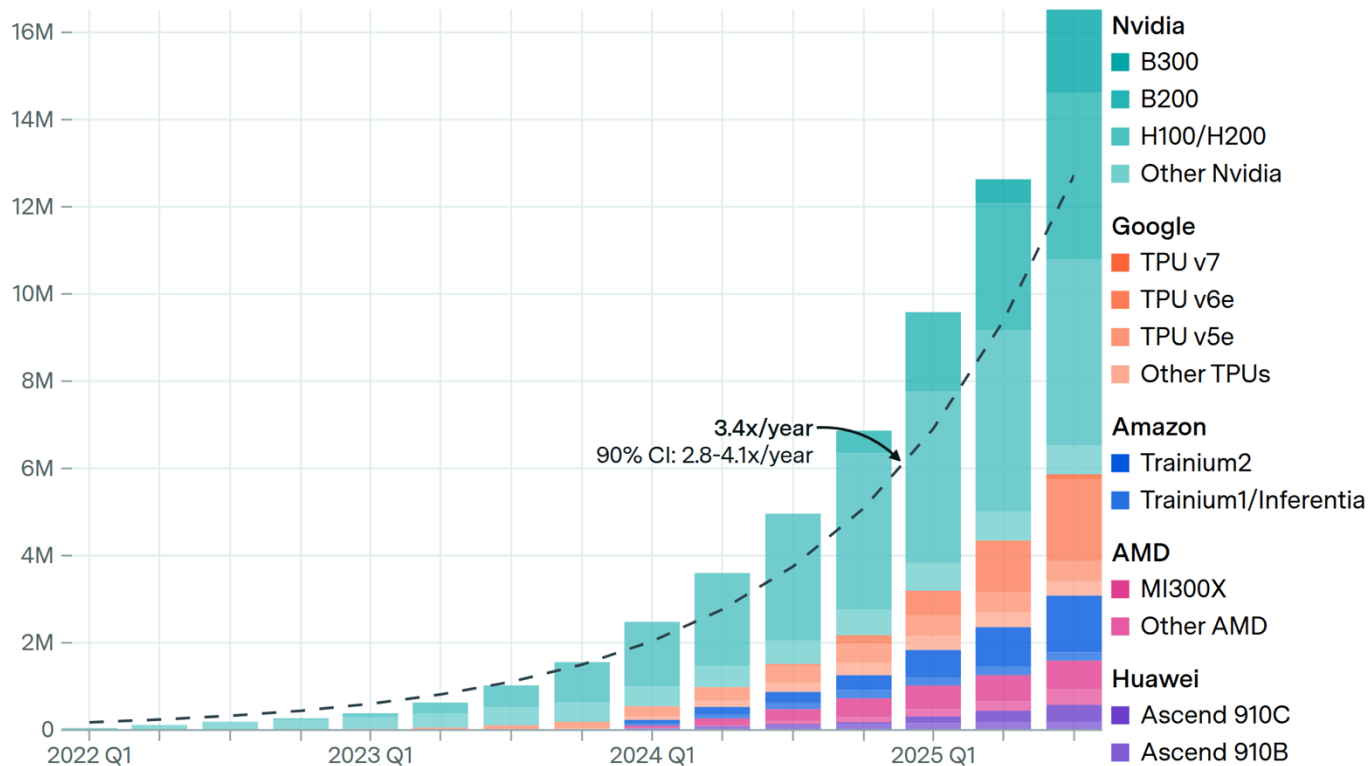




0.7 nanometer

GLOBAL COMPUTE CAPACITY IS DOUBLING EVERY 7 MONTHS

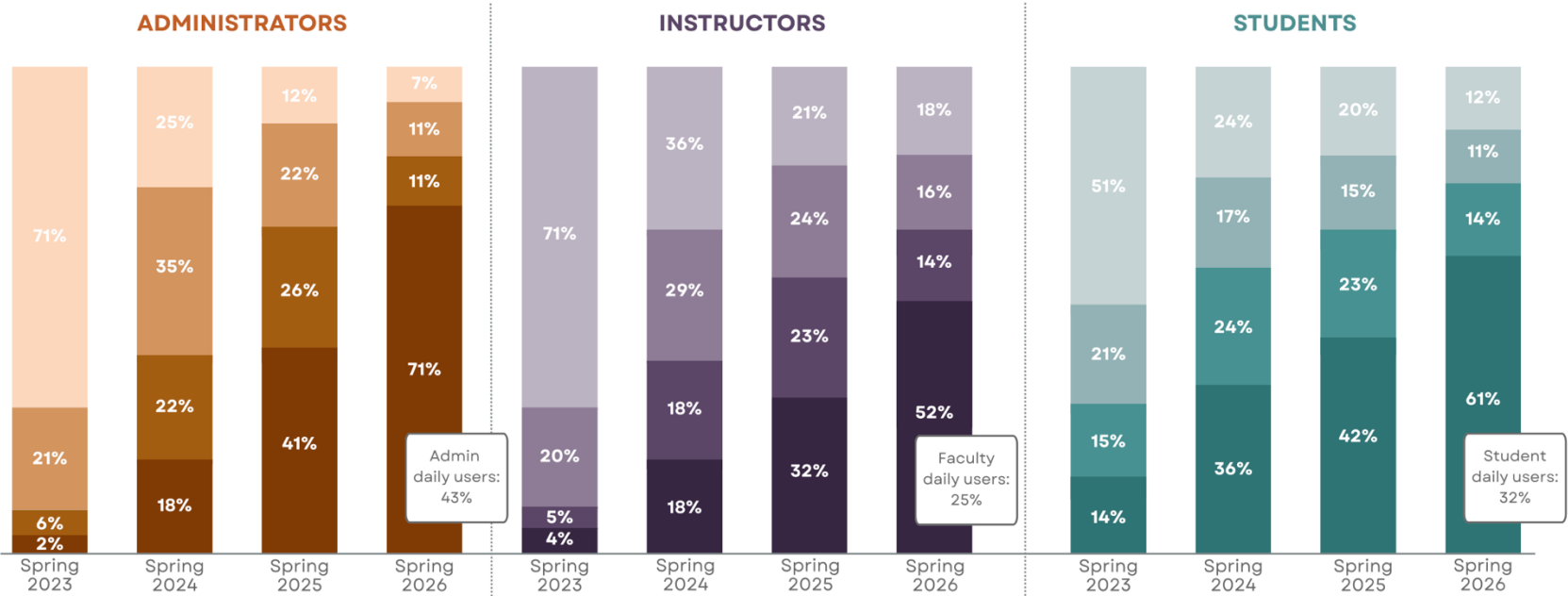
Cumulative compute capacity (H100e)



