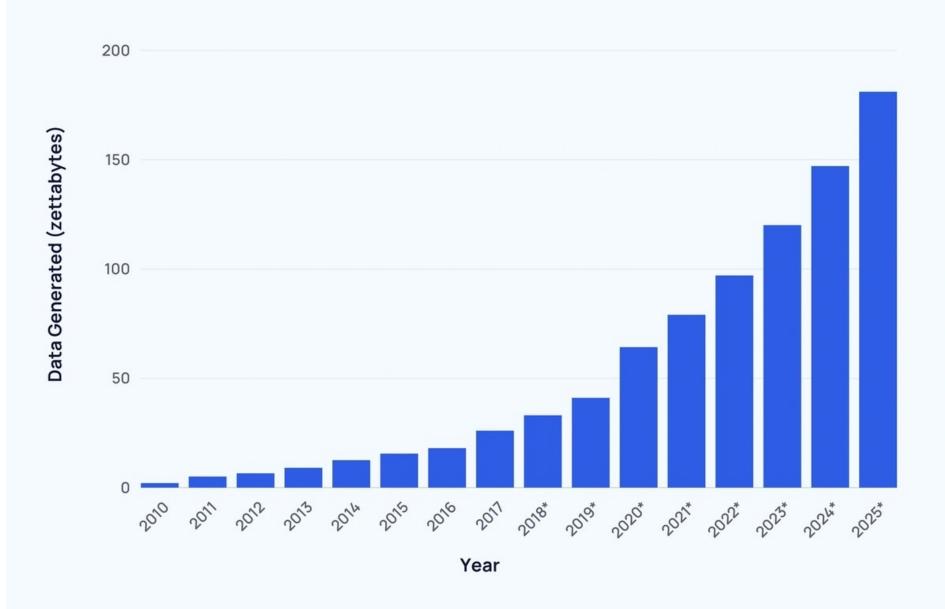
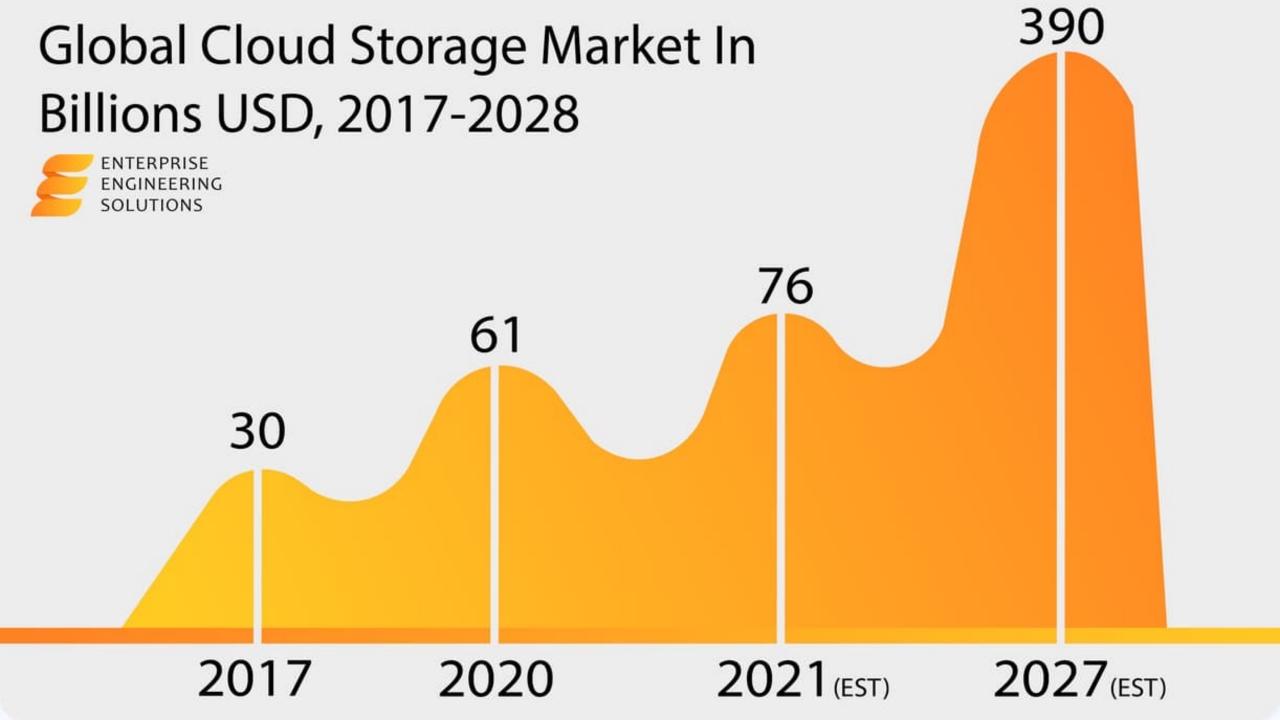


