

# The Impact of AI on STEM Careers

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Netflix Recommendations Engineering

# Welcome to the Future (It's Weird Here)



- The AI hype train has no brakes
- Everyone's confused, excited, or terrified
- Let's talk it through, soberly

# Pearl-Clutching: A Timeline



- **2022 (Nov):** ChatGPT 3.5 launches, sparks mainstream awareness
- **2023 (Mid):** LLMs enter coding, writing, and STEM workflows
- **2023 (Late):** AI hallucinations become widely known, trust questioned
- **2024:** Enterprises adopt AI copilots, regulatory talk begins
- **2025:** We're here—still sorting it out.

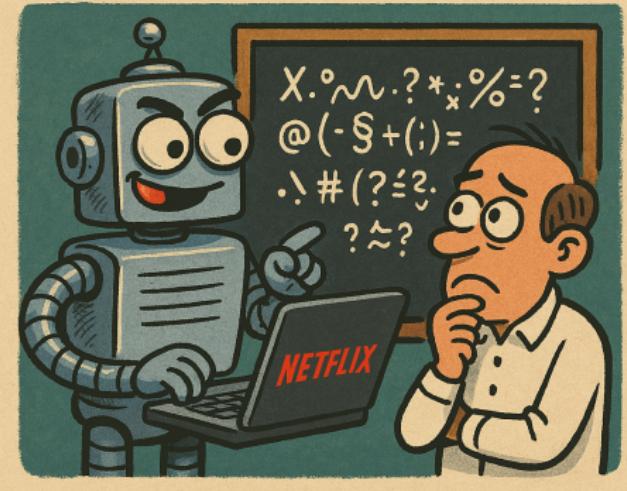
# Your Toaster Writes Code Now (Sometimes)



- Great at text generation and autocomplete
- Surprising coding assistance
- Mediocre reasoning, shaky math
- **Scaling laws:** performance increases predictably with more data, compute, and parameters
- *This trend will likely continue—more capable models are coming*

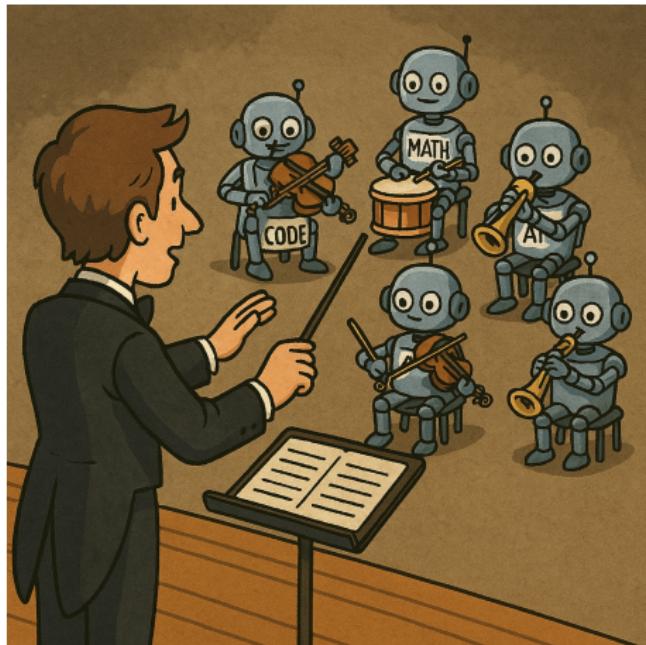
# Calm Down, They're Still Kinda Dumb

**CALM DOWN, THEY'RE  
STILL KINDA DUMB**



- No true understanding or reasoning
- Hallucinate facts confidently
- Fail under ambiguity
- *Are these limits theoretical, or just architectural? We're still figuring that out.*