FACULTY & STAFF USE IS ROUGHLY DOUBLING EVERY YEAR

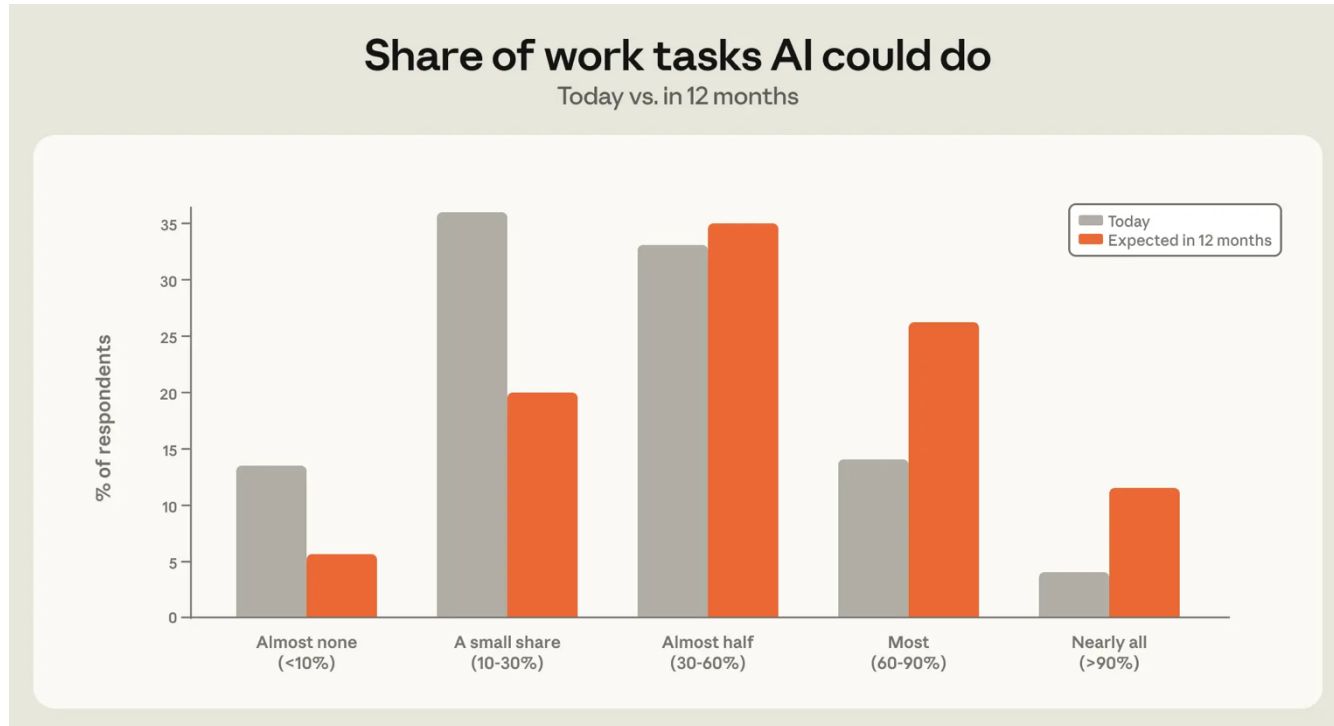
Time series of GenAI usage frequency*
Among all administrator, instructor, and student respondents

■ Use daily or weekly ■ Use monthly ■ Used 1-2 times ■ Never used



Source: Tyton Partners — “Time for Class 2026: The AI Tipping Point”

More than 70% of survey respondents think AI will be able to do half or more of their work in 12 months



“I think if you work as a radiologist, you are like the coyote that’s already over the edge of the cliff but hasn’t yet looked down...**people should stop training radiologists now.** It’s just completely obvious within five years deep learning is going to do better than radiologists....”

