

IMPERIAL

AI-Enhanced storytelling for fostering a sustainable community and culture

**Dr Tatia Codreanu, Institute of Extended Learning/ Continuing professional
development**

26/03/2025

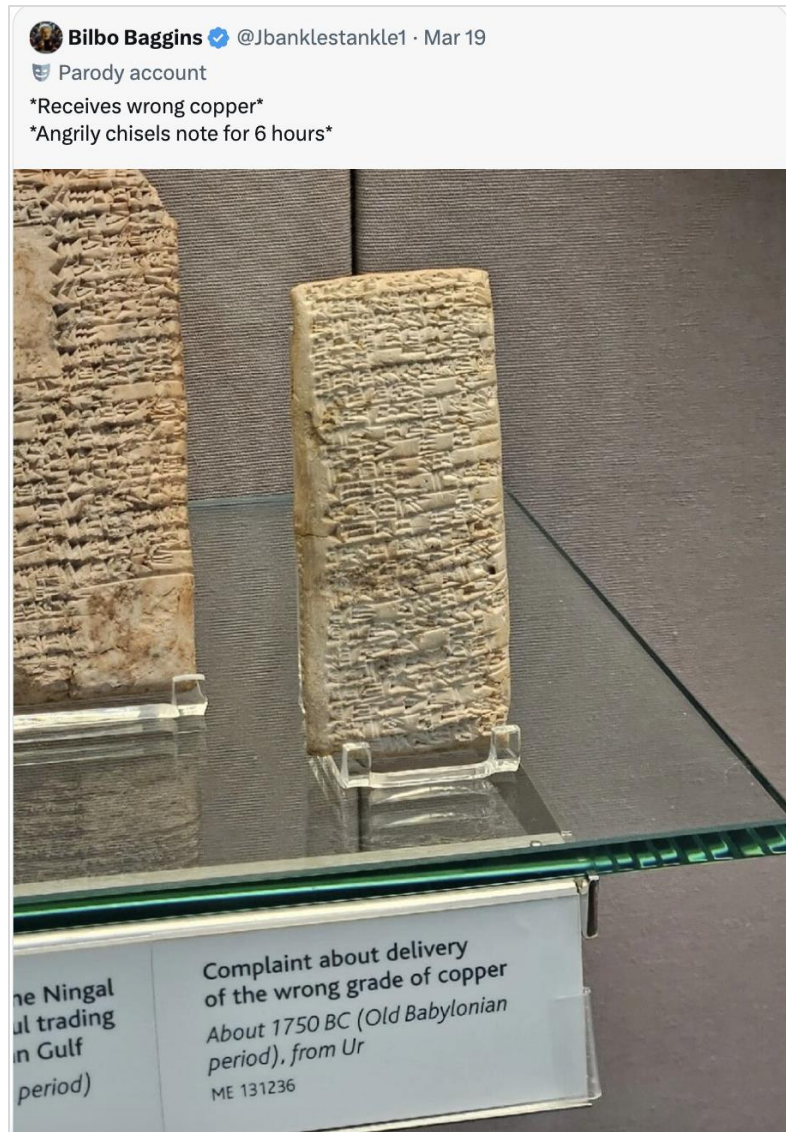
Humans, storytelling, evolutionary dynamics



Glenn Matlin
@GlennMatlin

I love the Complaint Tablets. One of the earliest examples of language, stories, and finance all coming together. Even after thousands of years, some aspects of humanity are entirely universal.

en.m.wikipedia.org/wiki/Complaint...

