

人工智慧對學術界之衝擊

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數位發展部 部長

2026/01/23

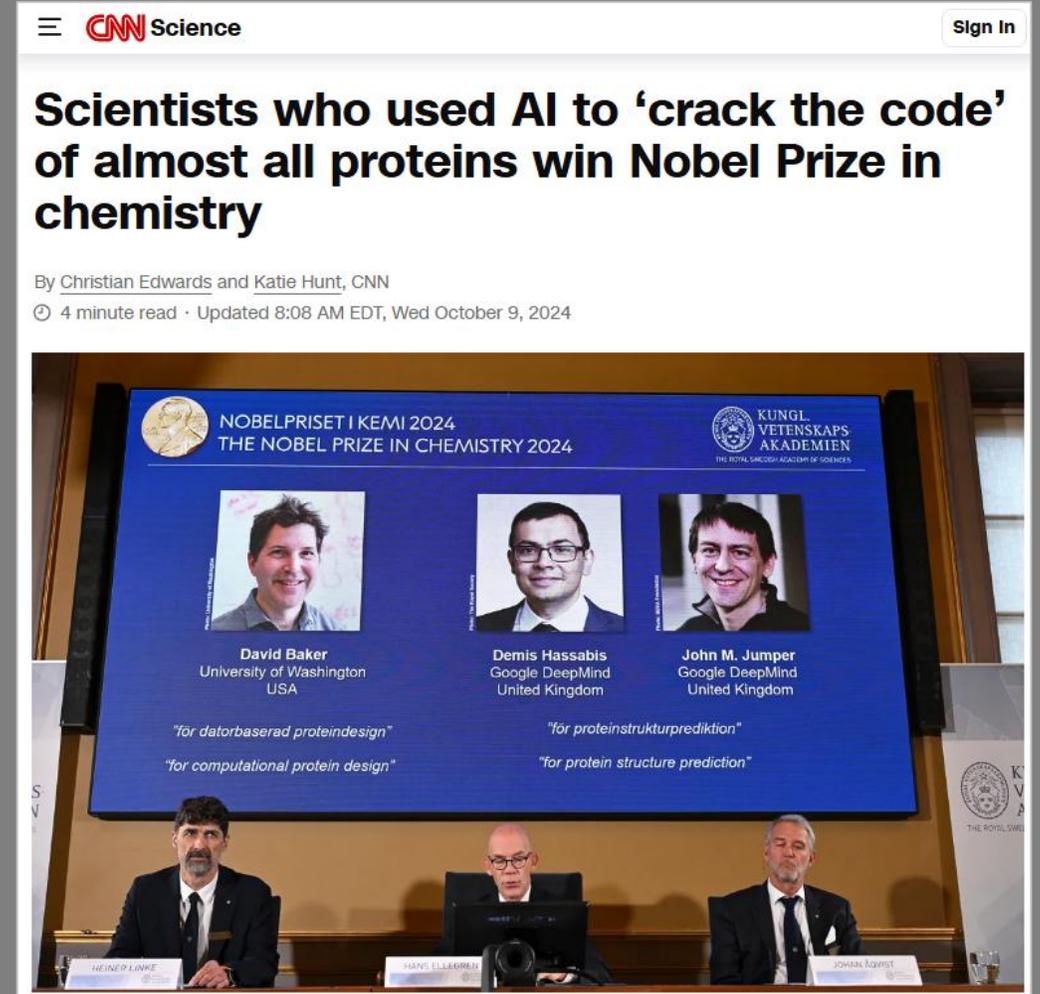
大綱

1. 沒有人能阻擋AI 的發展
2. AI 對人類是個威脅
3. AI 對全球就業市場會有很大的衝擊

沒有人能阻擋

AI 的發展

1. AI 得了諾貝爾獎



2. AI 對人類是個威脅

AI is a huge threat to humanity

When you see something that is technically sweet, you go ahead and do it.