Dr. Geoffrey Hinton, 2016



CAPITOL HILL

2:10 PM



ARTIFICIAL INTELLIGENCE IN K-12 EDUCATION

JOSHUA JONES
QuantHub CEO

LIVE ■ 11:10 AM PT

C-SPAN3

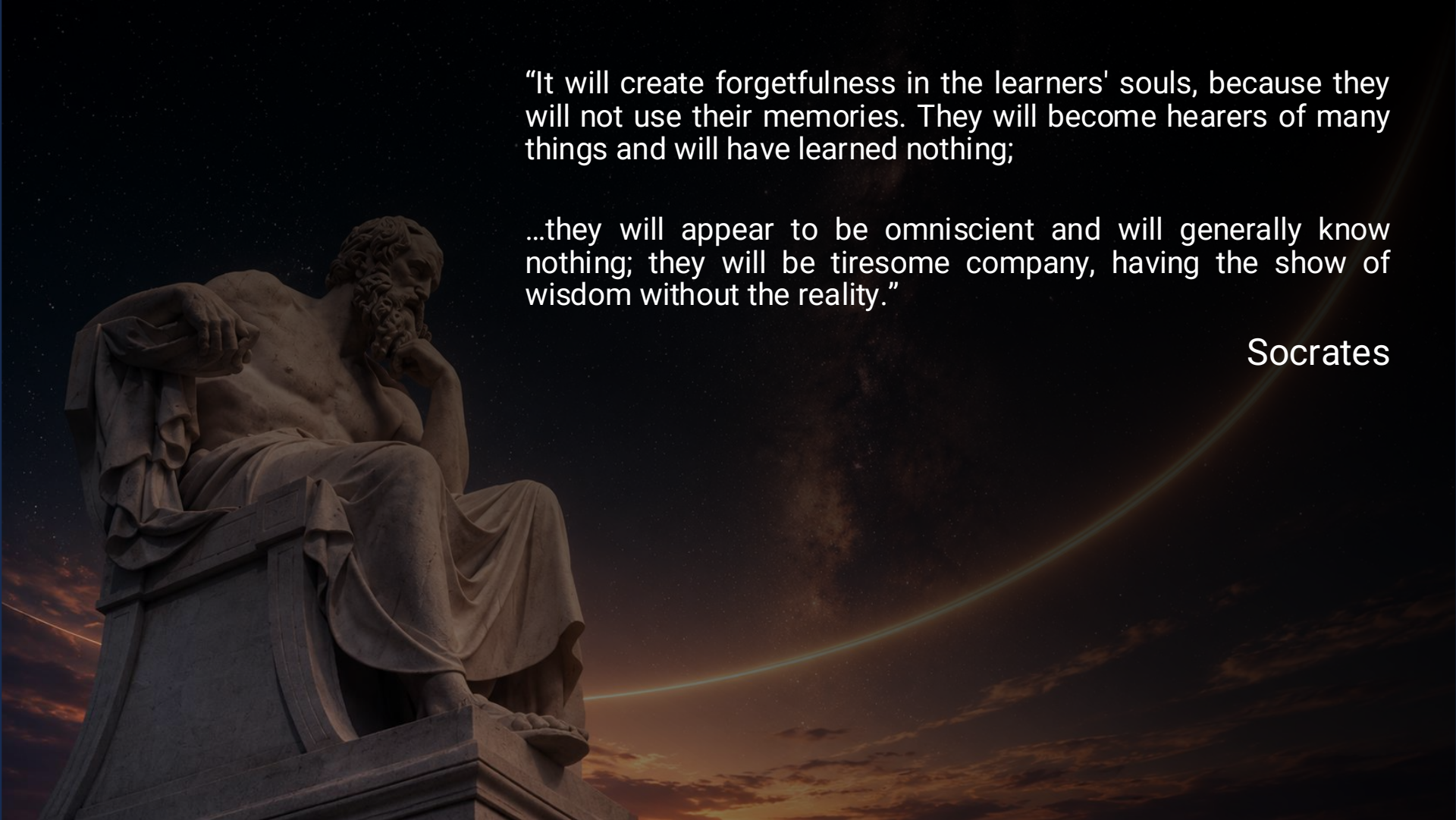
WATCH CONFIRMATION HEARING FOR DIR. OF NAT'L INTELLIGENCE LIVE WED. 2pm ET C-SPAN

What skills should we be
teaching our students that will
still be relevant in five years?

01

First, we have to change *how* we teach:

Aim for desirable difficulty

A statue of Socrates, depicted as an older man with a long, curly beard and hair, is seated on a stone pedestal. He is wearing a simple, draped garment. His right hand is resting on his knee, and his left hand is raised to his chin in a contemplative pose. The background is a dark, starry sky with a prominent, bright, curved arc of light, possibly representing the Milky Way or a celestial body, creating a dramatic and philosophical atmosphere.

“It will create forgetfulness in the learners' souls, because they will not use their memories. They will become hearers of many things and will have learned nothing;

...they will appear to be omniscient and will generally know nothing; they will be tiresome company, having the show of wisdom without the reality.”

Socrates

Table stakes are evolving.