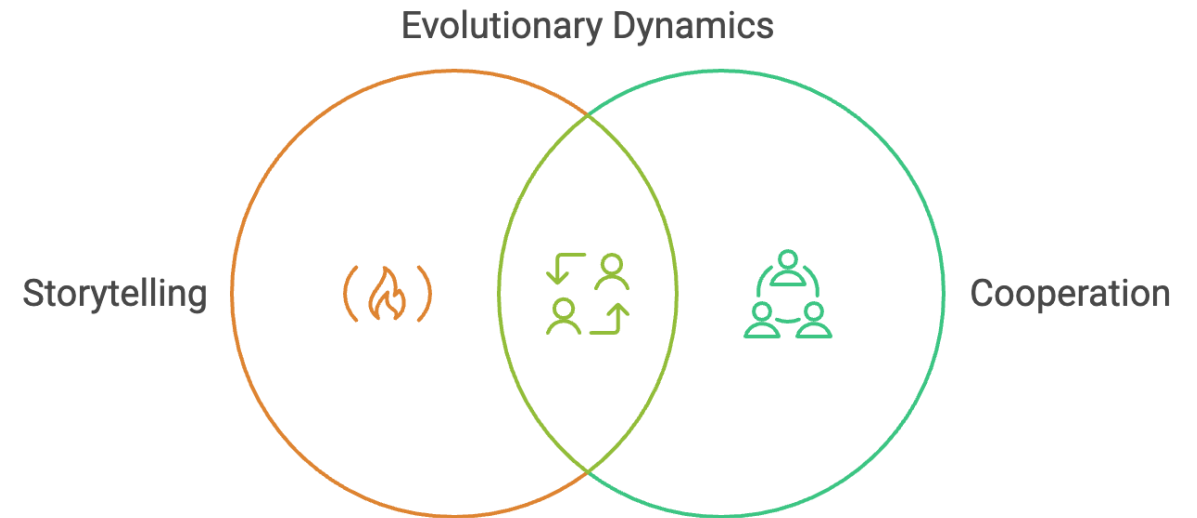


Humans, storytelling, evolutionary dynamics

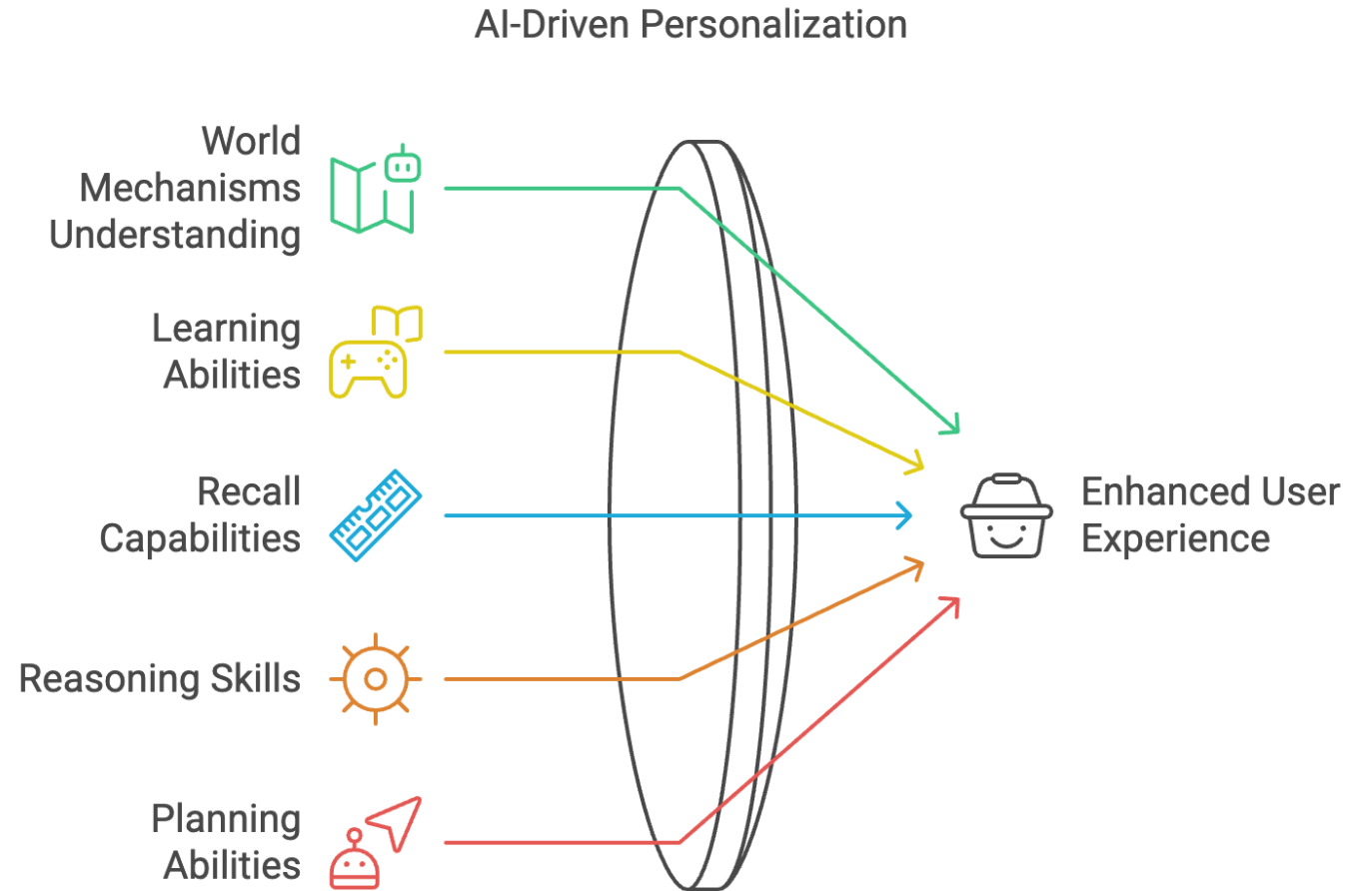
Good storytellers

- Convey messages that help coordinate behaviour (like cooperation and equality).
- Make people work better together.
- Skilled storytellers are popular.
- Storytelling might have evolved to help organize cooperation among hunter-gatherers.
- Smith and al. (2017). Cooperation and the Evolution of Hunter-Gatherer Storytelling.

