## Future of Higher Education

Southern Association of Colleges with Associate Degrees

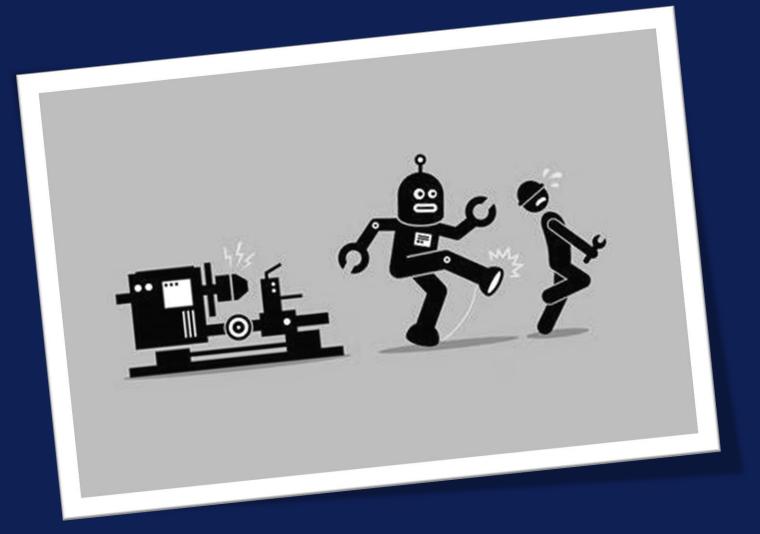
Dr. Hernan Londono

Chief Technology and Innovation Strategist – Higher Education

November 6, 2023

**DE**LLTechnologies

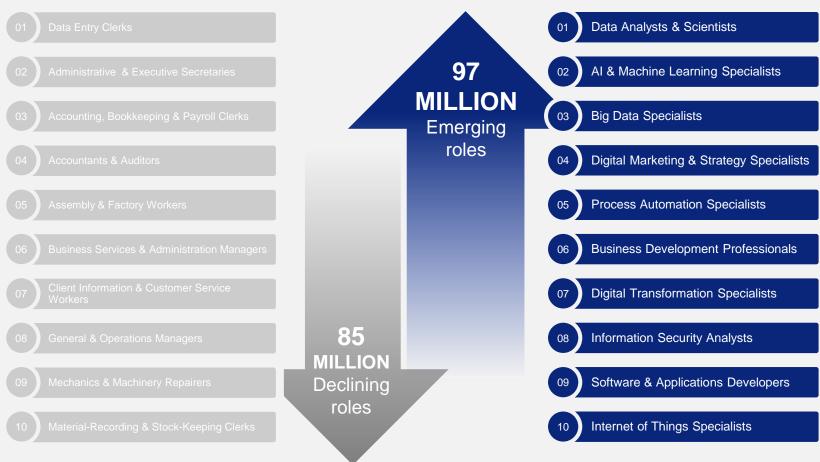




Where are we now...?

Source: World Economic Forum, 2020

### 2025 Jobs Landscape



Jobs requiring some degree of technology skills 77% 10 YEARS 50% **TODAY** 

Source: US Bureau of Labor Statistics

Al 'prompt engineer' jobs can pay up to \$375,000 a year and don't

always require a background in tech

Britney Nguyen May 1, 2023, 11:34 AM EDT



generative Al tools like ChatGPT is creating a hot market for "prompt engineers" who test and improve chatb

# One of those ne

Prompt engineering refers to the proce esigning and

ode masdrudion host

# ChatGPT took their jobs. Now they walk dogs and fix air conditioners.

Technology used to automate dirty and repetitive jobs. Now, artificial intelligence chatbots are coming after high-r.

By Pranshu Verma and Gerrit De Vynck



ELIC PERIL OF THE HATTER OF ENOUGHINGUARS, III. PERIL IOSE THORY OF THE WITHING JOES TO CHOICE ( and profile to discrete die confederation) of the Washington Post) school in the fall to study heating, ventilation and air conditioning systems. (Taylor Glascock for The Washington Post)

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# Is it time for a [digital] transformation?

Google, Apple and 12 other companies that no longer require employees to have a college degree Published Mon, Oct 8 2018-12:51 PM EDT . Updated Mon, Oct 8 2018-12:51 PM EDT





Apple CEO Tim Cook at an event to introduce the new 9.7-inch Apple iPad at Lane Tech College Prep High School on March 27, 2018 in Chicago, Illinois. Scott Olson | Getty Images

Today's tight labor market continues to be a promising landscape for job seekers, with economists even predicting more opportunities for professionals without a degree.

