

Vocational English IV
(Mesleki Yabancı Dil IV)
Week 5

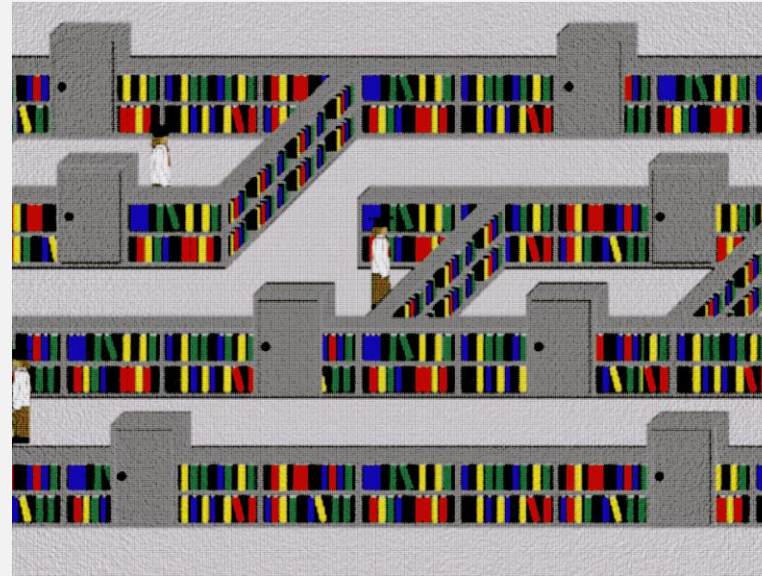


Engineering Faculty
Computer Engineering

Prepared by: Dr Ercan Ezin

INTRODUCTION

AI WILL UPEND A BASIC ASSUMPTION ABOUT HOW COMPANIES ARE ORGANIZED



- The economy is built on the idea that expertise is scarce and expensive. AI is about to make it abundant and practically free.



AI CHANGES THE COST OF INTELLIGENCE

- "For most of history, hiring a dozen PhDs meant a massive budget and months of lead time. Today, a few keystrokes in a chatbot summon that brainpower in seconds."

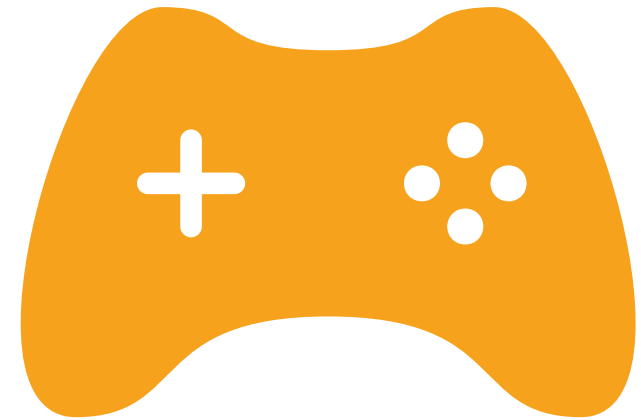


HISTORICAL CONTEXT OF INTELLIGENCE COSTS

- "When the printing press emerged in the mid-15th century, it slashed the expense of disseminating written material...Once this bottleneck disappeared, Europe underwent sweeping transformations: The Protestant Reformation reshaped religion, literacy rates soared...and scientific inquiry flourished through printed treatises."