Geoffrey Hinton

BBC News

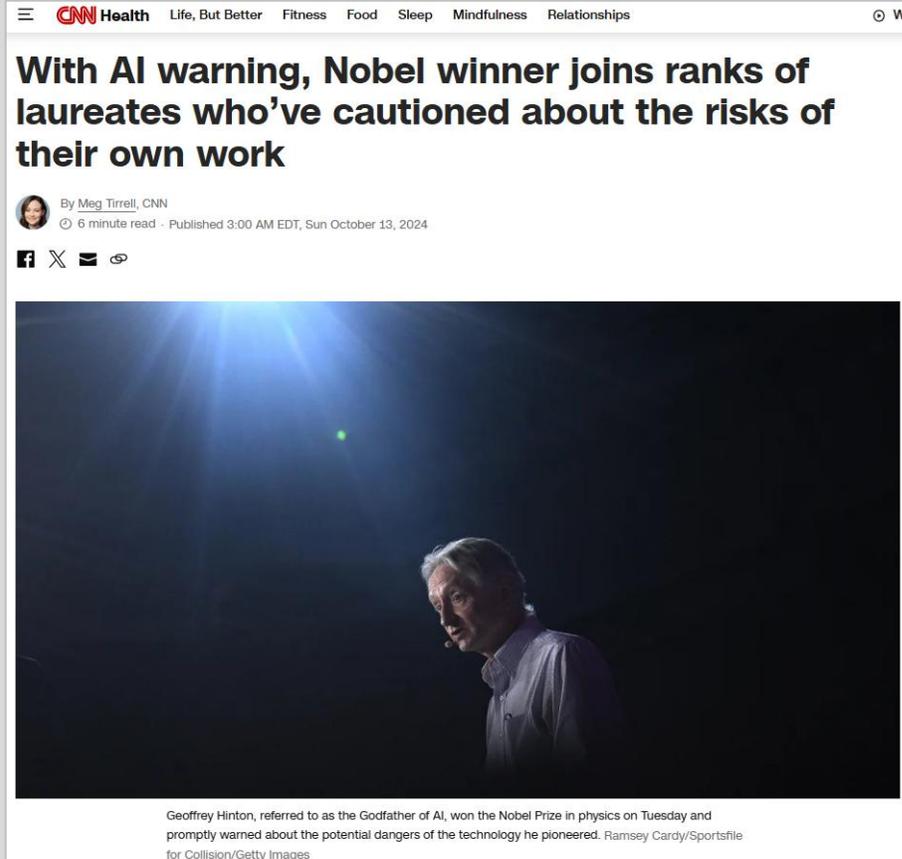


J. Robert Oppenheimer

Bettmann Archive / Getty Images

3. 沒有人擋得住 AI 的發展

Nobody can stop the development of AI



Geoffrey Hinton



Sam Altman

Geoffrey Hinton

4. 誰控制了AI，誰就可以控制未來的世界

The one who controls AI will control the future

ASIA TIMES Menu

OPINION

US-China: 'Cold War 2' or something worse

As fentanyl shows, the Chinese Communist Party doesn't distinguish between "cold" war or any other type of war

By GRANT NEWSHAM
FEBRUARY 11, 2025



TRTWORLD

WORLD TÜRKİYE VIDEO OPINION CLIMATE BUSINESS SCIENCE & TECH ARTS & CULTURE

OPINION 3 MONTHS AGO

As Trump 2.0 targets China, 2025 could spiral into a new Cold War

As the US falls behind in the growing trade war, President-elect Trump has thrown down the gauntlet at the Asian giant. But can there be a winner in this war?

NADIM SIRAJ



5. 我們用什麼資料訓練AI， AI 就相信什麼

AI believes in what it is trained with



Chinese Students, 1960s



Taiwanese Students, 2014



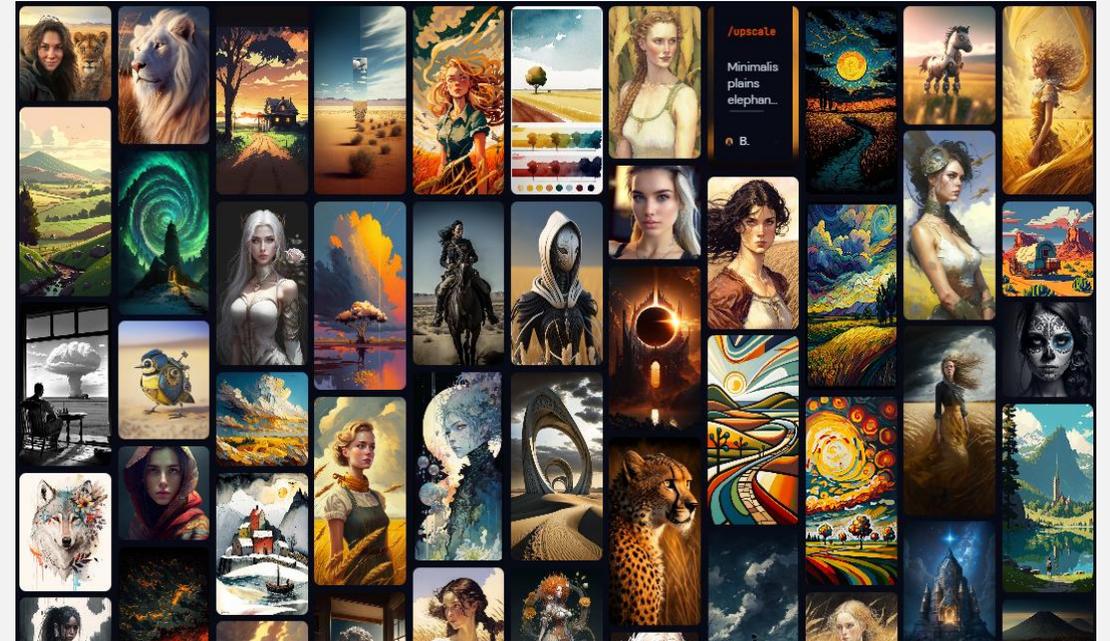
AI Students, 2040?