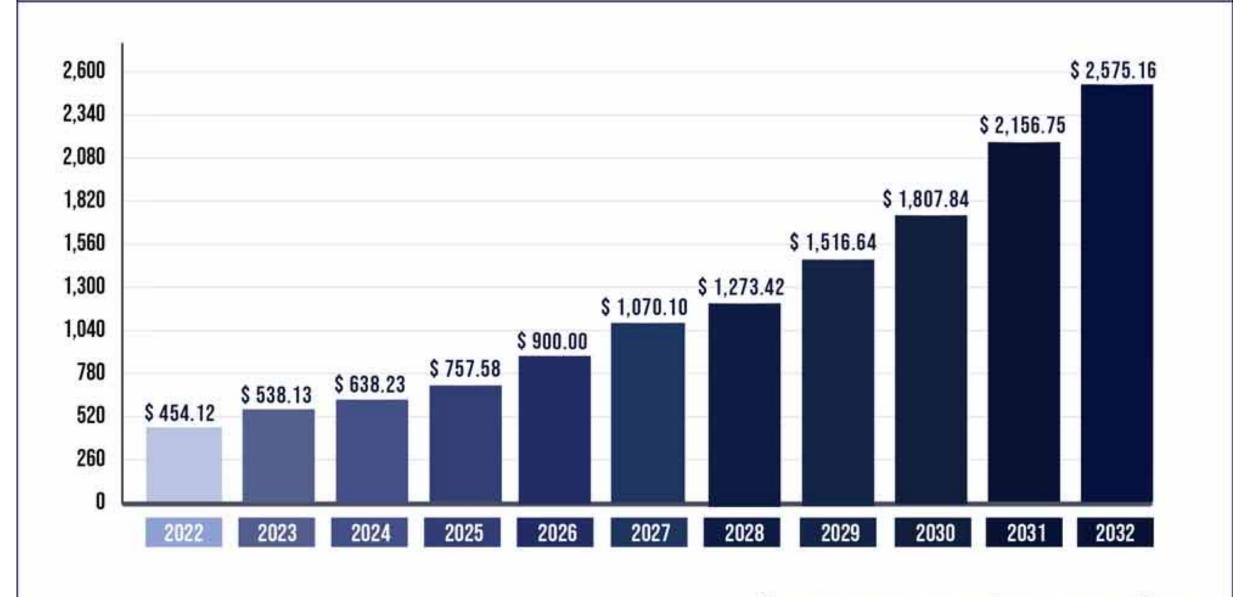
### **Global Data Generated Annually**





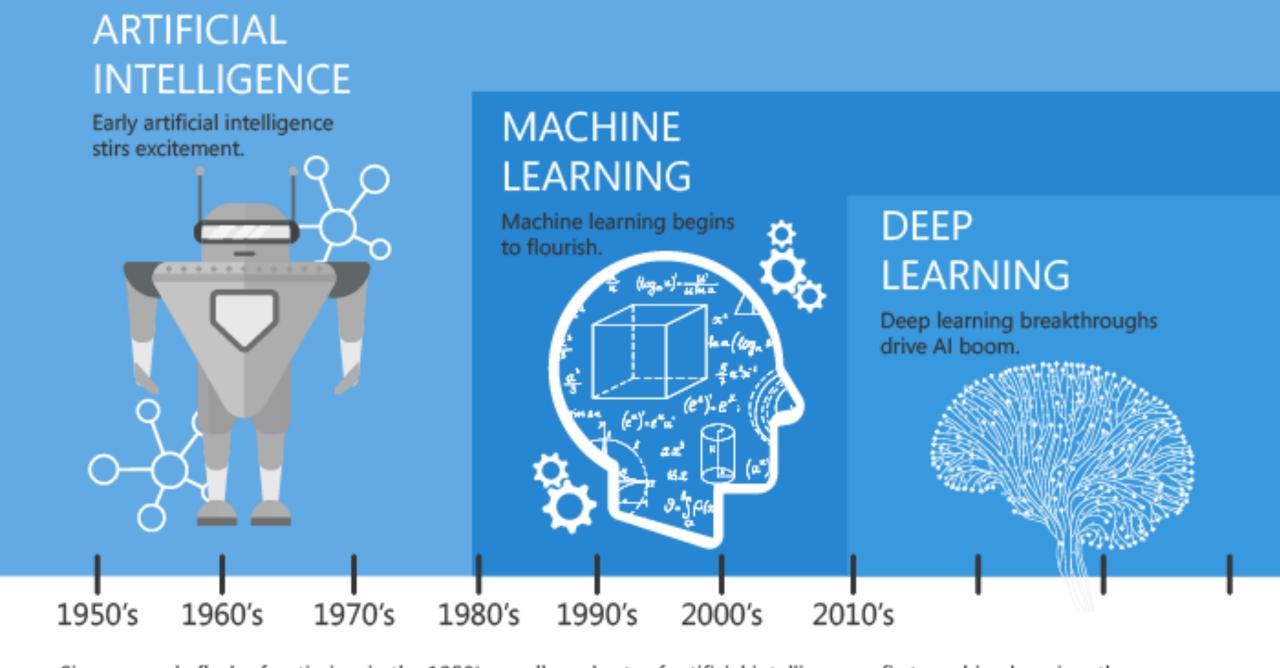


### ARTIFICIAL INTELLIGENCE (AI) MARKET SIZE, 2022 TO 2032 (USD BILLION)



Source: www.precedenceresearch.com

# TRADITIONALAI



Since an early flush of optimism in the 1950's, smaller subsets of artificial intelligence - first machine learning, then deep learning, a subset of machine learning - have created ever larger disruptions.