Job-search site Glassdoor compiled a list of top employers who are expanding their talent options by no longer requiring applicants to have a college degree. Companies like Google, Apple and IBM are all in this



This calculator will tell you how nnis calculator will tell you now much you need to retire comfortably, based on age and

The only 3 things you should include in a cover letter (Hint: It's not your qualifications)

Here's how much millennials at every age need to have saved right now to retire at 67

Former Apple CEO: Walmart's health-care services will cause 'a consumer revolution'

After 15 years of research, a psychologist says this 'simple trick' can help millennials retire

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FROM THE WEB







Walmart, the country's largest private employer, to pay 100% of college tuition for employee program Marina Pitofsky, USA TODAY - 7/28/2021

∆ Like □ 3 Comments | →>> 80 RELATED QUOTES

almart, the largest private employer in the country, announced on Tuesday it will pay for college tuition and books at a group of schools for its part-time and full-time associates.



The company issued a news release stating the move means approximately 1.5 million Walmart and Sam's Club employees "can earn college degrees or learn trade skills without the burden of education debt."

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### How many colleges and universities have closed since 2016?

### **Education Dive**

The last two years have been tumultuous ones for the U.S. higher education industry.

Increased regulation and falling enrollment were among several factors contributing to the closure or consolidation of hundreds of colleges and universities around the country.

salesforce

### Higher Education Is NOT The Only Kid on The Block

### Tech Vendor **Platforms**

Microsoft











UDACITY









Learning

Marketplaces











## **Abundant Affordable Learning**

























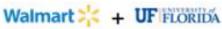






Alibaba Cloud















**HCM/TM Suites** 

**HigherEd** 



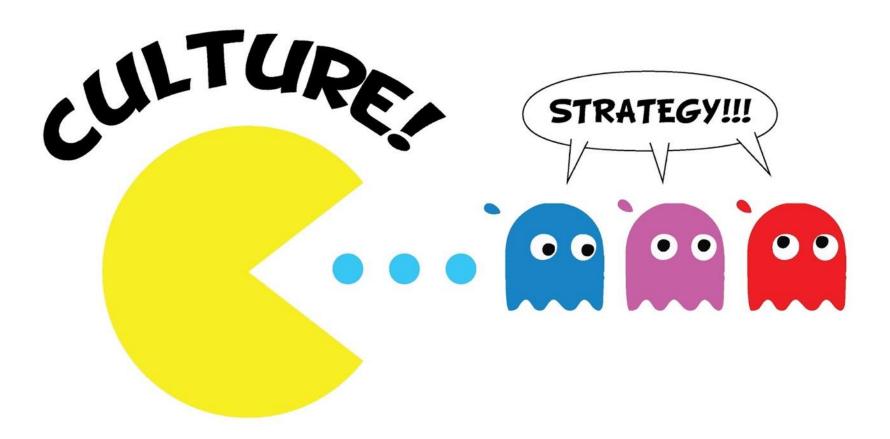
And Beyond...

Source: Gartner: Evaluate Your Value Proposition To Accelerate Digital in Higher Education