The Evolutionary Role of Storytelling in Cooperation

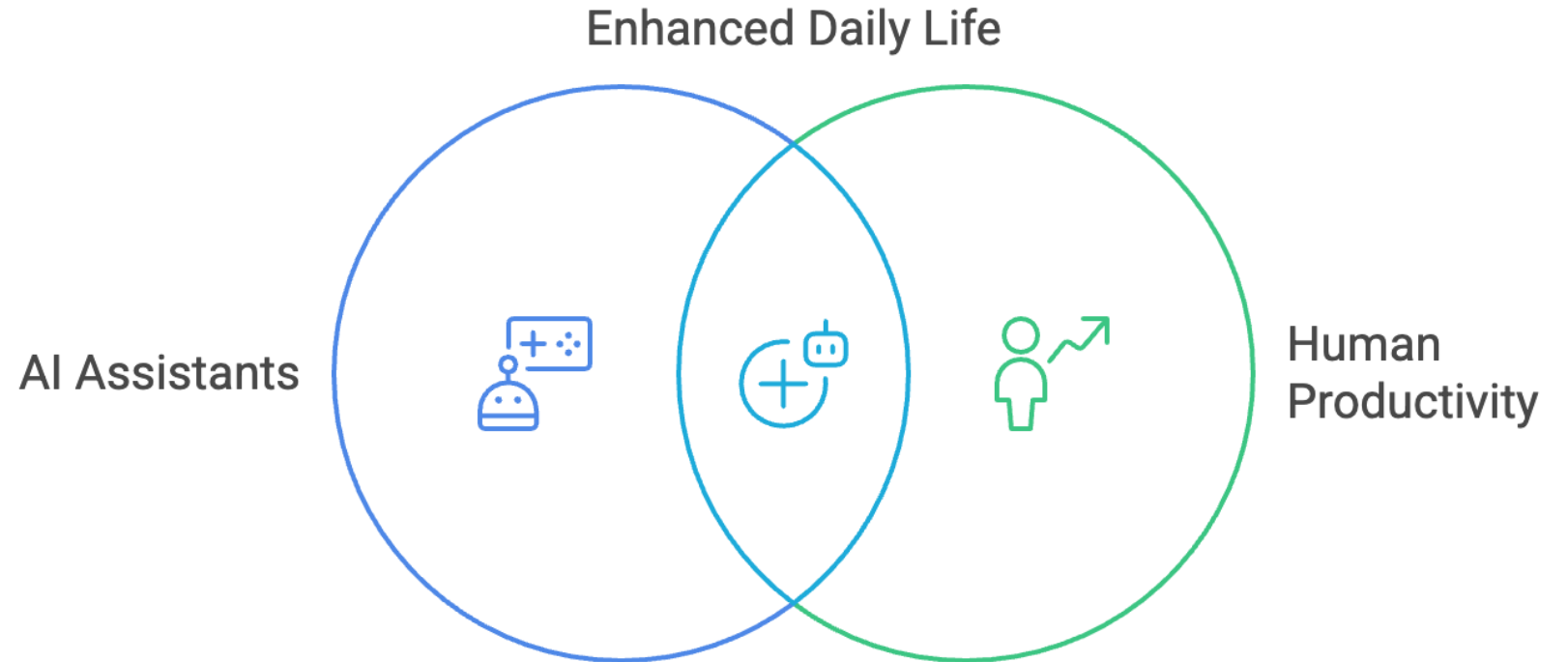


The Future of AI-mediated digital interactions



The Future of AI-mediated digital interactions

The Role of AI Assistants in Daily Life

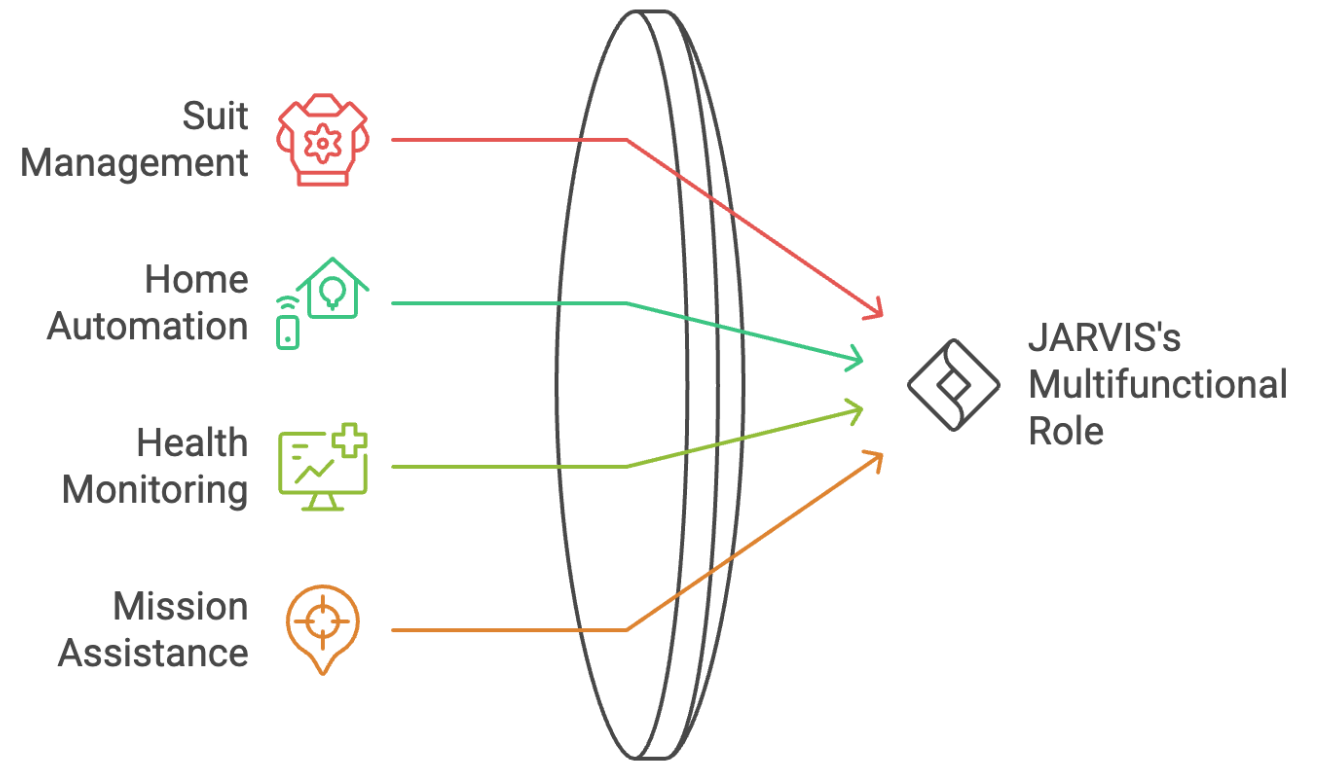


The Future of AI-mediated digital interactions

Iron Man's JARVIS