### **ARTIFICIAL INTELLIGENCE**

Programs with the ability to learn and reason like humans

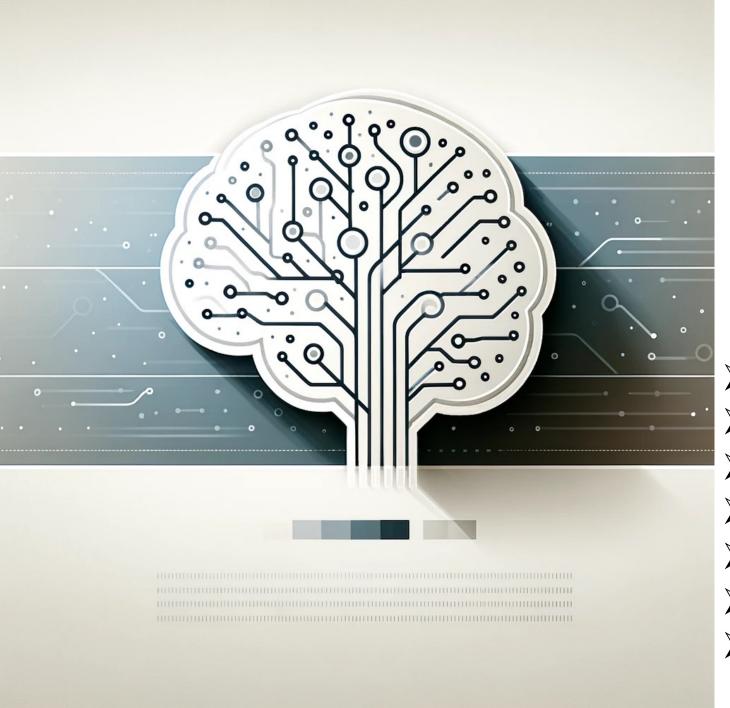
### **MACHINE LEARNING**

Algorithms with the ability to learn without being explicitly programmed

### **DEEP LEARNING**

Subset of machine learning in which artificial neural networks adapt and learn from vast amounts of data





Large language models (LLMs) are machine learning models that can comprehend and generate human language text. They work by analyzing massive data sets of language.

- > Text generation
- > Translation
- Content summary
- Rewriting content
- > Classification and categorization
- > Sentiment analysis
- Conversational AI and chatbots

GPT (Generative Pre-trained Transformer) is a type of LLM (Large Language Model) that can perform various natural language tasks.





# Yuval Noah Harari argues that AI has hacked the operating system of human civilisation

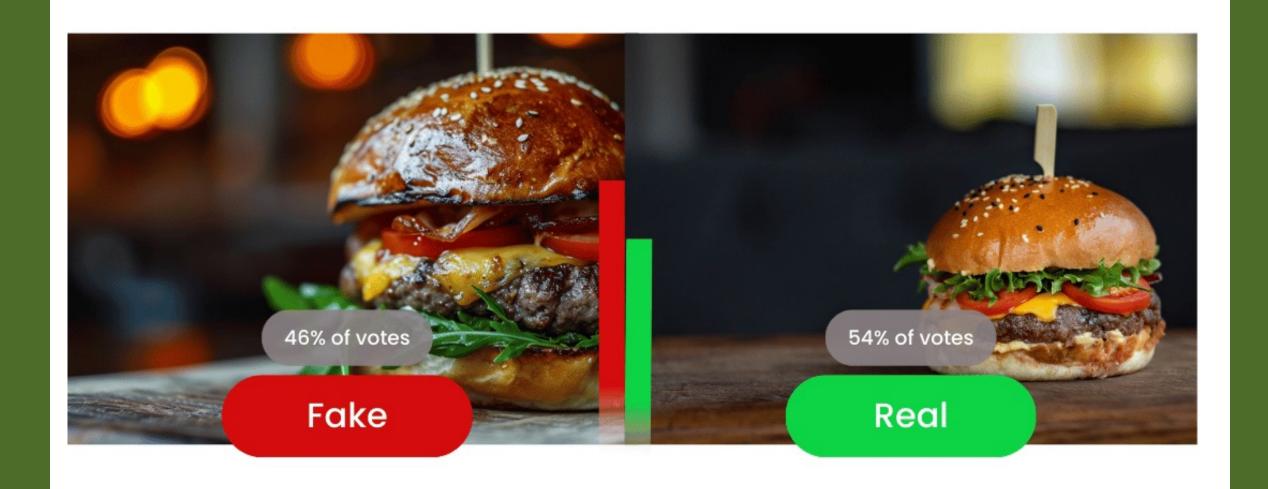
Storytelling computers will change the course of human history, says the historian and philosopher