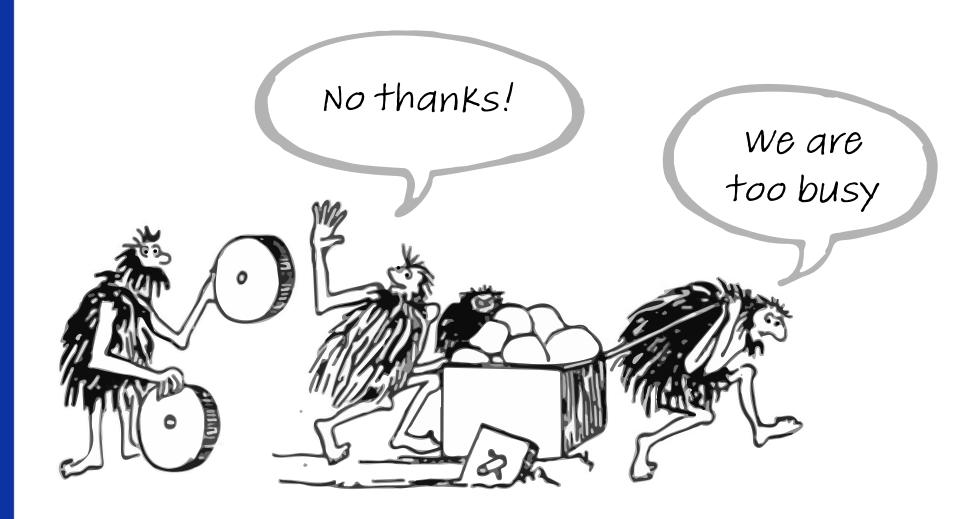


### "Culture eats strategy for breakfast"

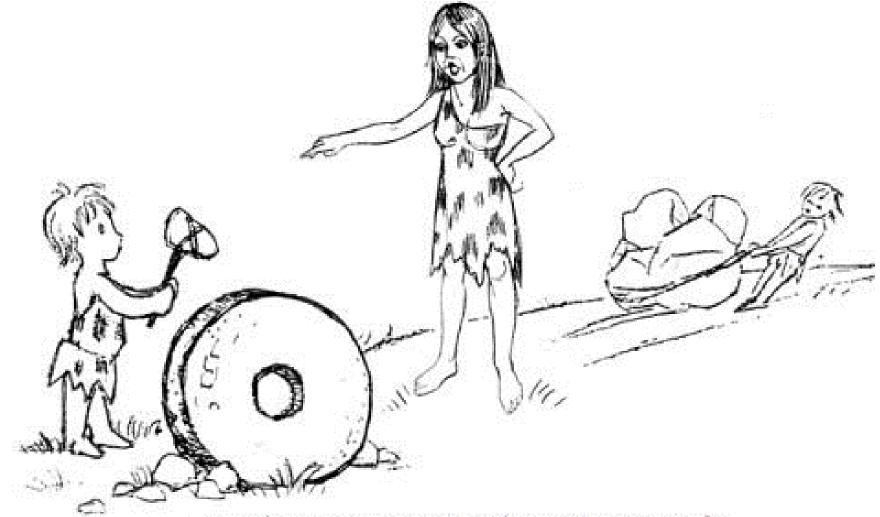
- Drucker



It Is A
Matter Of
Choice...
(Or Maybe
Not)



# The "Dream Killers"



All you've done is chisel all day! Do something useful, like helping your brother drag those rocks up the hill.

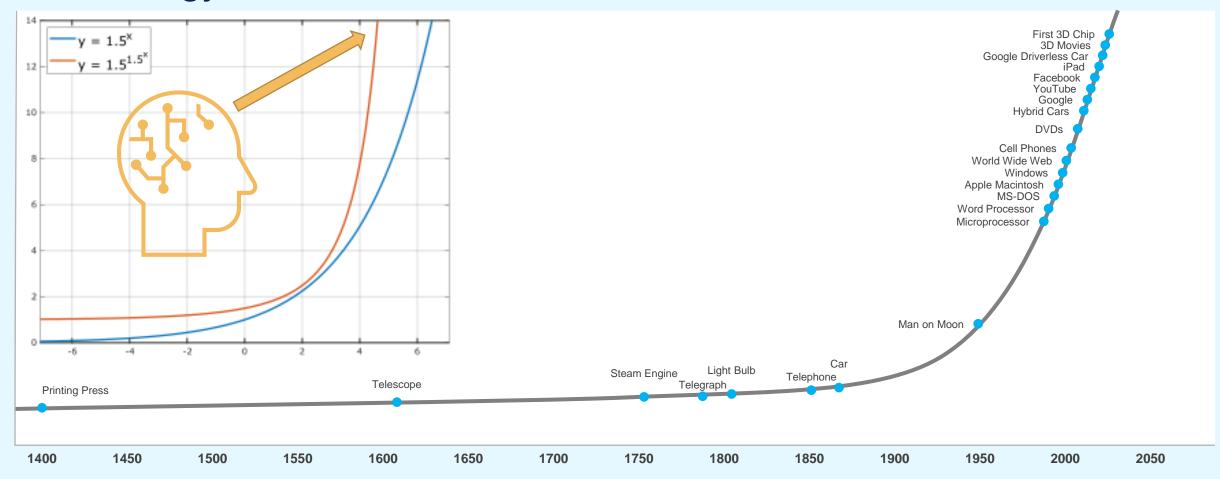
# The Overly Optimistic... (Lazy?)



"What if we don't change at all ...
and something magical just happens?"