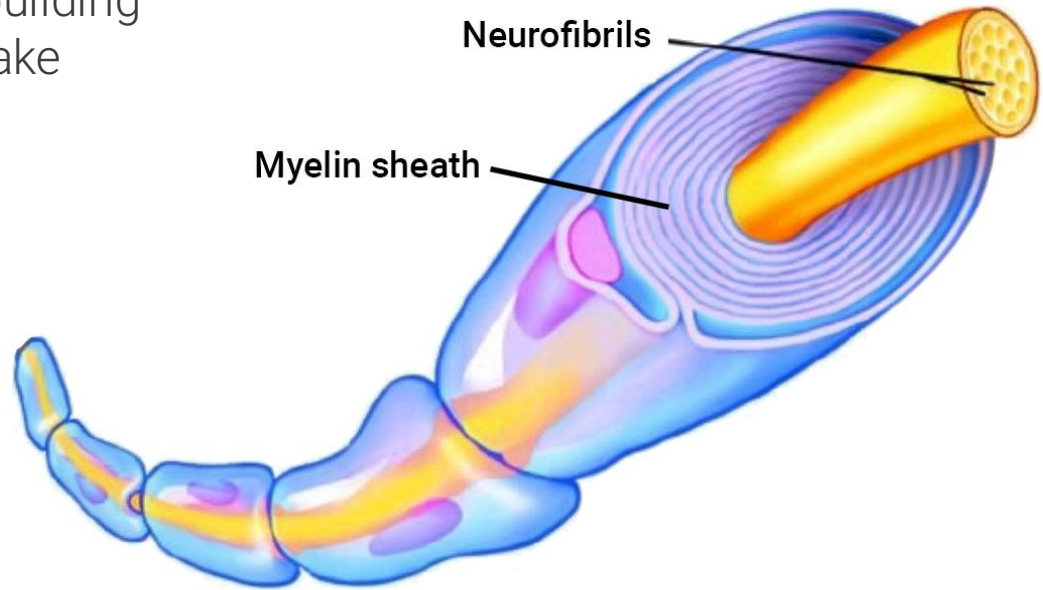




First, we have to change *how* we teach:

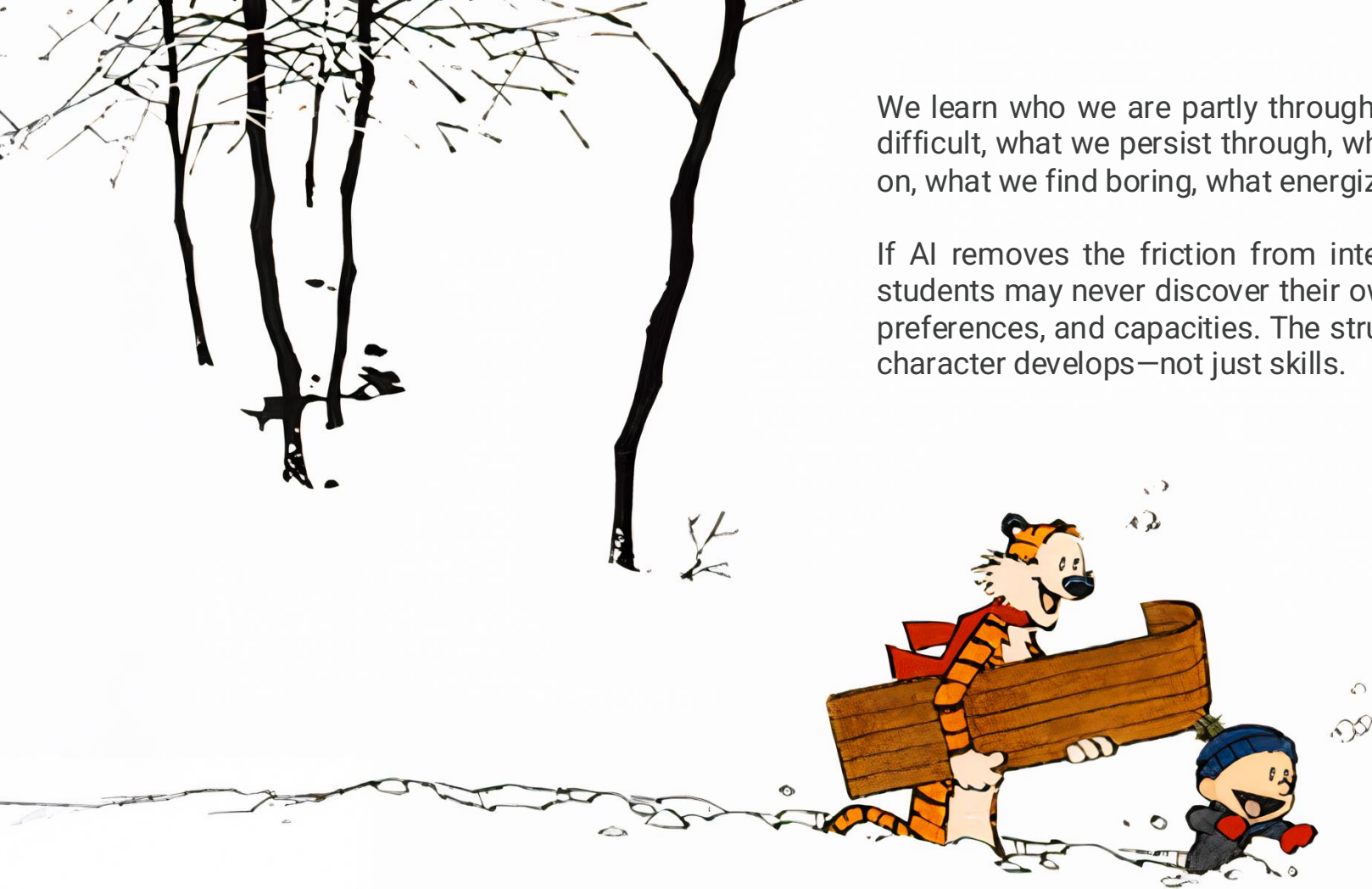
Aim for desirable difficulty

Learning science shows that effortful retrieval strengthens memory traces. When you struggle to recall something, you're building the neural pathways that make future retrieval easier.



