Preparing Students for Careers in the Age of AI

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1

AI is both a problem and a solution.

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2

AI is both a problem and a solution.

3

AI won't take your job.
A human with AI will.

4

Be the human with AI!

Help your students be the human with AI!

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"Saving humanity with and from AI is the defining challenge of our age."

– Richard Susskind

6

AI is both a problem and a solution.

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Example of AI Changing Job Market

☆ Media and Communications Job Postings on Indeed in the United States (IHLIDXUSTPMECO)

Observations ⌄
2025-10-24: **64.57**
Updated: Oct 29, 2025 11:12 AM CDT
Next Release Date: Not Available
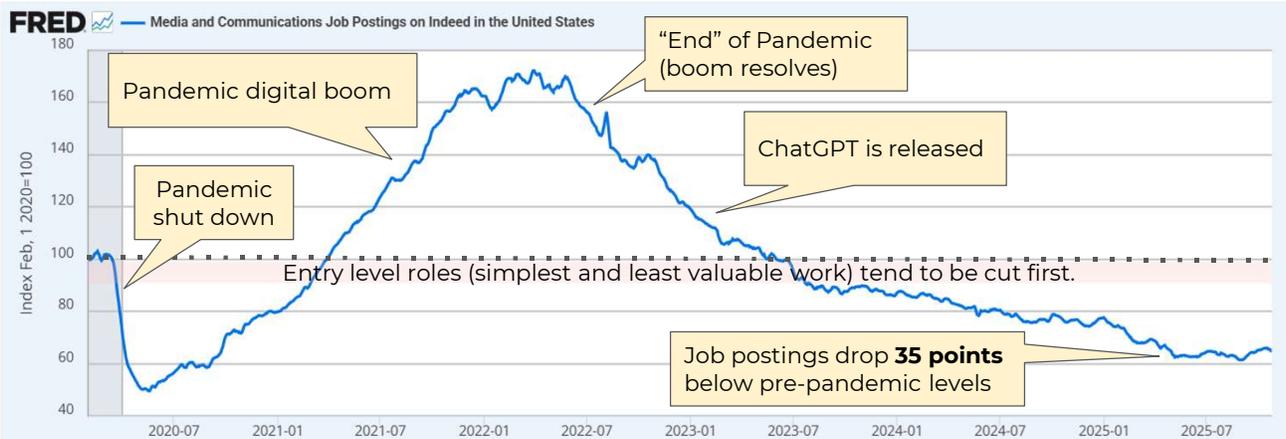
Units:
Index Feb, 1 2020=100,
Seasonally Adjusted

Frequency:
Daily,
7-Day

1Y | 5Y | 10Y | Max

2020-02-01 to 2025-10-24

Edit Graph

Download

FRED — Media and Communications Job Postings on Indeed in the United States

Pandemic digital boom

"End" of Pandemic
(boom resolves)

ChatGPT is released

Pandemic
shut down

Entry level roles (simplest and least valuable work) tend to be cut first.

Job postings drop **35 points**
below pre-pandemic levels

Index Feb, 1 2020=100

Source: Indeed via FRED®
Shaded areas indicate U.S. recessions.

fred.stlouisfed.org   Fullscreen

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"What makes the **Macintosh** transformative isn't that it's a **computer**. It's that it's the first **computer** that lets ordinary people create, learn, and think, without being a programmer."

— Steve Jobs

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"What makes **Generative AI** transformative isn't that it's **AI**. It's that it's the first **AI** that lets ordinary people create, learn, and think, without being a programmer."