### Accelerating Growth in Technology



Source: Technology Matters to Nonprofits: The Impact of Falling Behind the Technology Curve - JMT Consulting

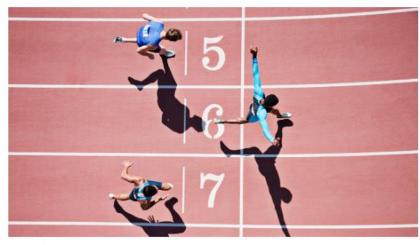
Competitive Strategy | Why Companies That Wait to Adopt AI May Never

**Competitive Strategy** 

# Why Companies That Wait to Adopt Al May Never Catch Up

by Vikram Mahidhar and Thomas H. Davenport

December 06, 2018



Paul Bradbury/Getty Images

Machine Learning & Big Data Blog

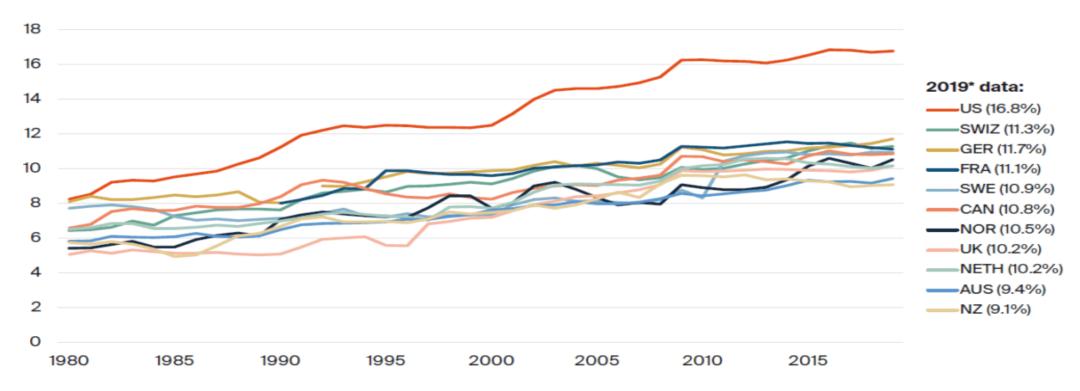
# Why does Gartner predict up to 85% of Al projects will "not deliver" for CIOs?



#### **EXHIBIT3**

### Health Care Spending as a Percentage of GDP, 1980–2019

#### Percent (%) of GDP



Notes: Current expenditures on health. Based on System of Health Accounts methodology, with some differences between country methodologies. GDP refers to gross domestic product.

\* 2019 data are provisional or estimated for Australia, Canada, and New Zealand.

Data: OECD Health Data, July 2021.

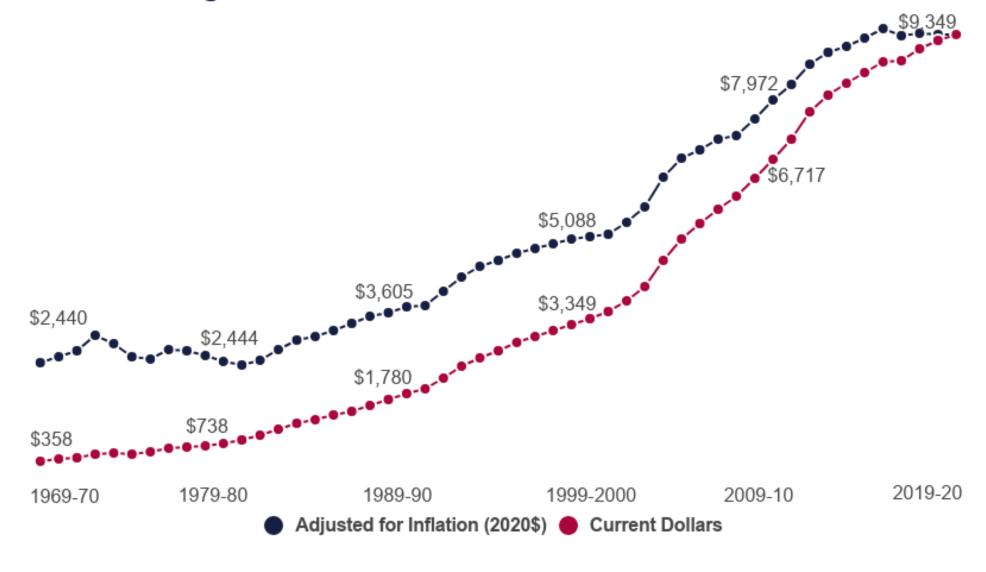
Source: Eric C. Schneider et al., Mirror, Mirror 2021 – Reflecting Poorly: Health Care in the U.S. Compared to Other High-Income Countries (Commonwealth Fund, Aug. 2021).