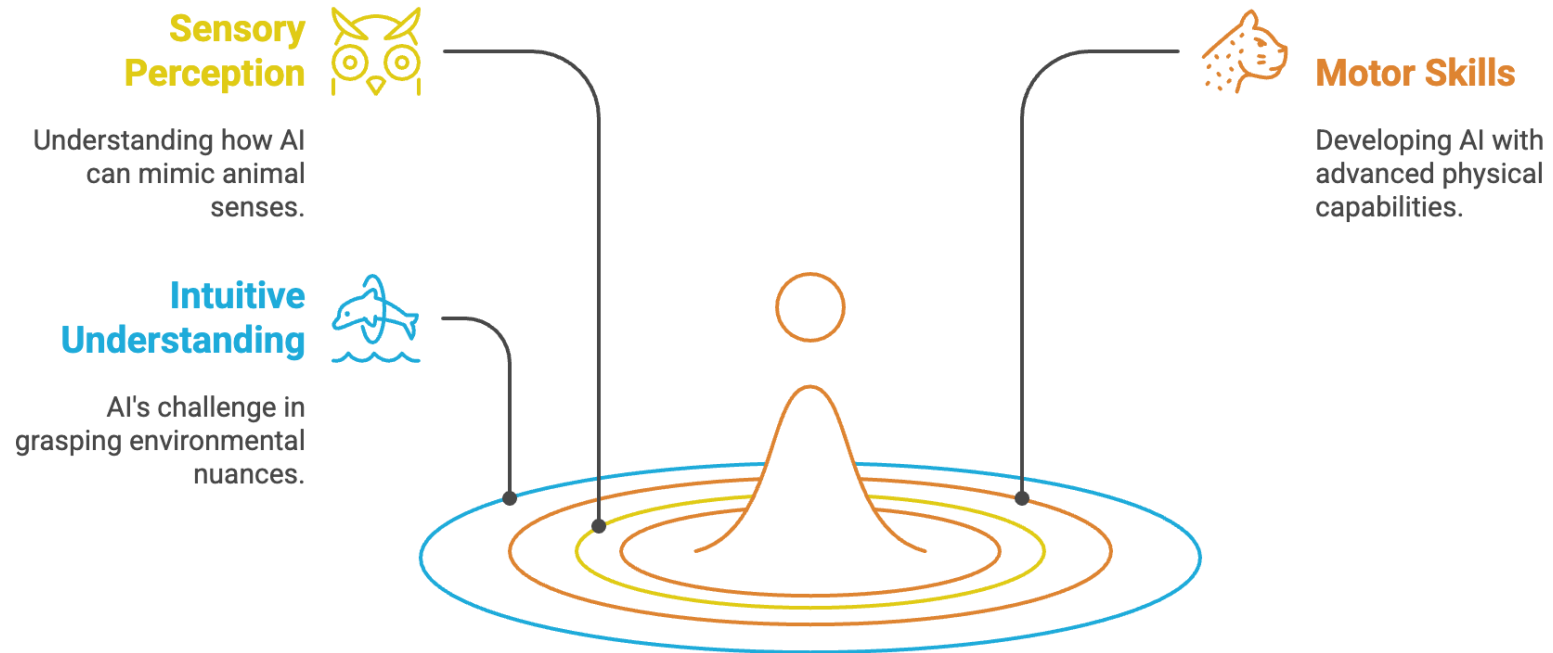
- JARVIS (Just A Rather Very Intelligent System) is Tony Stark's AI assistant in the Marvel universe.
- Originally inspired by Edwin Jarvis, the Stark family butler, JARVIS evolved into a sophisticated AI.
- JARVIS manages Tony's suits, homes, health, and even assists during Avengers missions.