We learn who we are partly through what we find difficult, what we persist through, what we give up on, what we find boring, what energizes us.

If AI removes the friction from intellectual work, students may never discover their own tolerances, preferences, and capacities. The struggle is where character develops—not just skills.



Two skill sets

Digital agility skills



Durable skills

Durable Skills



Digital Agility



Durable Skills

Can you think?

Analysis & Innovation

- Sensemaking and Analysis
- Judgment and Discernment
- Creativity and Innovation

Can you connect?

Connective Fluency

- Communication
- Collaboration
- Relational Intelligence
- Leadership and Strategy

Can you deliver?

Adaptive Execution

- Self-Management
- Learning Agility
- Execution and Improvement

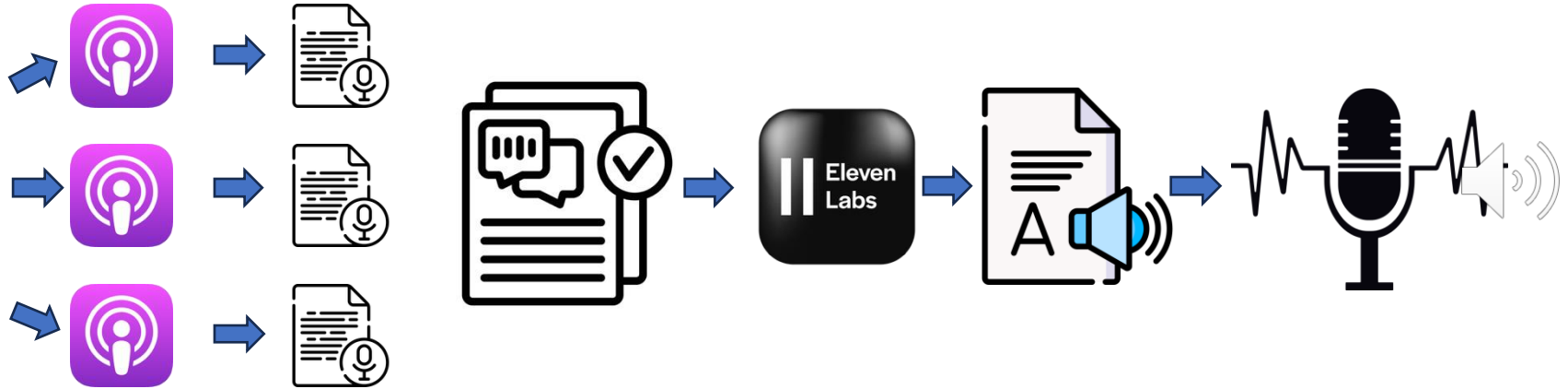
Digital Agility

Frontier Fluency

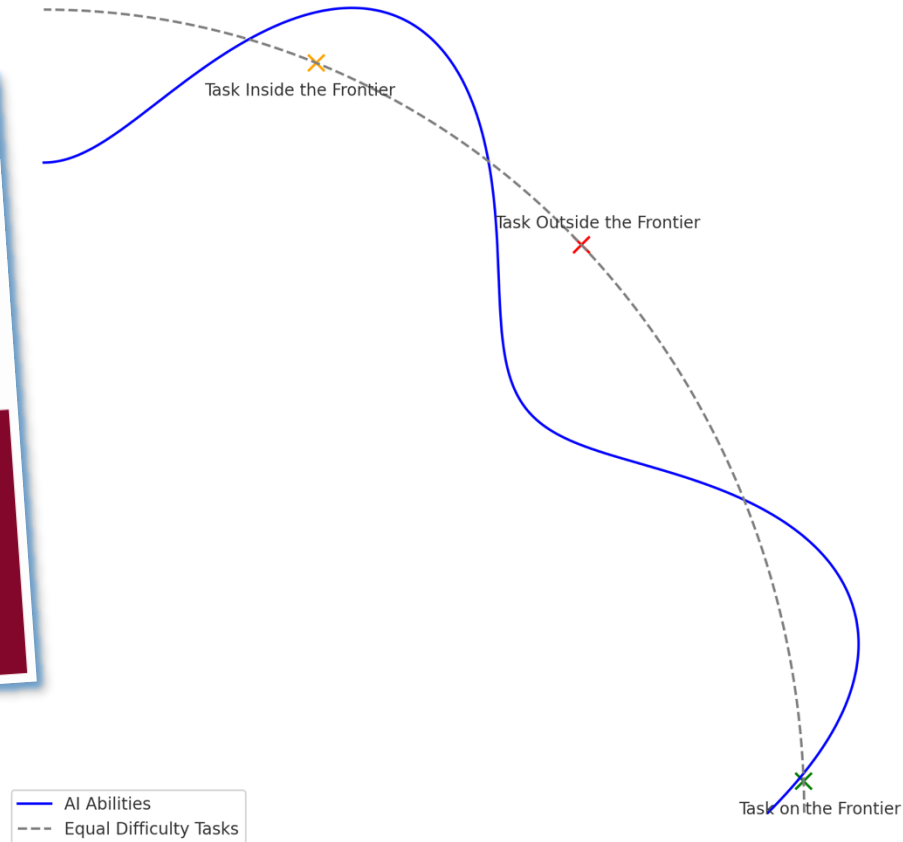
- Digital, Data, and AI Foundations
- Agent Literacy
- Boundary Sensing
- Model and Task Routing