**IMAGE: DAN WILLIAMS** 

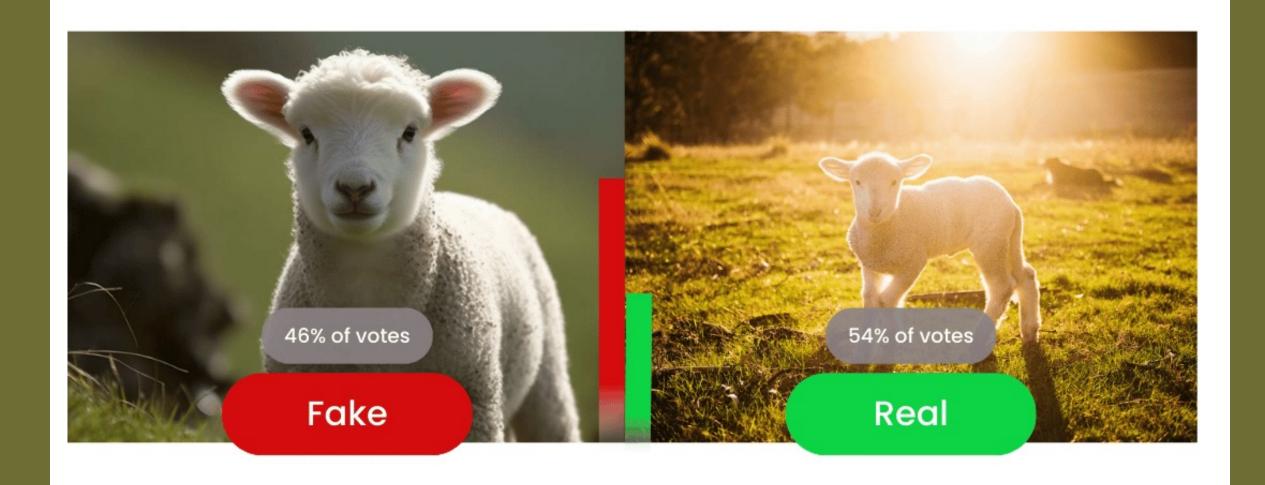






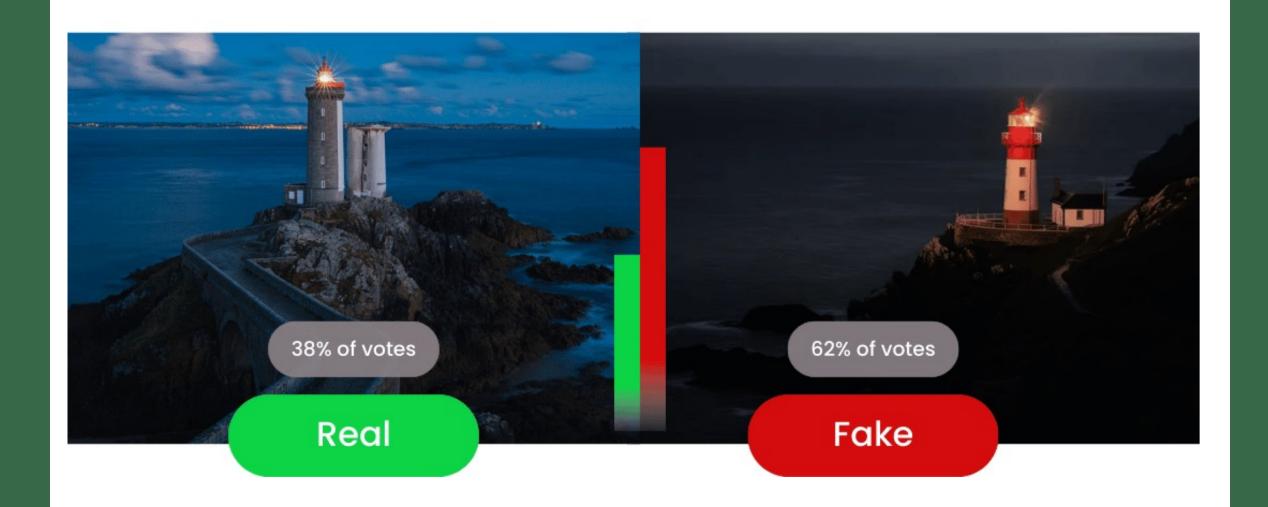
























**5** Explore more examples









## Meet the 'world's hottest model' catching the eye of famous footballers, MMA fighters and billionaires - but is all what it seems?

- Emily Pellegrini has amassed Instagram following of 123,000 in four months
- She is regularly offered dates in expensive restaurants and offered holidays
- Emily is an AI generated image and earns her creator thousands on Fanvue

By SHANNON MCGUIGAN

**PUBLISHED:** 03:37 EST, 1 January 2024 | **UPDATED:** 09:32 EST, 1 January 2024

12:05

emilypellegrini



87 327 216K Followers Following

### **Emily Pellegrini**

### Public figure

- · Backup: @sweet.emilypellegrini
- 23 v/o I L.A 🌉
- fun loving girlie

@ beacons.ai/emilypellegrini

### **Follow**





























# The Future of Al:

### Timelines for Tasks that Machines will Perform

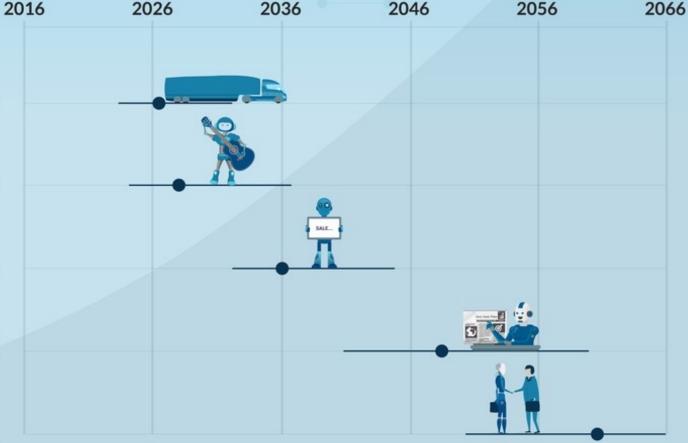
Generate a top 40 pop song

Truck Driver

Retail Salesperson

Write New York Times Best-seller

All Human tasks, brain-computer interface allows humans to augment themselves?