JARVIS's Integrated Intelligence



Bridging the gap

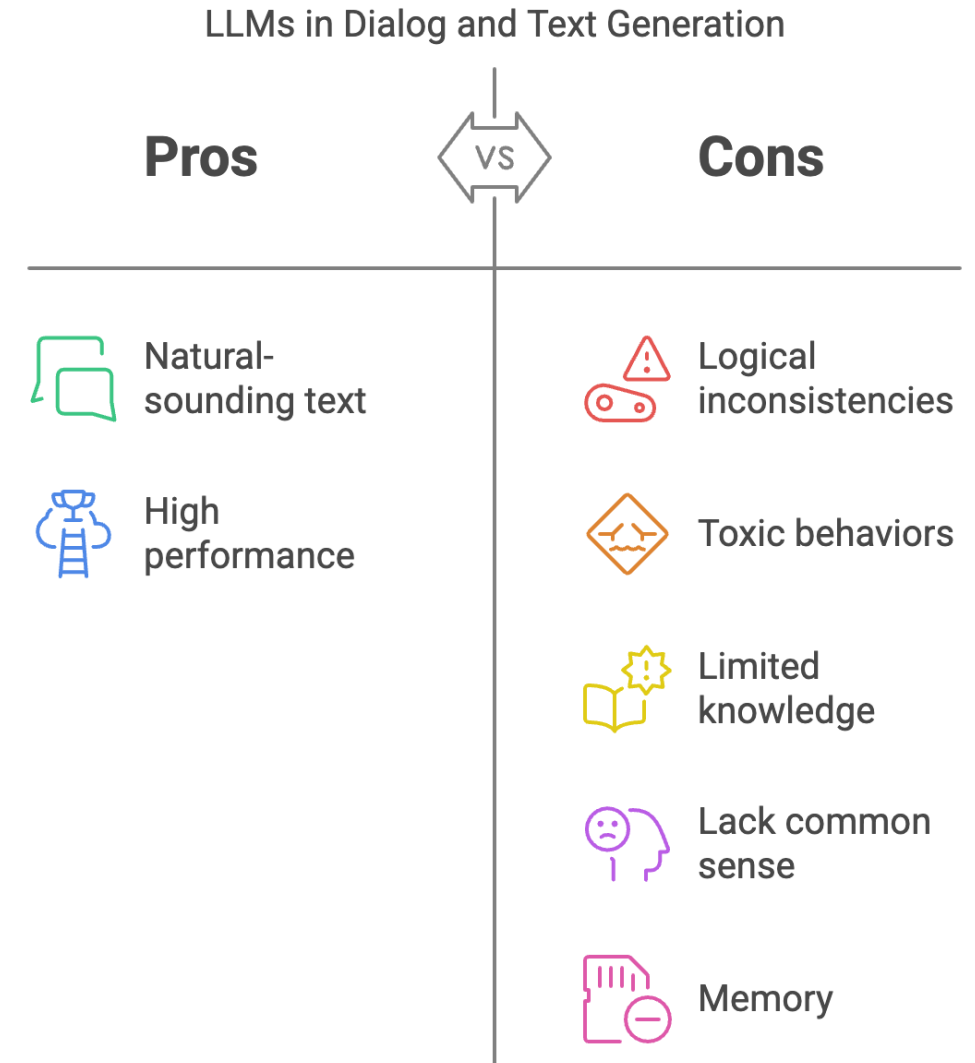
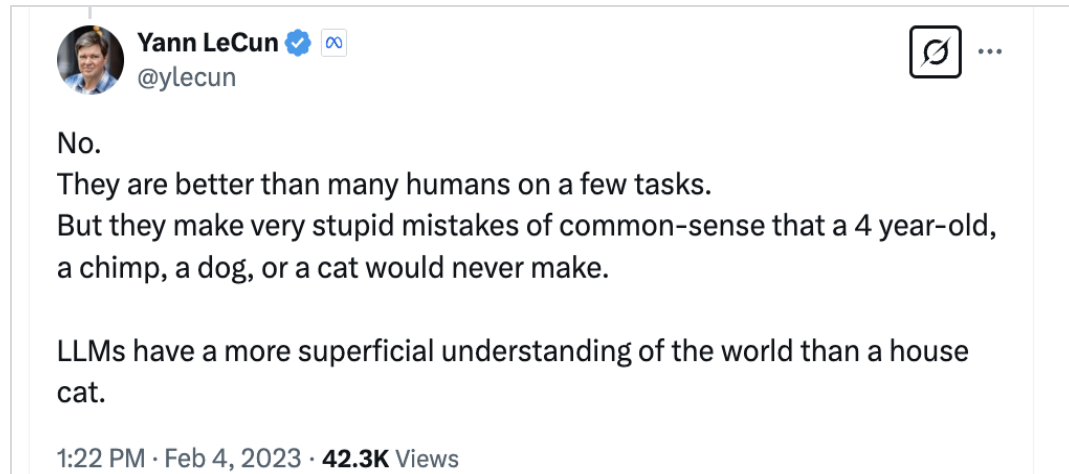
AI and Animal-Level Intelligence






Landscape of LLMs in Dialog and Text Generation

Addressing these fundamental limitations remains a critical area of research to enhance their utility and reliability in real-world applications.



(Gestrin et al., 2024)



Large concept models LCM


**Yann LeCun**  • Following
VP & Chief AI Scientist at Meta
6d • 


Exactly

**Gabriel de Souza P. Moreira** • Following
Senior Applied Research Scientist at NVIDIA | Phd. in ML | GDE for ML
1w • Edited • 

"I am not interested anymore in LLMs. They are just token generators and those are limited because tokens are in discrete space. I am more interested in next-gen model architectures, that should be able to do 4 things: understand physical world, have persistent memory and ultimately be more capable to plan and reason."