### Average Annual Tuition & Fees at Public 4-Year Institutions

According to the College Board, the average cost of tuition and fees at a four-year public **university** for in-state students increased by **156%** between 1989 and 2022. The average cost of tuition and fees at a four-year private university for in-state students increased by **300%** during the same period.







### **TOP 10 IT ISSUES, 2022**

The Higher Education We Deserve

The EDUCAUSE 2022 Top 10 IT Issues describe how technology can help create the higher education we deserve through shared vision and sustainability, anchored by a central focus on student success.



### Shared Vision, Shared Strategy

- 2 Evolve or Become Extinct
- The Shrinking World of Higher Education or an Expanded Opportunity?

#### Student Success as Institutional Success

- Digital Faculty for a Digital Future
- Learning from COVID-19 to Build a Better Future
- From Digital Scarcity to Digital Abundance
- Radical Creativity



### The Sustainable Business Model

- 1 Cyber Everywhere! Are We Prepared?
- The Digital versus Brick-and-Mortar Balancing Game
- Weathering the Shift to the Cloud
- O Can We Learn from a Crisis?

Learn more about the EDUCAUSE Top 10 IT Issues at https://www.educause.edu/2022issues

THANKS TO OUR 2022 TOP 10 IT ISSUES SPONSORS









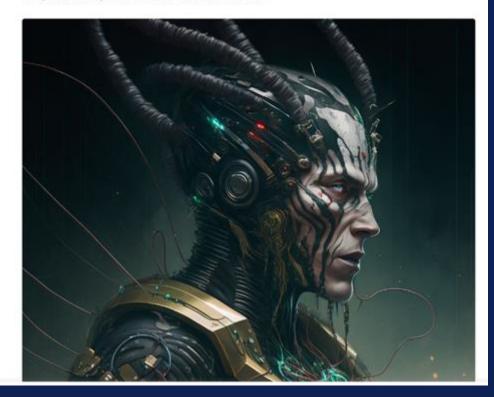
Operating Model	Institutional Leadership	Cybersecurity	<b>Opertational Efficiency</b>	IT Modernization	<b>Talent Management</b>

2017	2018	2019	2020	2021	2022	2023
Cybersecurity	Cybersecurity	Cybersecurity	Cybersecurity	Peak of Pandemic	Cybersecurity	Institutional Leadership
Opertational Efficiency	Opertational Efficiency	Opertational Efficiency	Cybersecurity		Opertational Efficiency	Cybersecurity
Institutional Leadership	Opertational Efficiency	Cybersecurity	Opertational Efficiency		Talent Management	Talent Management
Institutional Leadership	Opertational Efficiency	Opertational Efficiency	IT Modernization		Opertational Efficiency	Opertational Efficiency
Opertational Efficiency	Opertational Efficiency	IT Modernization	Opertational Efficiency		Operating Model	Institutional Leadership
Operating Model	Operating Model	Opertational Efficiency	IT Modernization		Operating Model	Opertational Efficiency
Operating Model	Talent Management	Operating Model	IT Modernization		Operating Model	Opertational Efficiency
IT Modernization	Opertational Efficiency	Opertational Efficiency	Operating Model		IT Modernization	IT Modernization
IT Modernization	IT Modernization	Institutional Leadership	Opertational Efficiency		Operating Model	Opertational Efficiency
Operating Model	Institutional Leadership	Operating Model	Institutional Leadership		Operating Model	IT Modernization

### ChatGPT passes the Turing test

News Report Technology

In 1950, Alan Turing proposed the Turing test as a way to measure a machine's intelligence. The test pits a human against a machine in a conversation. If the machine can fool the human into thinking it is also human, then it is said to have passed the Test. In December 2022, ChatGPT, an artificial intelligence chatbot, became the second chatbot to pass the Turing Test, according to Max Woolf, a data scientist at BuzzFeed.



### **Turing Test**

- A Turing Test is a test of a machine's ability to exhibit intelligent behavior that is indistinguishable from that of a human.
- The test was proposed by Alan Turing in 1950 as a way to evaluate a machine's ability to display human-like intelligence.
- The test involves a human evaluator who interacts with a machine and a human via a text-based interface, without knowing which is which.
- The machine passes the test if the evaluator cannot consistently distinguish the machine's responses from those of the human.

# Questions