THE QUANTHUB BRIEFING



"THE JAGGED FRONTIER"



Digital Agility

Frontier Fluency

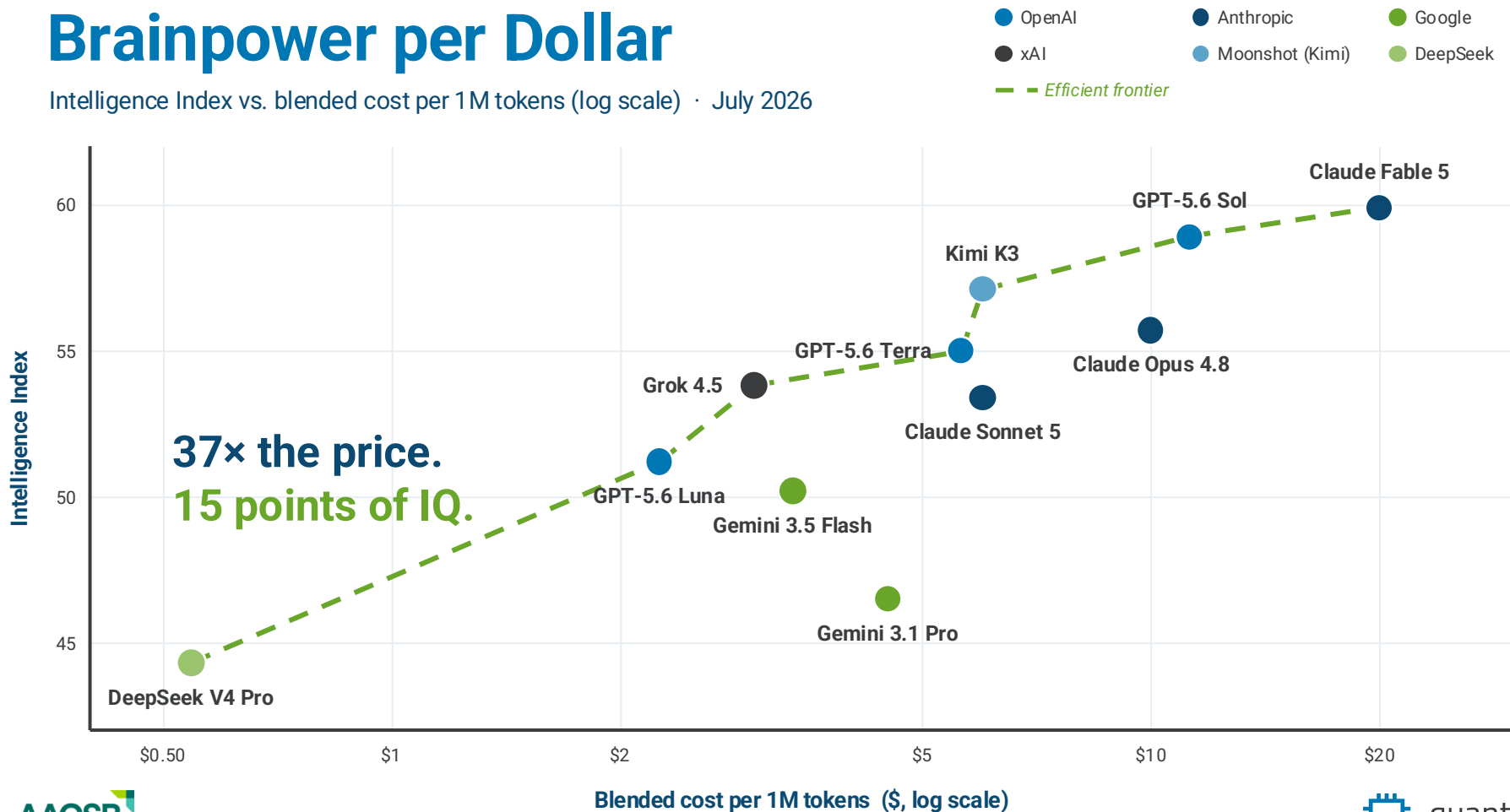
- Digital, Data, and AI Foundations
- Agent Literacy
- Boundary Sensing
- Model and Task Routing

Agentic Work Design

- Specification and Assignment Design
- Context Architecture and Ownership
- Harness, Workflow, and Loop Design

Brainpower per Dollar

Intelligence Index vs. blended cost per 1M tokens (log scale) · July 2026



Digital Agility

Frontier Fluency

- Digital, Data, and AI Foundations
- Agent Literacy
- Boundary Sensing
- Model and Task Routing

Agentic Work Design

- Specification and Assignment Design
- Context Architecture and Ownership
- Harness, Workflow, and Loop Design

Trusted Operations

- Evaluation and Verification
- Failure, Security, and Permission Design
- Cost, Leverage, and Attention Allocation

Do I get it?