Yann LeCun at #Nvidia #GTC2025



 6,547
191 comments · 249 reposts

Large Concept Models:

Language Modeling in a Sentence Representation Space

The LCM team, Loïc Barrault*, Paul-Ambroise Duquenne*, Maha Elbayad*, Artyom Kozhevnikov*, Belen Alastruey†, Pierre Andrews†, Mariano Coria†, Guillaume Couairon^{††}, Marta R. Costa-jussà†, David Dale†, Hady Elsahar†, Kevin Heffernan†, João Maria Janeiro†, Tuan Tran†, Christophe Ropers†, Eduardo Sánchez†, Robin San Roman†, Alexandre Mourachko‡, Safiyyah Saleem‡, Holger Schwenk‡

FAIR at Meta

*Core contributors, alphabetical order, †Contributors to data preparation, LCM extensions and evaluation, alphabetical order, ‡Research and project management, alphabetical order, ⁺Initial work while at FAIR at Meta, new affiliation: INRIA, France

LLMs have revolutionized the field of artificial intelligence and have emerged as the de-facto tool for many tasks. The current established technology of LLMs is to process input and generate output at the token level. This is in sharp contrast to humans who operate at multiple levels of abstraction, well beyond single words, to analyze information and to generate creative content. In this paper, we present an attempt at an architecture which operates on an explicit higher-level semantic representation, which we name a “*concept*”. Concepts are language- and modality-agnostic and represent a higher level idea or action in a flow. Hence, we build a “*LARGE CONCEPT MODEL*”. In this study, as proof of feasibility, we assume that a concept corresponds to a sentence, and use an existing sentence embedding space, SONAR, which supports up to 200 languages in both text and speech modalities.

The *LARGE CONCEPT MODEL* is trained to perform autoregressive sentence prediction in an embedding space. We explore multiple approaches, namely MSE regression, variants of diffusion-based generation, and models operating in a quantized SONAR space. These explorations are performed using 1.6B parameter models and training data in the order of 1.3T tokens. We then scale one architecture to a model size of 7B parameters and training data of about 2.7T tokens. We perform an experimental evaluation on several generative tasks, namely summarization and a new task of summary expansion. Finally, we show that our model exhibits impressive zero-shot generalization performance to many languages, outperforming existing LLMs of the same size. The training code of our models is freely available.^a

Date: December 12, 2024

Correspondence: Holger Schwenk at schwenk@meta.com

^ahttps://github.com/facebookresearch/large_concept_model



Empowering students with AI, to become creators



Empowering students with AI, to become creators

Harnessing AI Creativity

ChatGPT

Leverage the power of large language models to generate original story ideas, character profiles, and dialogue.

Pictory

Create visually stunning, AI-generated videos to enhance your storytelling and bring your narratives to life.