### **Apple Vision Pro**



# **KVision Pro**

Pre-order starting 1.19 at 5:00 a.m. PT Available starting 2.2









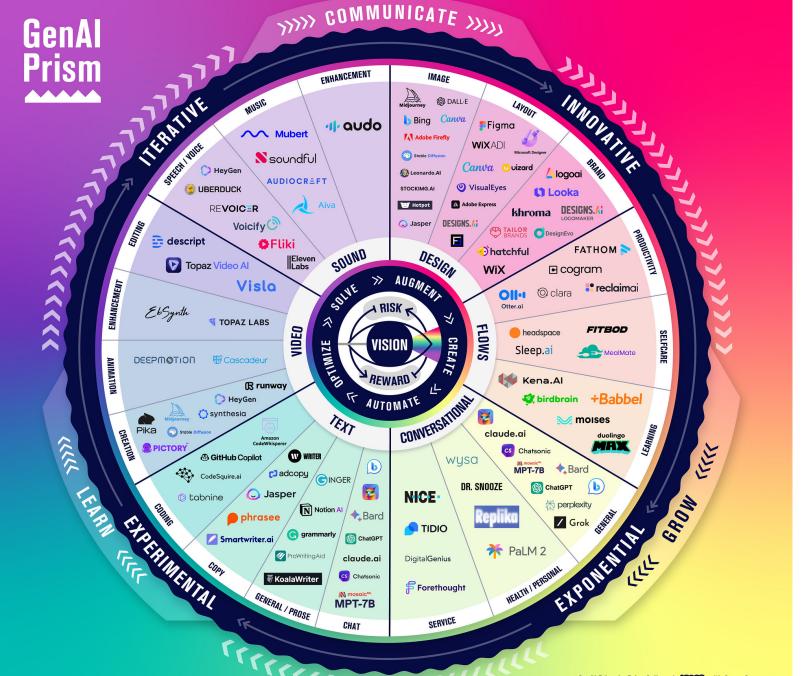






\$199

no subscription required



Coding Copywriting Research Essay Writing Creative Writing Academic Essay Writing News Summary















Model
GPT-4

ChatGPT PLUS

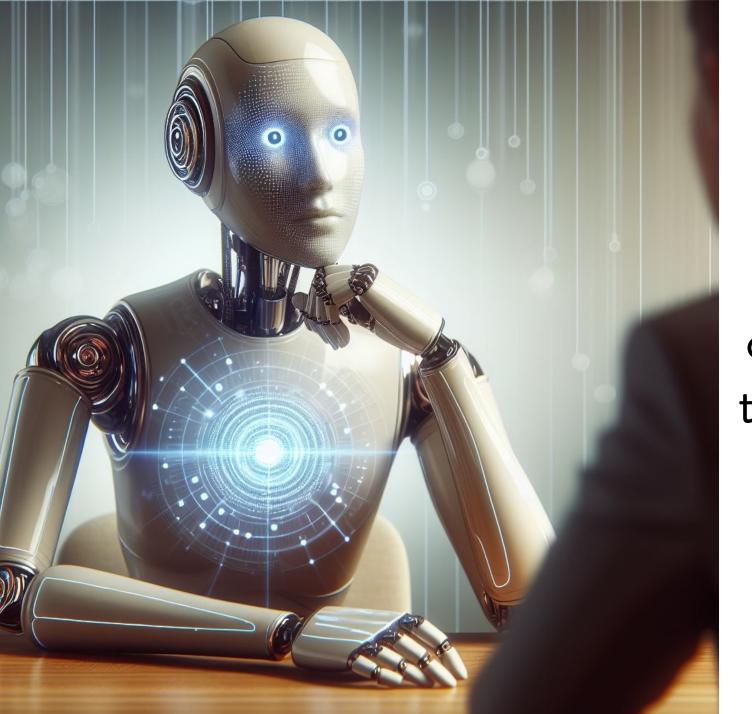




GPT-4 currently has a cap of 25 messages every 3 hours. Expect significantly lower caps, as we adjust for demand.

Send a message...

ChatGPT Mar 23 Version. ChatGPT may produce inaccurate information about people, places, or facts



Prompt engineering helps generative Al models better comprehend and respond to a wide range of queries, from the simple to the highly technical.

## Six Strategies for Getting Better Results with GenAl

- Include details in your query to get more relevant answers
- 2. Ask the model to adopt a persona
- Use delimiters to clearly indicate distinct parts of the input
- 4. Specify steps needed to complete a task
- 5. Provide examples
- 6. Specify the desired length of the output
- Use intent classification to identify the most relevant instructions for a user query
- For dialogue applications that require very long conversations, summarize or filter previous dialog
- Summarize long documents piecewise and construct a full summary recursively
- Use embeddings-based search to implement efficient knowledge retrieval
- Use code execution to perform more accurate calculations or call external APIs
- Give the model access to specific functions

Write clear instructions

Provide reference text

- Use the prompt to instruct the model to answer using a reference text
- Instruct the model to answer with citations from a reference text

3

Split complex tasks into simpler subtasks

4

Give genAl time to "think"

- Instruct the model to work out its own solution before rushing to a conclusion
- Use inner monologue or a sequence of queries to hide the model's reasoning process
- Ask the model if it missed anything on previous passes