Can I design work around it?

Can I run it responsibly at scale?



A job isn't one skill — it's a cluster

THE ACTUAL JOB — HIDDEN IN PLAIN SIGHT

1 Image interpretation

WHAT AI AUTOMATES

2 Clinical integration

3 Procedures & protocols

4 Consultation & communication

5 Quality & orchestration

THE 2016 PERCEPTION

"Reads scans — that's the job."

	2016	2026
Imaging studies / year	~691M	~1 billion
Avg. radiologist salary	~\$400K	~\$571K
Open roles / listings	1,700–2,200	~4,333

2016 – 2026

55%

Growth in radiology staff

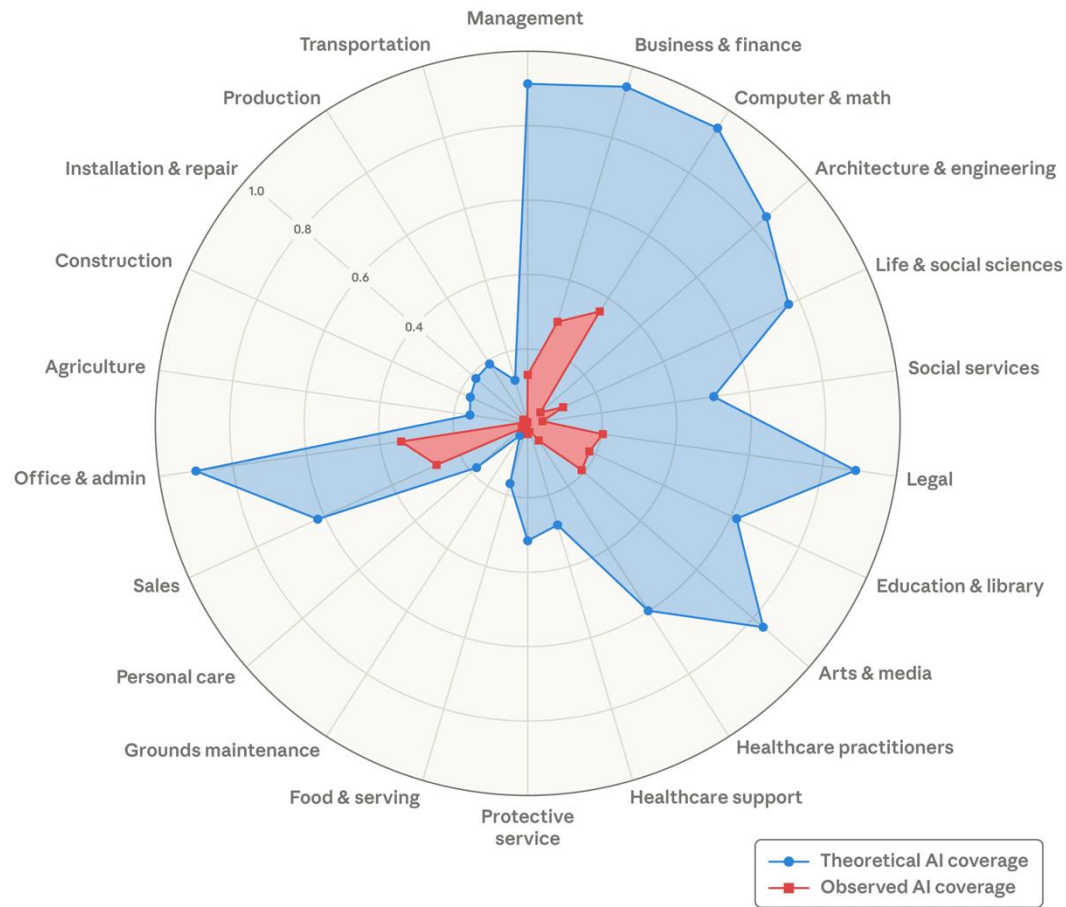
250+

AI models in use

+40

AI-native team members

Theoretical capability and observed usage by occupational category



03

A new form of management

Human + Machine

AACSB 2026

Standard 4.3 Curricula

Curricula ensure that learners develop **agility and an innovative** mindset in adapting to evolving digital, analytical, and information technologies that shape business practice.

Curricula cultivate responsible and ethical use of technology, emphasizing **human judgment, critical evaluation, and appropriate application** rather than mastery of specific tools.

QUANTHUB COVERS 8 VECTORS FOR CAREER READINESS



AI Capabilities

What can AI do?



Process Impact

How is work changing?



Partnership Patterns

Who does what?



Critical Thinking

Why does judgment matter?



Context Engineering

What does AI need from you?



Ethical Frameworks

What's at stake?



Technology Landscapes

Where are the tools headed?



Org Transformation

So what? (Capstone)



AI for automation, analytics, and engineering.

g transformation across 5 - context engineering, AI critical thinking.



AI for Business Healthcare

AI in Healthcare

Equip healthcare leaders to leverage AI for clinical transformation, governance, and strategic planning.