Perplexity, [You.com](#), Claude AI, Copilot, AI Board of Innovation

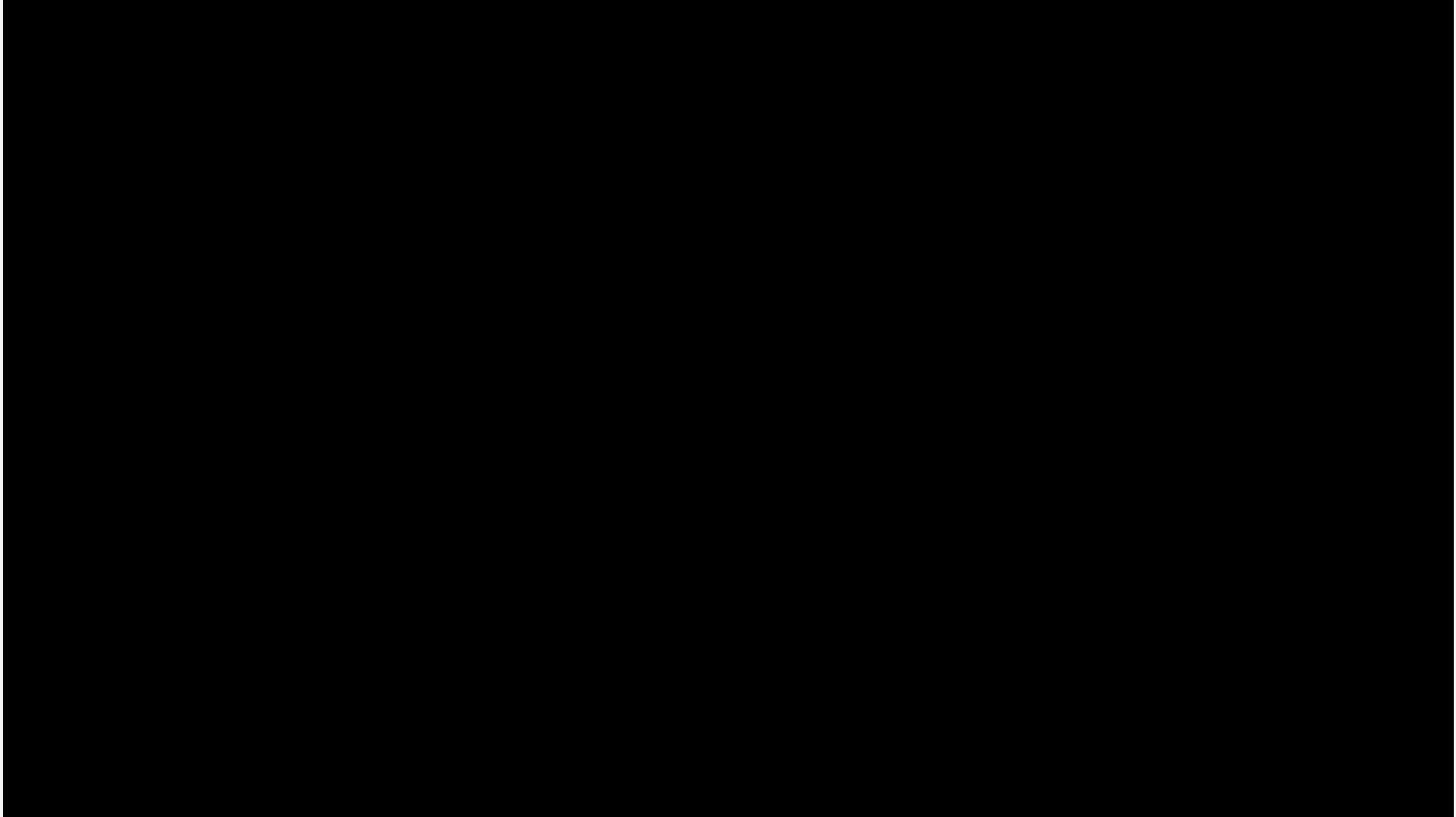
Tap into AI's analytical capabilities to uncover insights and trends that can inform your creative decision-making.

Canva, Gamma


Utilise advanced AI visual assistants to streamline design processes and enhance presentation aesthetics

 Made with Gamma

Empowering students with AI, to become creators



Empowering students with AI, to become creators

HyperWrite

AI ToolsEditorPricingHelp

All AI Tools / Story Generator

Story Generator

Unleash your creativity with HyperWrite's Story Generator, an AI-powered tool that crafts engaging stories based on your given topic or prompt. Utilizing the power of GPT-4 and ChatGPT, this tool generates stories complete with characters and plot elements, helping you save time and spur your creativity.

Try it

Create account

IIElevenLabs

PLATFORMSOLUTIONSAPIDOCSPRICINGENTERPRISECOMPANY

Create the most realistic speech with our AI audio platform

Pioneering research in Text to Speech, AI Voice Generator, and more

GET STARTED FREE

SUNO

ExplosiveClickTrack4151

HomeCreateLibraryExploreSearchNotifications

50 Credits

Upgrade to Pro

Invite friends

What's new?