6. 美國 + 台灣 + 歐盟 = 民主 AI

USA + Taiwan + EU = Democratic AI?



IC Made in Taiwan

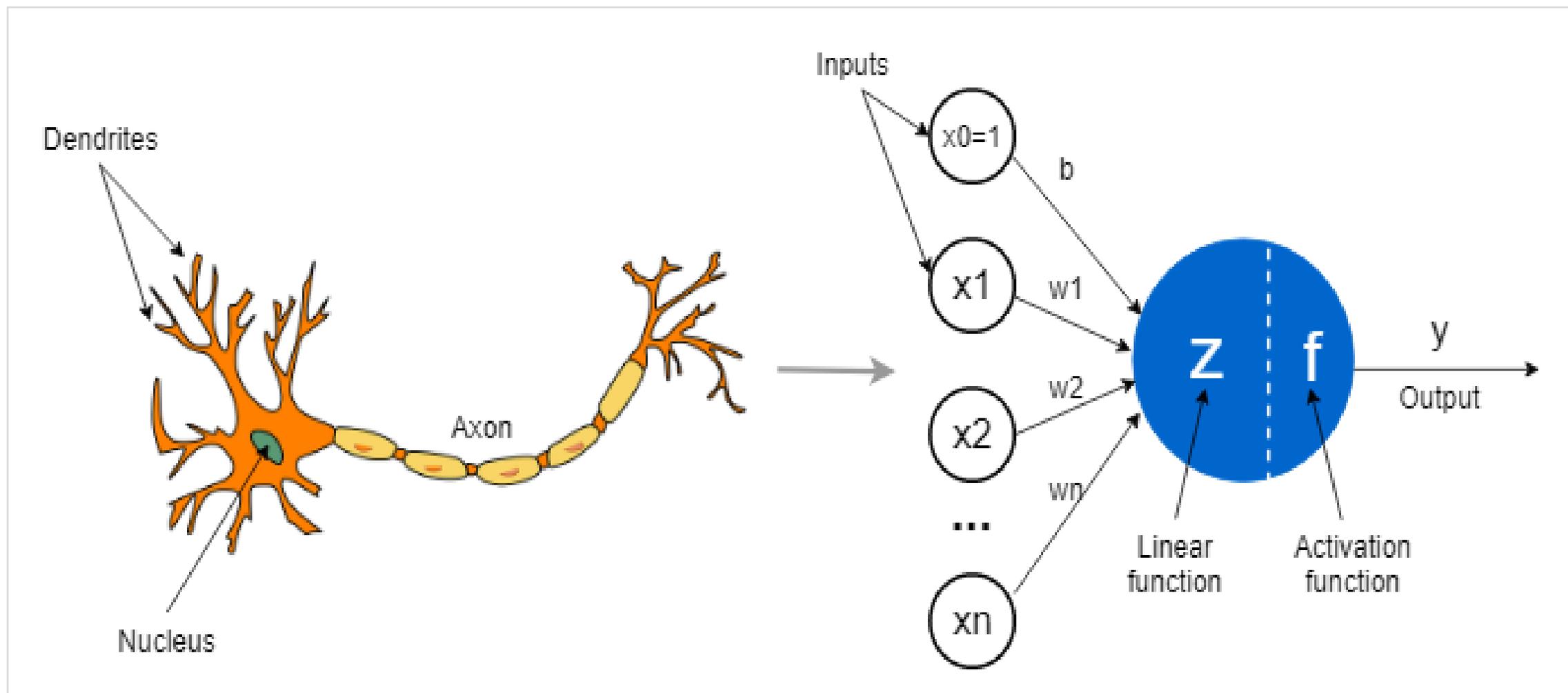