— Adapted from Steve Jobs
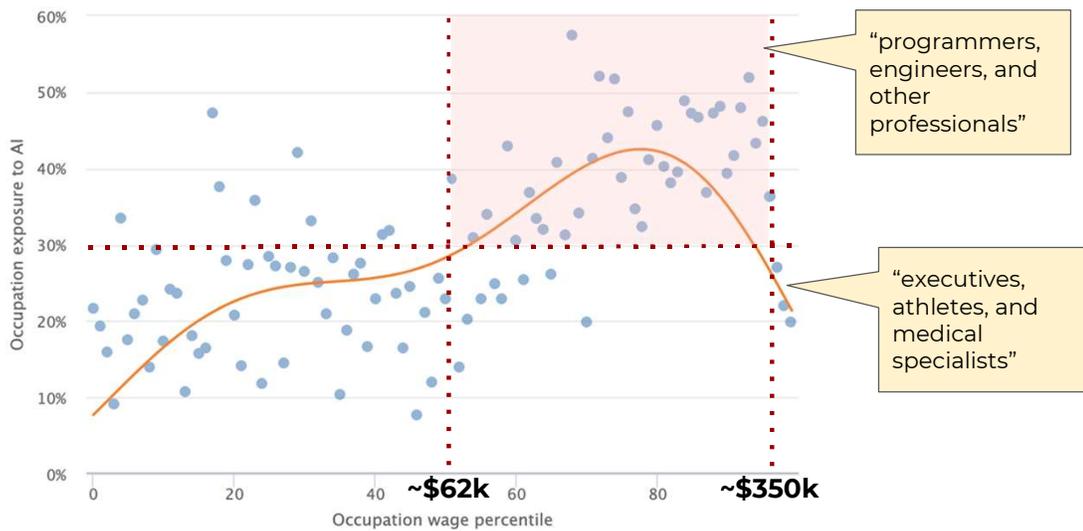
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Slide 11

GenAI Exposure by Occupation

Occupation Group	Exposure to AI Automation (% of tasks)
Office and Administrative Support Occupations	75.5
Business and Financial Operations Occupations	68.4
Computer and Mathematical Occupations	62.6
Sales and Related Occupations	60.1
Management Occupations	49.9
Legal Occupations	47.5
Arts, Design, Entertainment, Sports, and Media Occupations	45.8
Architecture and Engineering Occupations	40.7

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Slide 12

High paying jobs are most exposed to AI automation (except at the top)

"programmers, engineers, and other professionals"

"executives, athletes, and medical specialists"