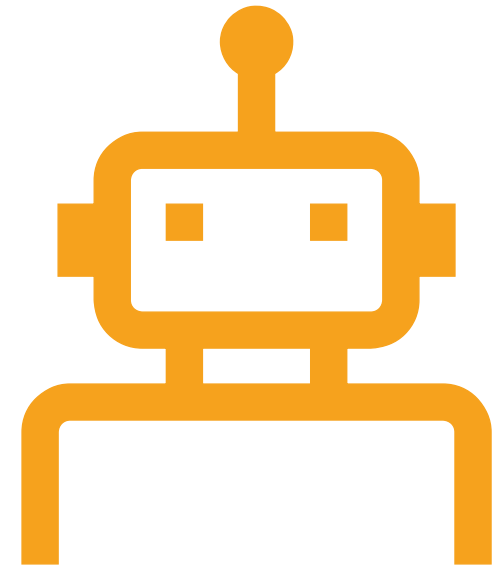
MY OWN CHATGPT EPIPHANY

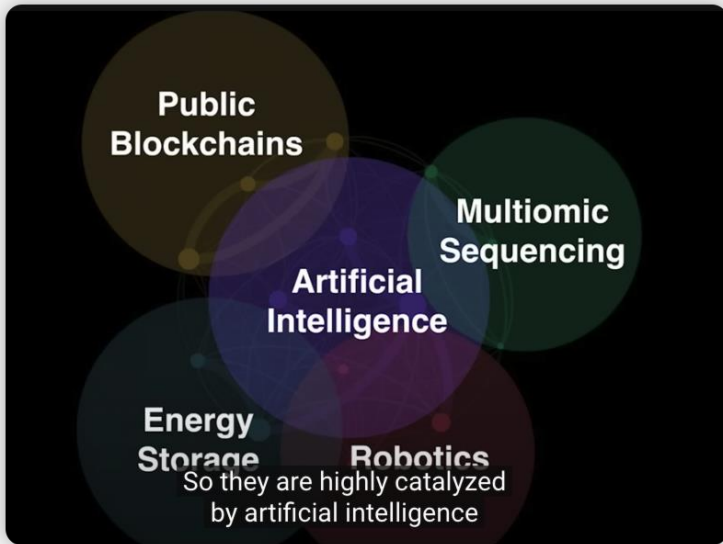
- "In just two or three hours — using a very basic version of ChatGPT — we had a rough but remarkably playable game... It showed me firsthand how an AI collaborator can compress weeks of R&D into hours. Imagine the implications for product development, market analysis or even corporate strategy."



THE COGNITIVE PRODUCTION LINE

- "Just as Henry Ford's assembly line allowed for rapid iteration and improvement of car-manufacturing processes, AI enables constant refinement and enhancement of ideas and solutions. Companies can fail faster, learn quicker and pivot more effectively."





LISTENING

- https://www.youtube.com/watch?v=rQEh7d-qa38&ab_channel=TED

Why AI Will Spark Exponential Economic Growth Cathie Wood | TED

There will be quiz after the Listening Activity!

PRESENTATION TIME!

Overall 20%

5% Introduction of self and the topic

10% Presentation content(English is favoured)

5% Presentation skills and using English

You have 5 Minutes, make it count!



WORDS OF THE WEEK

- 1. Ubiquitous:** Present everywhere; widely and commonly encountered, especially in technology.
- 2. Analogical:** Relating to reasoning based on analogies; identifying similarities between different concepts.
- 3. Decomposing:** Breaking down a complex problem or system into smaller, manageable components.
- 4. Parameters:** Variables or measurable factors defining how a system operates, especially in AI and machine learning models.
- 5. Stochastic:** Randomly determined or probabilistic, often used in the context of AI algorithms and models.
- 6. Reasoning:** The process of logical thinking and problem-solving performed by humans or AI systems.
- 7. Autonomous:** Capable of functioning independently without human intervention, often referring to AI or robots.
- 8. Iteration:** Repeated execution of a sequence of operations to approach a desired result or solution.
- 9. Cognitive:** Related to mental processes such as perception, memory, judgment, reasoning, and problem-solving.
- 10. Democratized:** Made accessible to everyone; removing barriers so knowledge or tools can be used by the general population.

- 11. Automation:** Using technology to perform tasks with minimal human input or oversight.
- 12. Epiphany:** A sudden, powerful realization or insight, often related to understanding a complex concept or technology.
- 13. Regurgitating:** Repeating information exactly as previously learned or received without deeper understanding.
- 14. Memorization:** The process of committing something precisely to memory, often contrasted with deeper conceptual understanding.
- 15. Refinement:** Improvement of a system or method by making incremental adjustments and enhancements.
- 16. Validation:** Checking or confirming that a system, model, or solution accurately meets specifications or requirements.
- 17. Backtracking:** Returning to previous steps in problem-solving or algorithm execution to correct errors or optimize results.
- 18. Superficial:** Concerned only with obvious aspects; lacking depth, often describing insufficient or shallow analysis by a system.
- 19. Constraint:** A limitation or restriction in a computational system, problem-solving environment, or resource availability.
- 20. Implementation:** The process of putting a decision, design, or plan into effect, particularly involving software or technological solutions.

NEXT WEEK ARTICLE

<https://www.ibm.com/think/topics/quantum-computing>

Authors



Josh Schneider

Senior Writer, IBM Blog



Ian Smalley

Senior Editorial Strategist

What is quantum computing?

Quantum computing is an emergent field of cutting-edge computer science harnessing the unique qualities of quantum mechanics to solve problems beyond the ability of even the most powerful classical computers.

Ep. 45 – Quantum leap,
Model Context Protocol,
CoreWeave IPO, and
Sesame AI voice companion



NEXT WEEK LISTENING

- <https://www.ibm.com/think/podcasts/mixture-of-experts/quantum-leap-model-context-protocol-coreweave-ipo-ai-voice-companion>

Episode 45: Quantum leap,
Model Context Protocol,
CoreWeave IPO, and AI
voice companion **[first 10
minutes only]**



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