Software Made in USA

AI

對人類的威脅

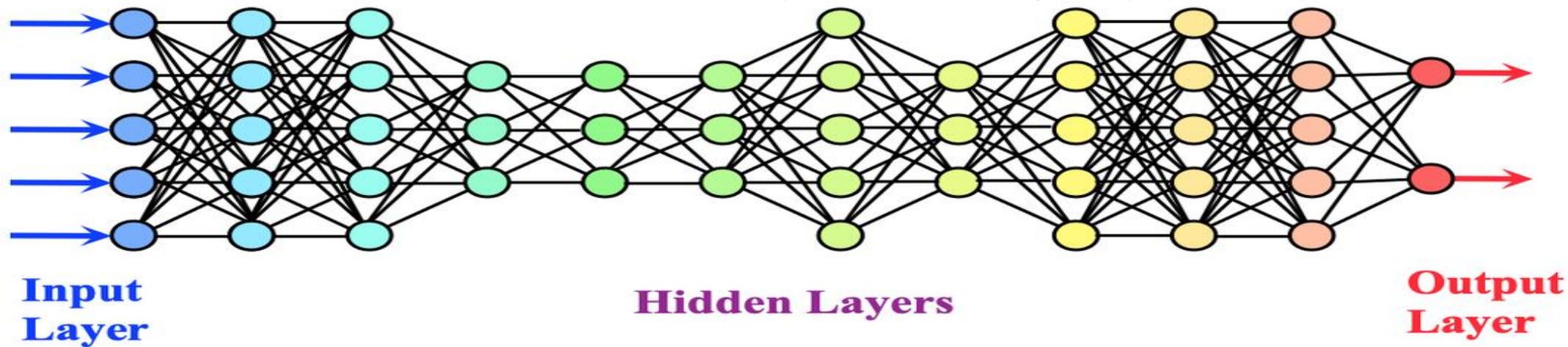
What is AI?



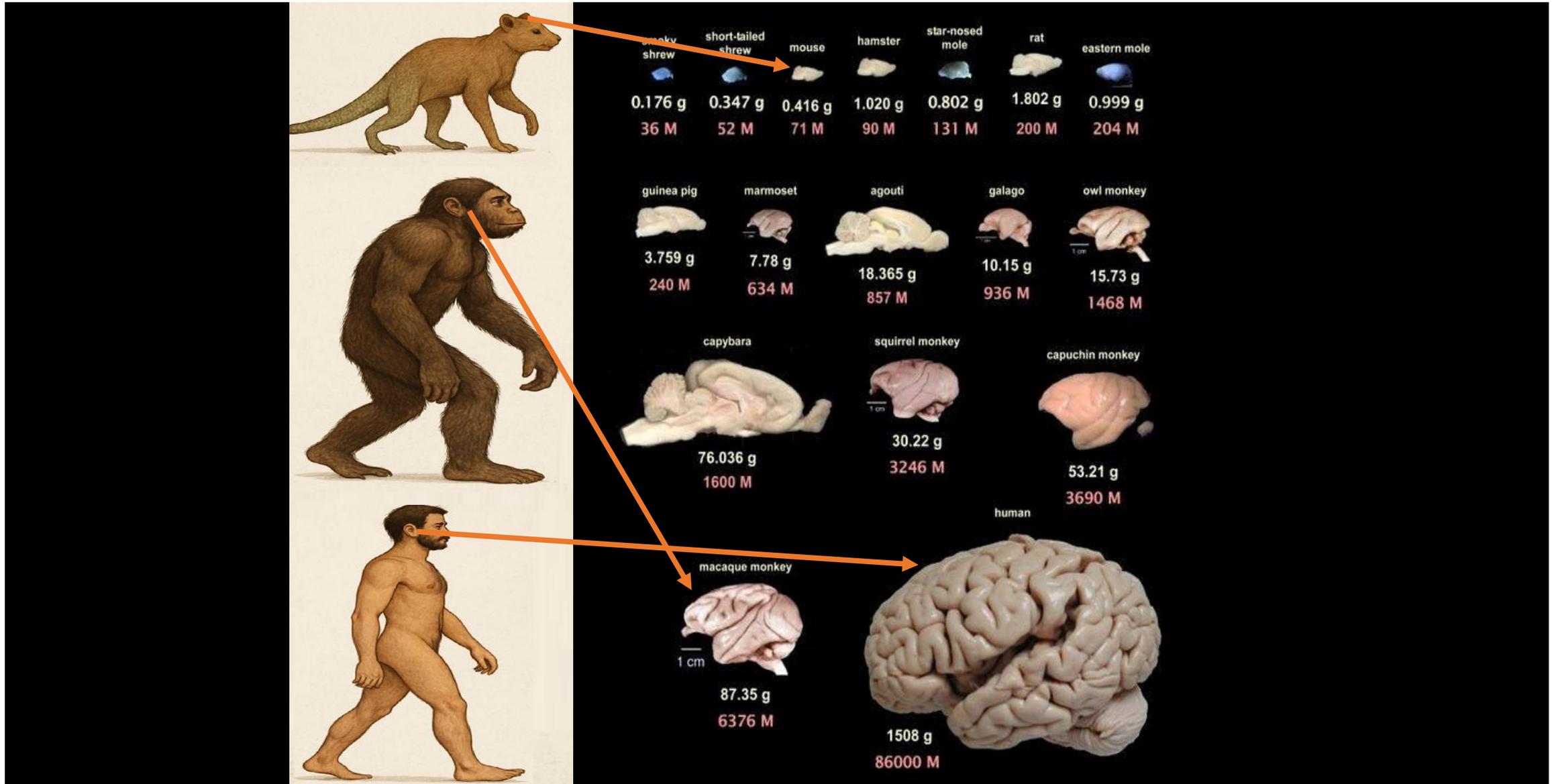
What is AI?