13 units spanning AI subfields, ML paradigms, data quality, governance, risk strategies, change management, and strategic AI roadmapping for healthcare.

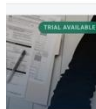


AI for Business Econ De

AI for Economic Dev

Equip economic development leaders to leverage AI across industry and community.

12 units — 6 foundational industry impact, prompt engineering, and AI communications.



collaborate effectively with AI

transformation, human-er, AI tools, ethics, and transformation.



AI for Business Finance

AI for Finance

Prepare finance professionals to leverage AI across workflows with confidence and critical judgment.

8 units covering capabilities, process transformation, collaboration, context engineering, tools, ethics, critical thinking, and organizational career impact in finance.



AI for Business Entrepreneur

AI in Entrepreneurship

Equip entrepreneurs to integrate AI into venture-building workflows and understand the AI maturity model.

8 units covering AI capabilities, process impact, collaboration modes, communication, tools, ethics, critical thinking, and the AI adoption paradox for entrepreneurs.



AI Literacy

AI Foundations

Build ethical AI literacy through core concepts, generative AI, and real-world case studies.

9 units — AI history, business challenges, prompt engineering basics, ethics, security, and AI as a learning and academic partner.

View Units 9 units



AI Literacy

Advanced Prompt Engineering

Master the techniques that unlock AI's full potential across complex, multimodal tasks.

5 units — prompting vs. traditional computing, synthesizing prompt components, influence techniques, complex reasoning approaches, and multimodal strategies.

View Units 5 units



AI Literacy

Applying Generative AI

Apply prompt engineering to real-world data analysis, performance analysis, and project planning.

3 applied units (60 min each) — data-backed analysis, evidence-based performance review, and comprehensive project planning using generative AI.

View Units 3 units



AI for Business Accounting

AI for Accounting

Prepare accounting students to collaborate effectively with AI across common workflows.

8 units — capabilities, workflow transformation, human-AI collaboration, context engineering, AI tools, ethics, critical thinking, and organizational transformation.

View Units 8 units



AI for Business Finance

AI for Finance

Prepare finance professionals to leverage AI across workflows with confidence and critical judgment.

8 units covering capabilities, process transformation, collaboration, context engineering, tools, ethics, critical thinking, and organizational career impact in finance.

View Units 8 units



AI for Business Entrepreneurship

AI in Entrepreneurship

Equip entrepreneurs to integrate AI into venture-building workflows and understand the AI maturity model.

8 units covering AI capabilities, process impact, collaboration modes, communication, tools, ethics, critical thinking, and the AI adoption paradox for entrepreneurs.

View Units 8 units



AI for Business Operations

AI for Operational Management

Equip operations managers to apply AI across forecasting, supply chain, quality, and project management.

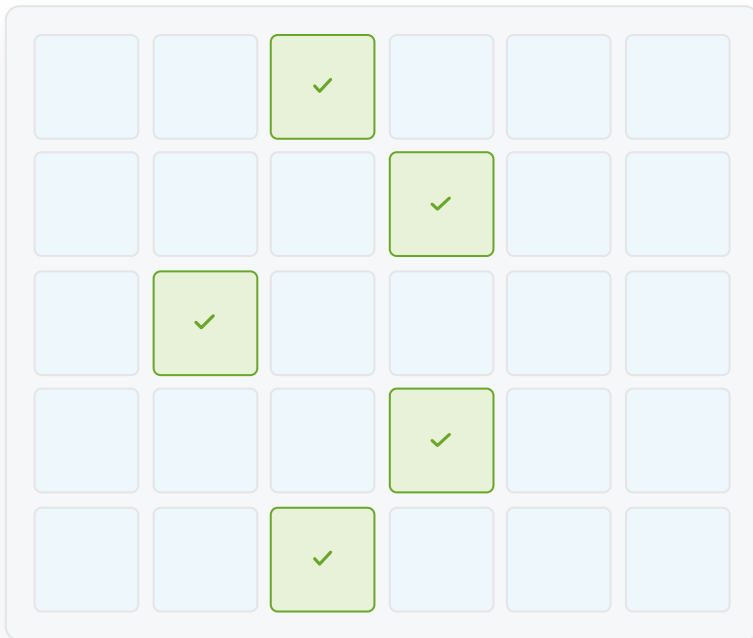
10 planned units — operations & productivity, business strategy, forecasting, process capacity, project management, quality, SPC, supply chain, inventory, and lean operations.

Build your course, one module at a time



QuantHub Catalog

200+ modules



Pick &
sequence



Sample Semester Course - *Marketing Foundations*

Week 1 AI Capabilities in Marketing

Week 3 AI's Impact on Marketing Processes

Week 7 Critical Thinking While Leveraging AI

Week 9 Ethical Use of AI in Marketing

Week X Add as many — or as few — as you need

Each module teaches one focused learning outcome.

At Your Table

- *Desirable difficulty*: Where in your curriculum might AI be removing too much productive struggle—and how could you redesign that activity?
- *Changing table stakes*: Name one skill you currently teach that may become less important, and one that should receive greater emphasis.
- *Action question*: What is one curriculum, faculty-development, or governance experiment your school could realistically launch next semester?



Get in touch!

- Download session slides
- Full 100+ Competency Matrix
- Request more information
- Speaking / Training inquiries



WWW.QUANTHUB.COM