~$62k   ~$350k

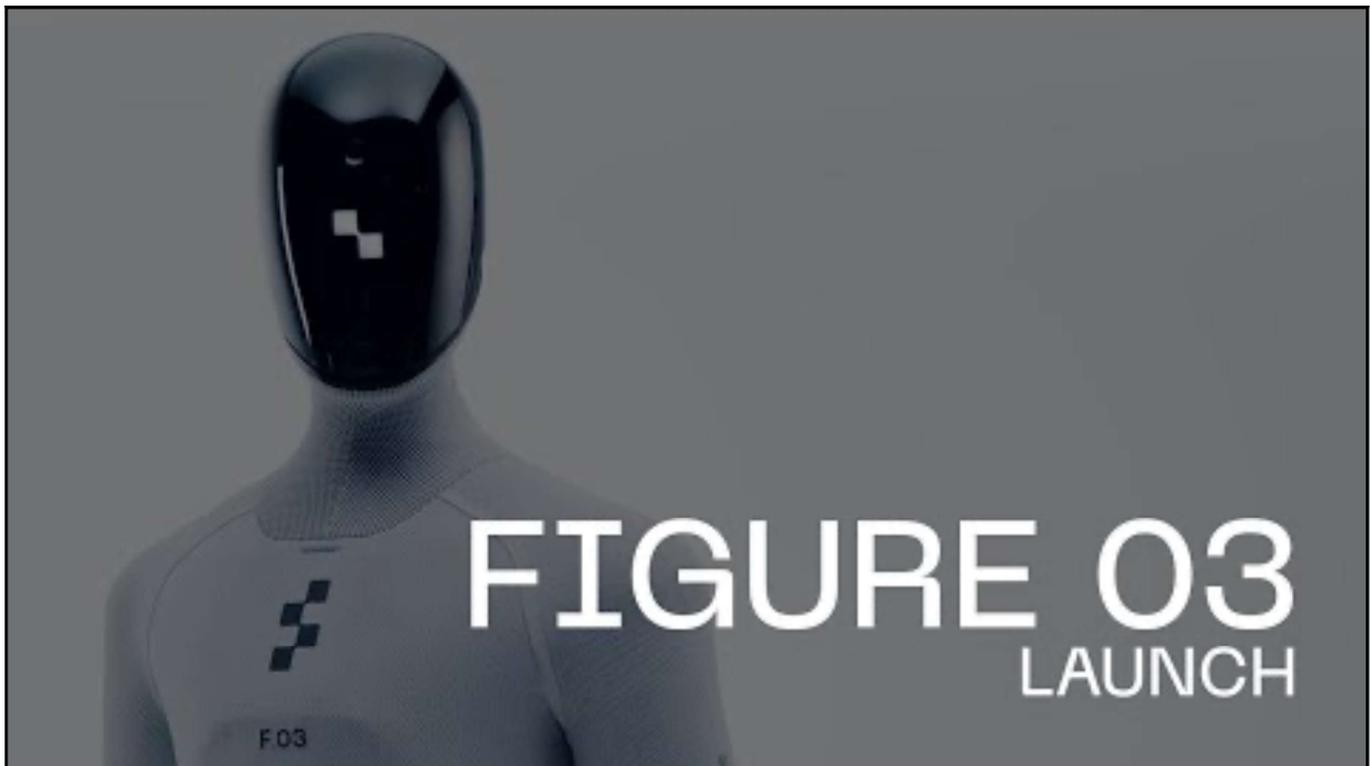UTAH VALLEY UVU UNIVERSITY

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Emerging AI Threats to Entry Level Work

Vibe Coding

Computer Control

Humanoid Robots

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Biggest Dangers for Students:

1. Entry level automation
2. More AI & less brain

Before

After

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"…a whole new set of techniques for critical thinking will need to be developed.

This reinvention will be **painful**…"

– Tricia Bertram Gallant & David A Rettinger
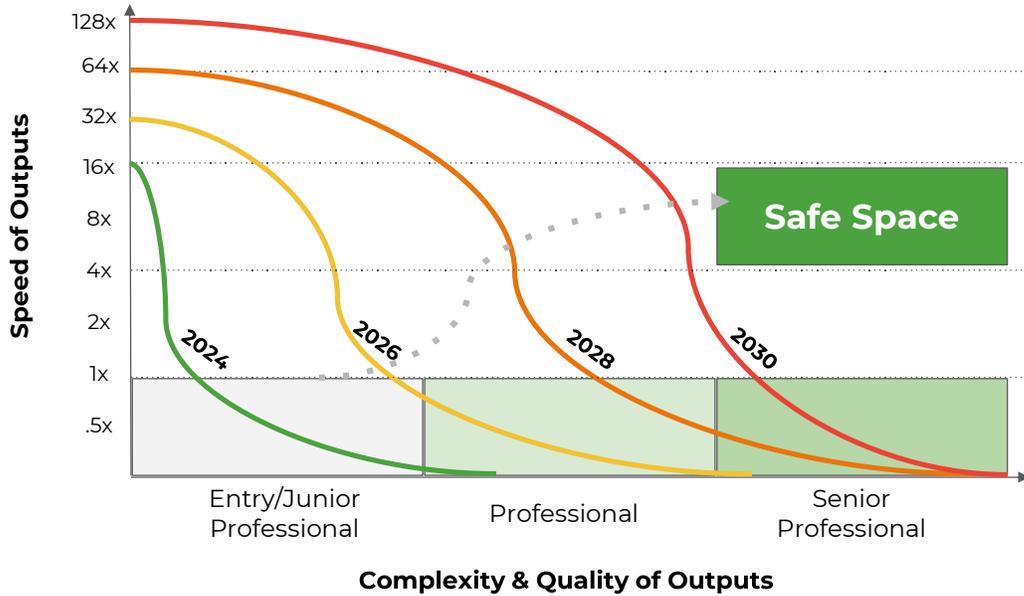(The Opposite of Cheating, pg 192)

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Analysis of 12,000+ job posts