columns of neurons in the cerebral cortex drawn by 1906 Nobel laureate Santiago Ramón y Cajal



Larger Brain = Smarter Animal



破解蛋白質分子的 3-D 結構

Decoding 3-D Structure of Protein Molecules

CNN Science Sign In

Scientists who used AI to 'crack the code' of almost all proteins win Nobel Prize in chemistry

By Christian Edwards and Katie Hunt, CNN
4 minute read · Updated 8:08 AM EDT, Wed October 9, 2024



NOBELPRISET I KEMI 2024
THE NOBEL PRIZE IN CHEMISTRY 2024

KUNGL. VETENSKAPS AKADEMIEN
THE ROYAL SWEDISH ACADEMY OF SCIENCES

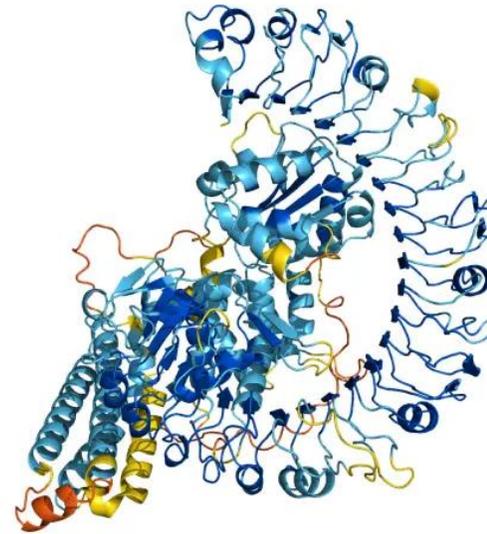
David Baker
University of Washington
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"for computational protein design"

Demis Hassabis
Google DeepMind
United Kingdom
"for proteinstrukturprediktion"
"for protein structure prediction"

John M. Jumper
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HEINER LINKE
JANIS F. LIEBMAN
JOHAN LQVIST

- *AlphaFold* 之前
 - 破解一個蛋白質的3D結構 = 一篇博士論文
- *AlphaFold* 之後
 - 一年內破解 200,000,000 個蛋白質3D結構