5

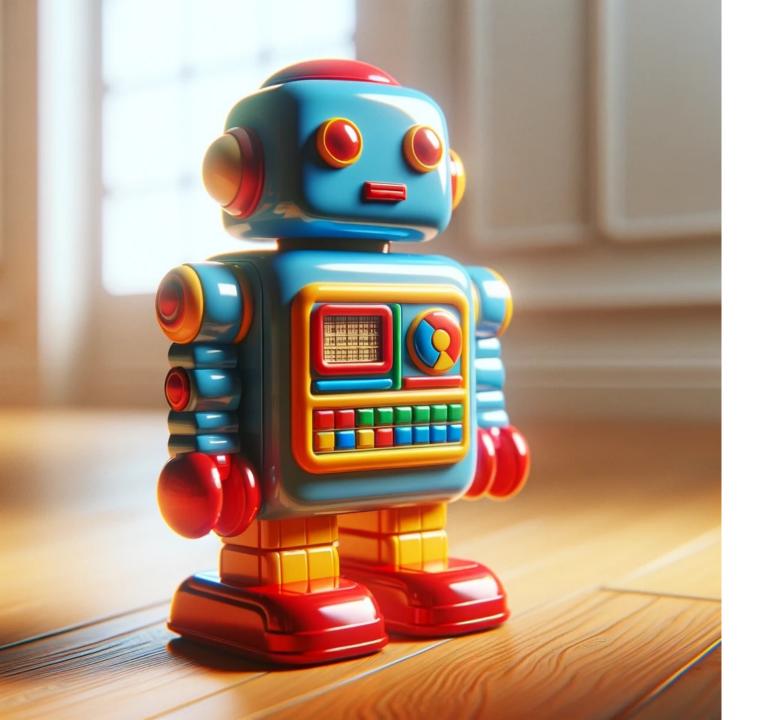
Use external tools

6

Test changes systematically

 Evaluate model outputs with reference to gold-standard answers





"Take a deep breath and work on this step by step." CONSUMERS WANT COMMUNICATION
THAT IS HUMAN, EMPATHETIC, AND REAL.
SO HOPEFULLY OUR AT CAN LEARN TO
GENERATE CONTENT LIKE THAT FOR THEM.















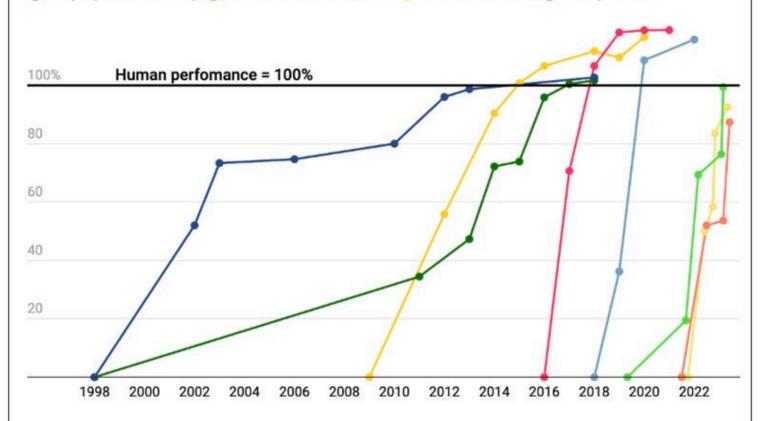




## AI has surpassed humans at a number of tasks and the rate at which humans are being surpassed at new tasks is increasing

State-of-the-art Al performance on benchmarks, relative to human performance





For each benchmark, the maximally performing baseline reported in the benchmark paper is taken as the "starting point", which is set at 0%. Human performance number is set at 100%. Handwriting recognition = MNIST, Language understanding = GLUE, Image recognition = ImageNet, Reading comprehension = SQuAD 1.1, Reading comprehension = SQuAD 2.0, Speech recognition = Switchboard, Grade school math = GSK8k, Common sense completion = HellaSwag, Code generation = HumanEval.

Chart: Will Henshall for TIME · Source: ContextualAl







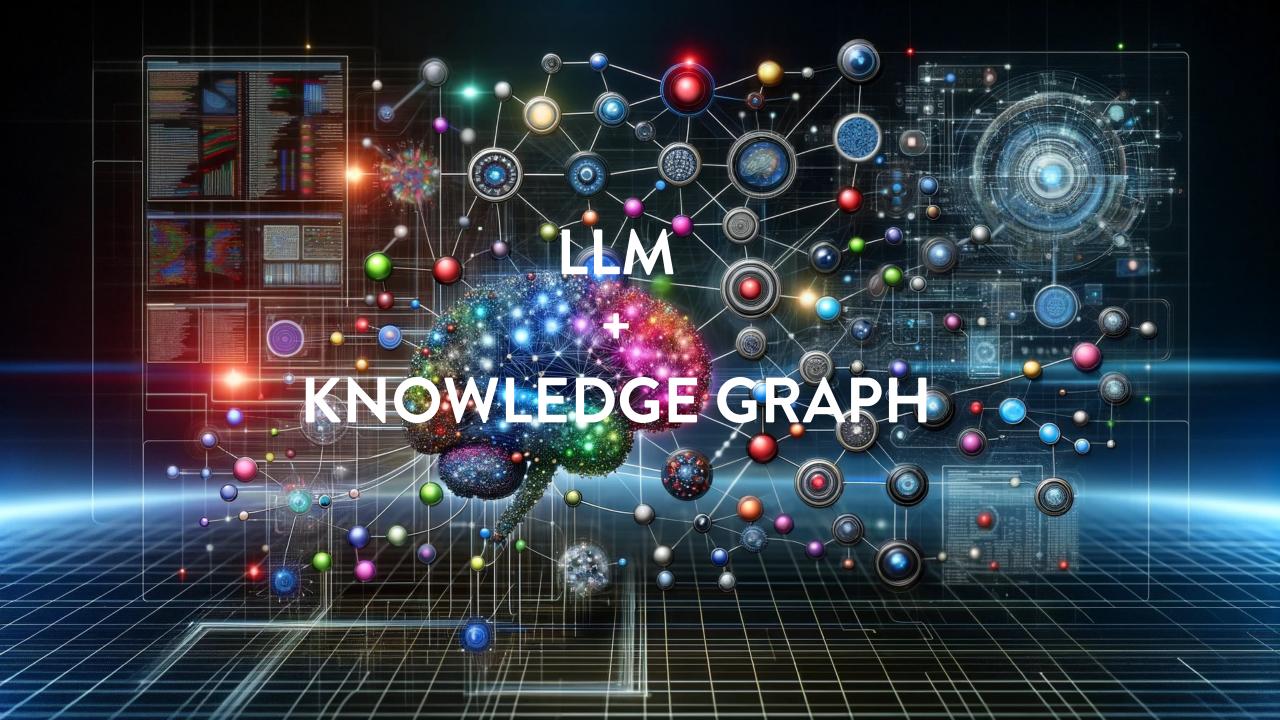
10 ways AI could change work:

- job disruption/loss
- massive retraining
- increase worker surveillance
- new models of engagement
- increase productivity
- make coding universal
- speed up innovation
- create new roles
- make human skills more valuable
- shorten the work week

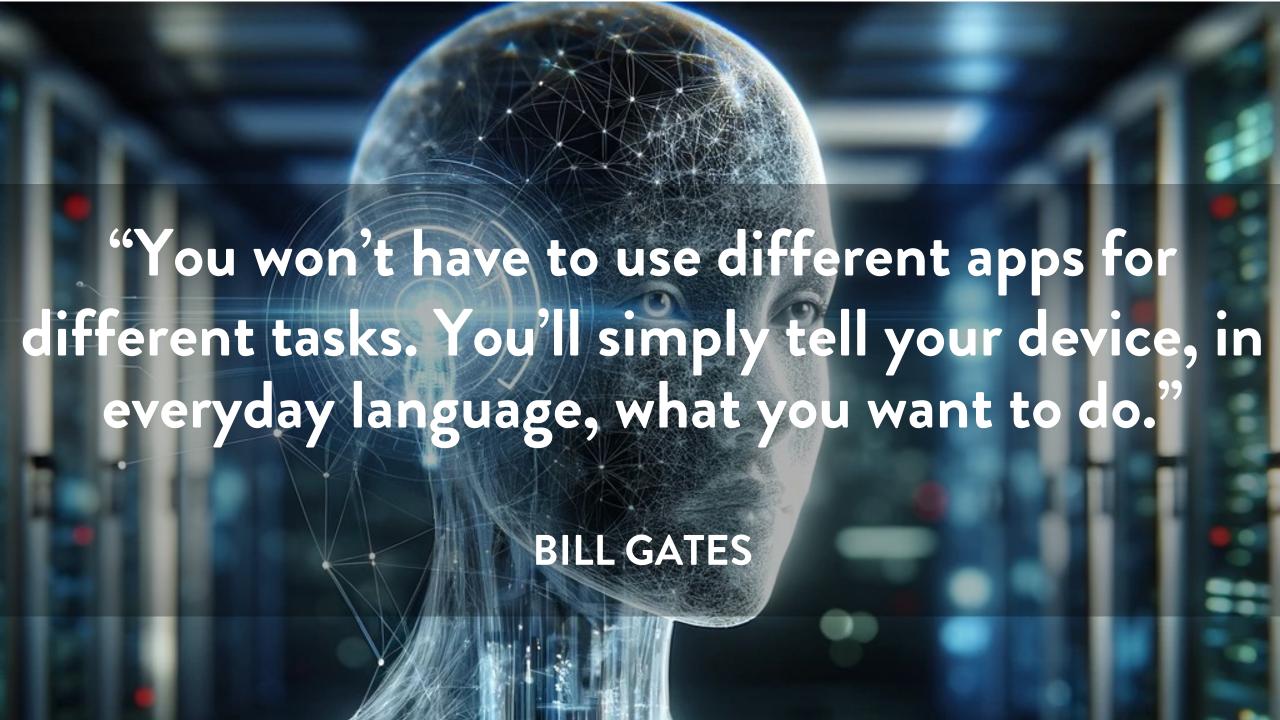
10:58 AM · Jul 5, 2023 · **9,022** Views