# From Coders to Conductors



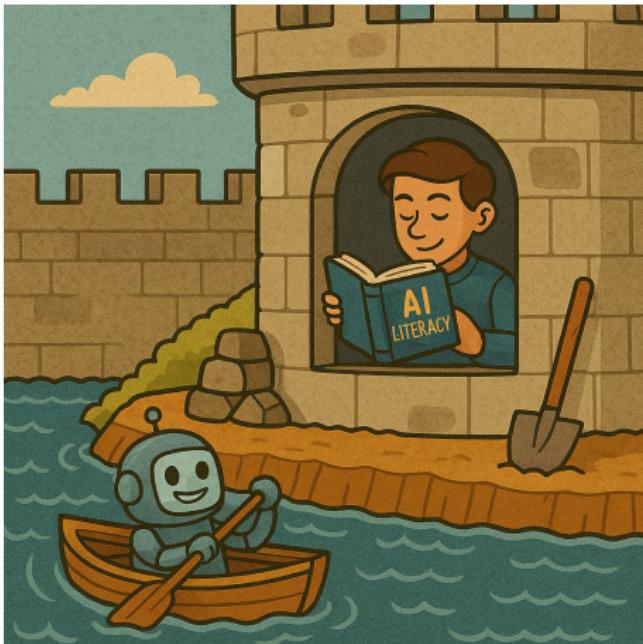
- New hybrid roles emerging
- Model explainers, curators, auditors
- STEM is evolving, not vanishing

# Work Smarter with the Machines



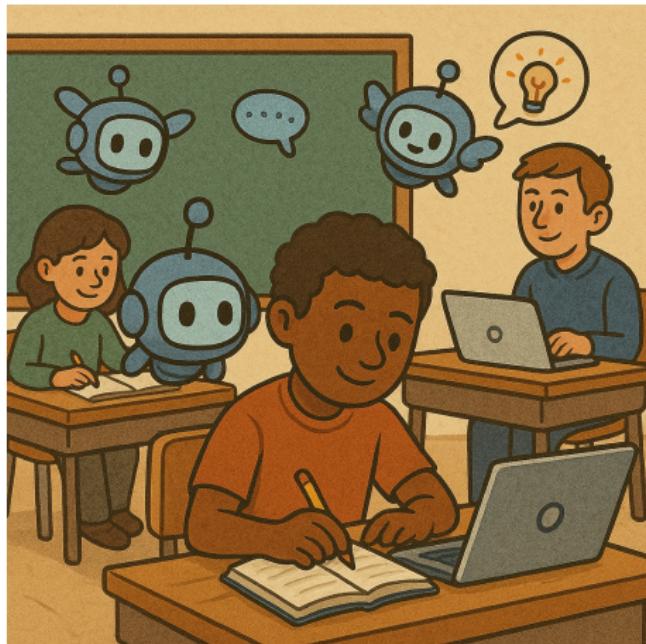
- AI isn't a rival—it's a power tool. Learn to wield it.
- Let AI handle repetitive, low-leverage tasks
- Focus your energy on problem framing, judgment, and impact
- Build intuition around when AI is helpful—and when it's dangerous
- Collaboration with AI is a skill. Practice it.

# Build a Moat (and Maybe a Paddle)



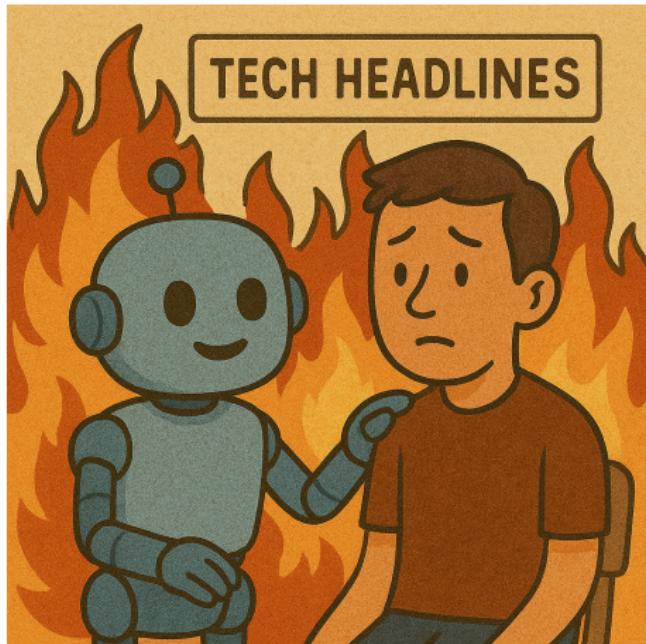
- Emphasize flexibility and learning
- Build domain-specific depth
- Stay current, stay curious

# STEM in the Age of Copilots



- Teach tool fluency, not tool worship
- Encourage systems thinking
- Ethics + AI = required curriculum

# We're Gonna Be Fine (Probably)



- Change is scary but not new
- AI is an amplifier, not a replacement
- Let's evolve with it

## Keep in Touch (Humans Welcome)

Thank you!

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