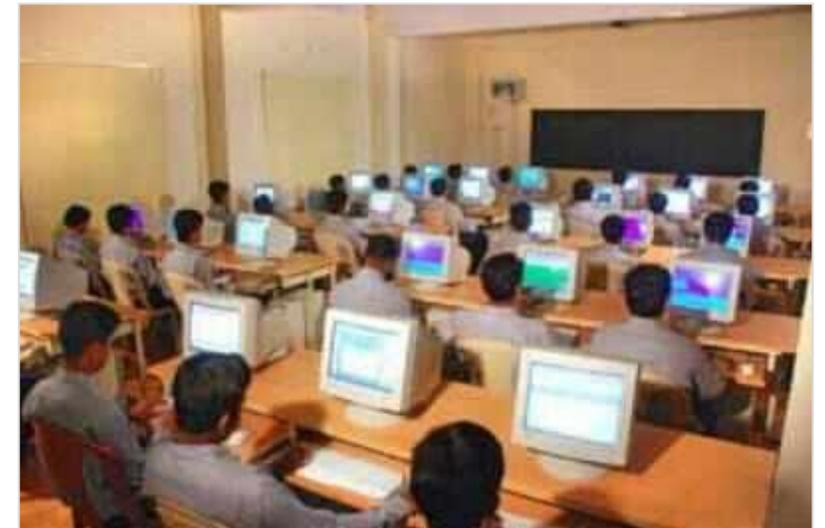
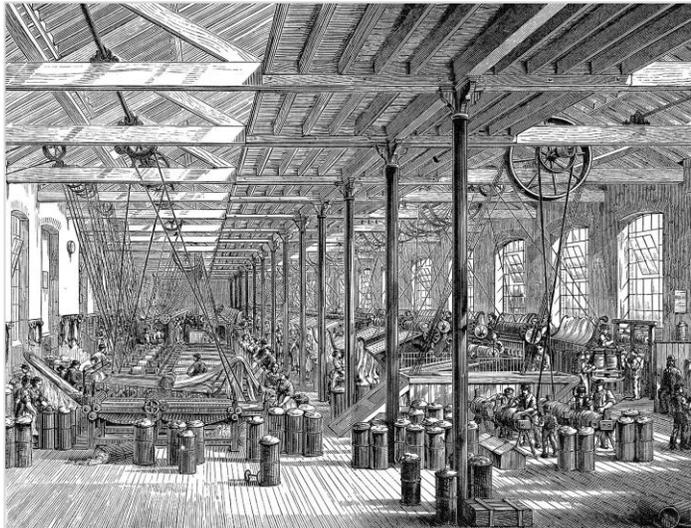


AI

對就業市場的衝擊

過往科技革命 對就業市場的衝擊

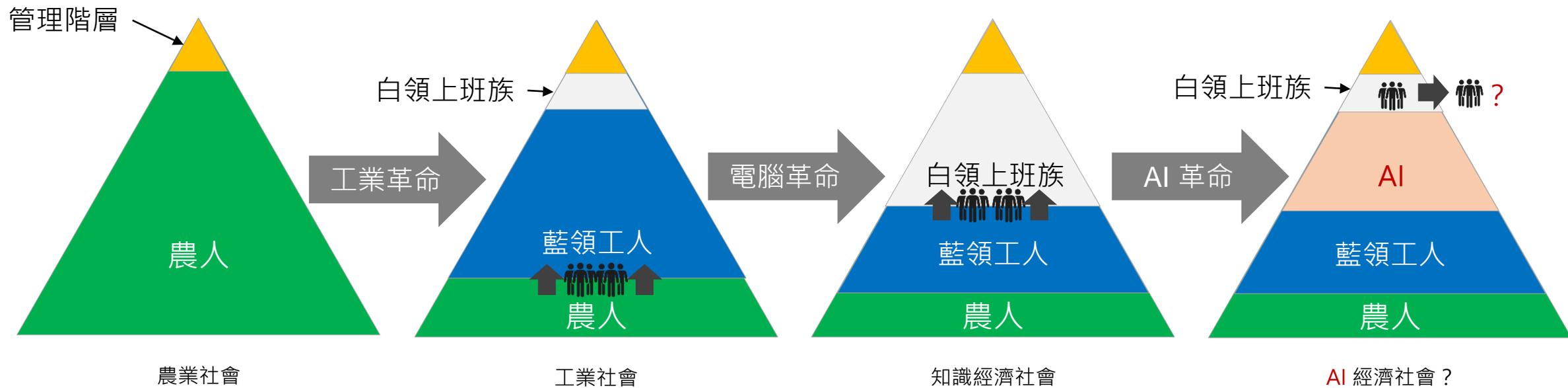
1. 離電腦越近越安全
2. 越年輕越安全
3. 離教室越近越安全



AI革命 對就業市場的衝擊

1. 離電腦越近越危險？
2. 越年輕越危險？
3. 離教室越近越危險？

AI 革命取代的是白領上班族



結論

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3. AI對全球就業市場會有很大的衝擊