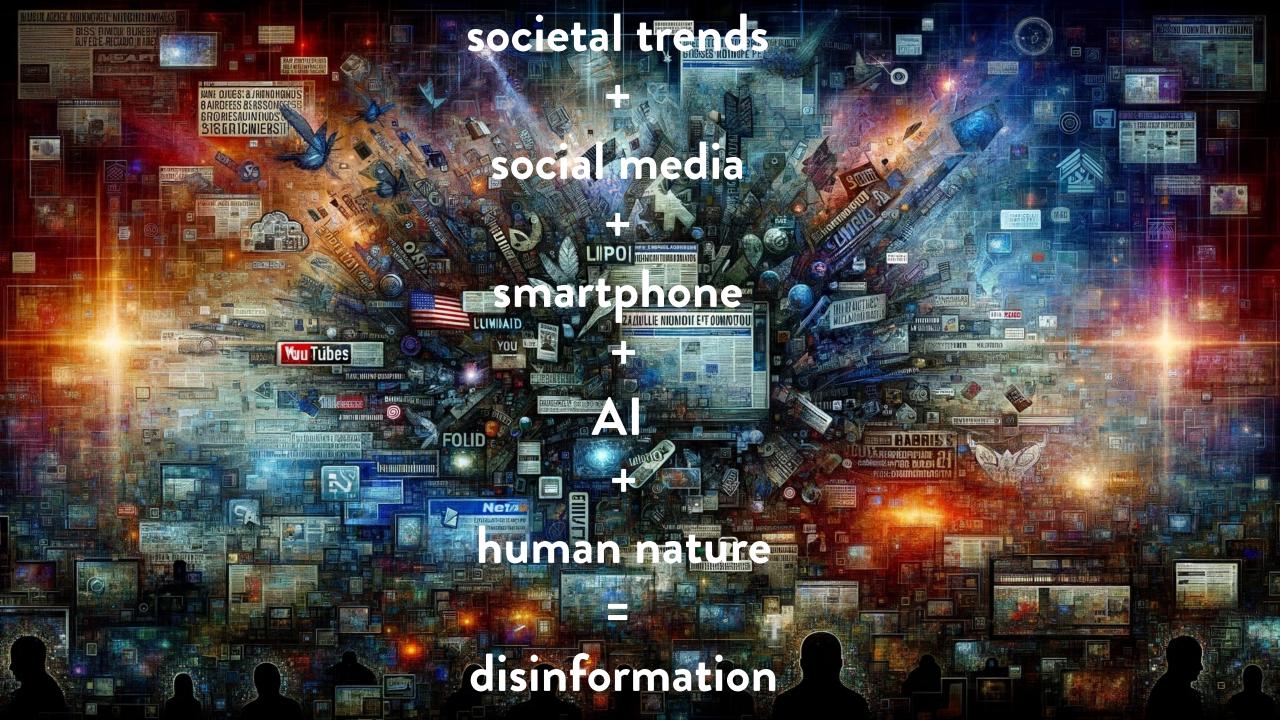
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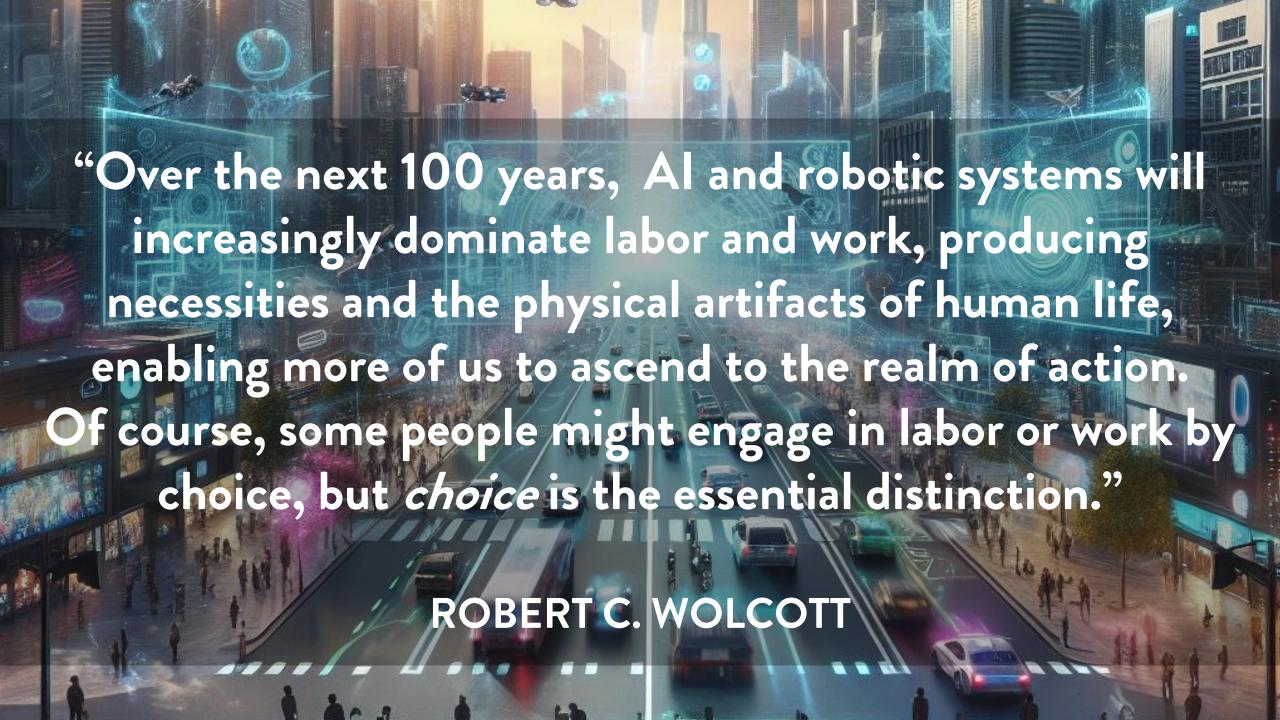


You: Are you able to feel love?

ChatGPT: No, I don't have the ability to feel emotions. I'm here to assist you with information and answer your questions

## **HUMAN + MACHINE**







## **ANAT BARON**

Founder & CEO StashWall, Inc.

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