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Augmentation vs Replacement

(False Dichotomy)
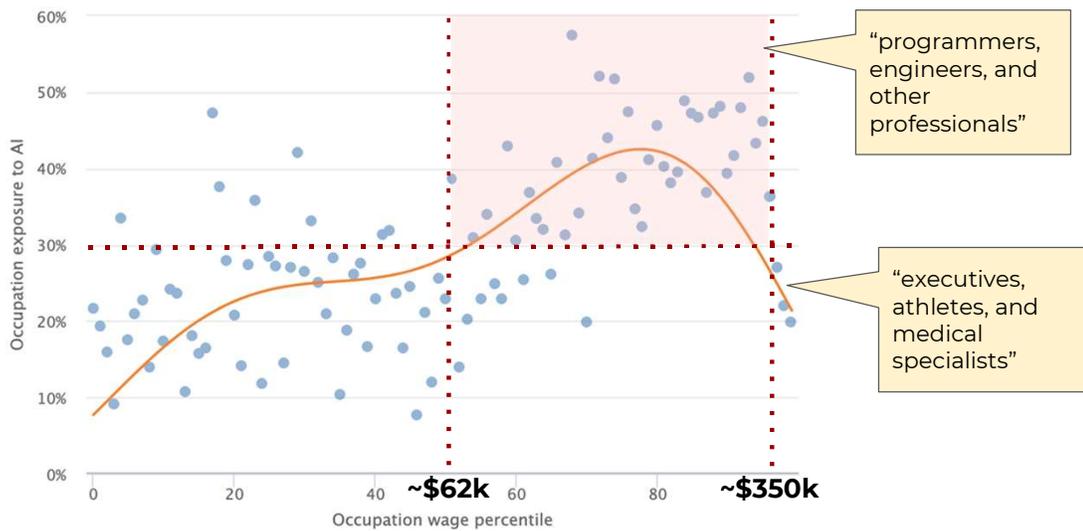
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Concept Graph: A New Target for Education
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High paying jobs are most exposed to AI automation (except at the top)
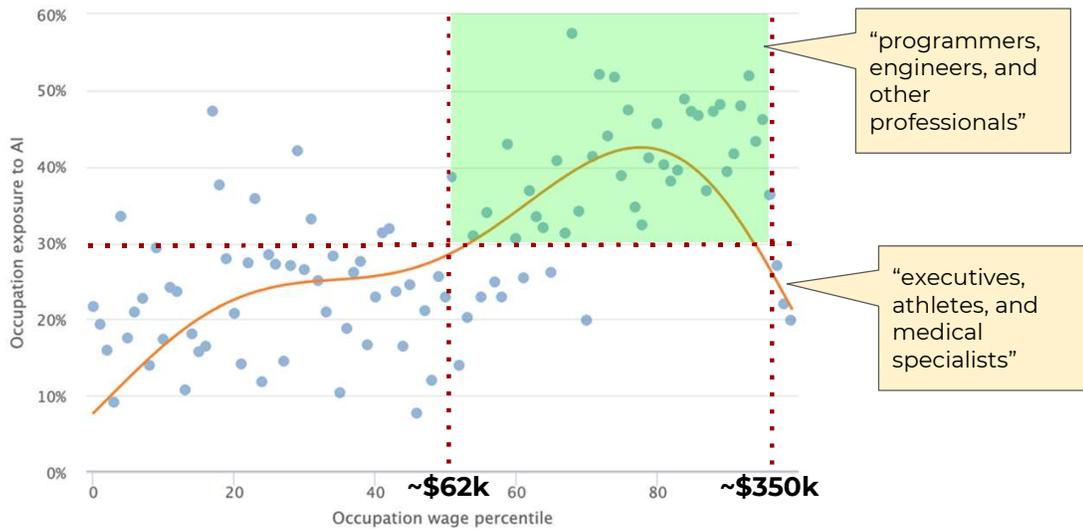
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High paying jobs are most exposed to AI automation (except at the top)

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Emerging AI Threats to Entry Level Work

Vibe Coding

Computer Control

Humanoid Robots

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Tools for Advanced
Emerging AI ~~Threats to Entry Level~~ Work

> **Vibe Coding**

> **Computer Control**

> **Humanoid Robots**

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Biggest Dangers for Students:

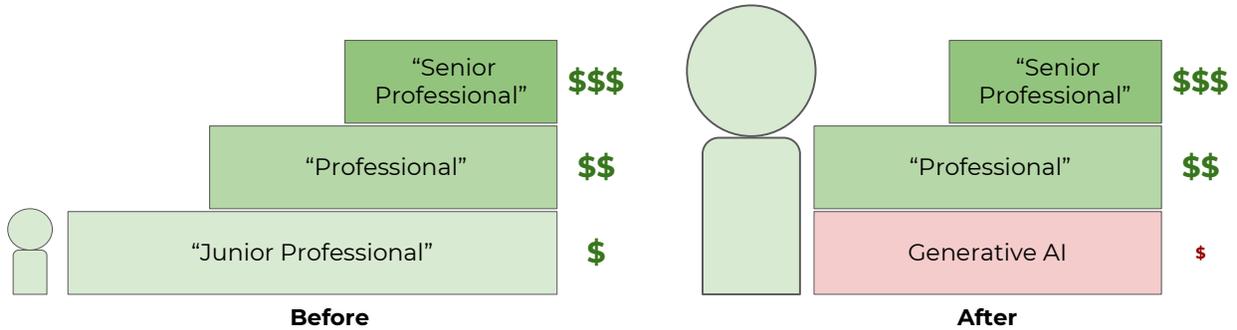1. Entry level automation
2. More AI & less brain

"Senior Professional"	$$$
"Professional"	$$
"Junior Professional"	$
Before	

"Senior Professional"	$$$
"Professional"	$$
Generative AI	$
After	

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Advantages

Biggest ~~Dangers~~ for Students:

1. Entry level automation
2. More AI & less brain

"Senior Professional"	$$$
"Professional"	$$
"Junior Professional"	$

Before

"Senior Professional"	$$$
"Professional"	$$
Generative AI	$

After

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Concept Graph: A New Target for Education
©Tyler Small

Speed of Outputs (y-axis): 128x, 64x, 32x, 16x, 8x, 4x, 2x, 1x, .5x

2024   2026   2028   2030

Safe Space

Entry/Junior Professional   Professional   Senior Professional

Complexity & Quality of Outputs
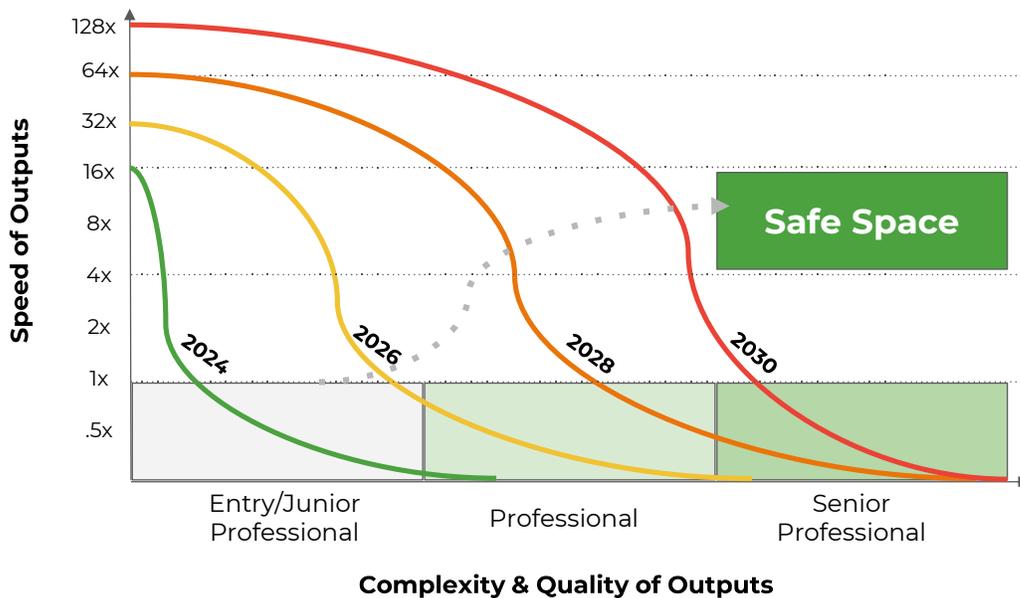
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Making It Practical

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Becoming the Human with AI

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AI Agent: CCR Prep Guide

Name: CCR Prep Guide

Purpose: Personalized conversations with students and parents to prepare for CCRs, think through questions, and consider steps to prepare for personalized career opportunities.

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CCR Prep Guide

Access Now

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Live Demo

school ai

CCR Prep Guide

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Be the human with AI.

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Upcoming Events/Resources:

AI Hackathons
Herculaneum Conference
"AI Stories" on social media
Book: Highly Employable

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Questions?

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Thank you

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