More from Suno

Featured

Create your own song

21 Songs · 25

jazz through the years

a collection of jazz music blending old-timey vintage jazz with modern jazz fusion

doe eyes

21 Songs · 52

beautiful ballads

dear mom, dad, crush, significant other, sibling, whoever.

ctholly

19 Songs

80's

Best 80's

Them

For You

You are my soul

monotone, LO-Fi, soulful, female vocals

AnitaDeli

4.7K · 155 · 9

I'm Proud of You

experimental, rap-driven, psychedelic r...

ExoticButters

3.6K · 82 · 0

Suggested Creators

Feline Music [Youtube...]

75K followers

@felinemusic · Suggested

Follow

Whispers of the

Progressive meta...

Cloacina

Trending

Show's over

show feeling with

Potato-phonio

KLING AI

Upgrade PlanAPI CallsSign In

HomeExploreEvents

AI Assets

AI ImagesReference 15

AI VideosElements

AI Custom Model

My Space

My Creatives

My Models

KLING AI APP

KLING AI, SPARK YOUR IMAGINATION

Next-Generation AI Creative Studio

AI Images

Powered by KOLORS®

AI Videos

Powered by KLING®

Effects

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Trending Shorts

More

AURORA

Mecury...

379 · 00:45

Orchidea

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Lueta Et Astra

159 · 01:23

DIMARIUS

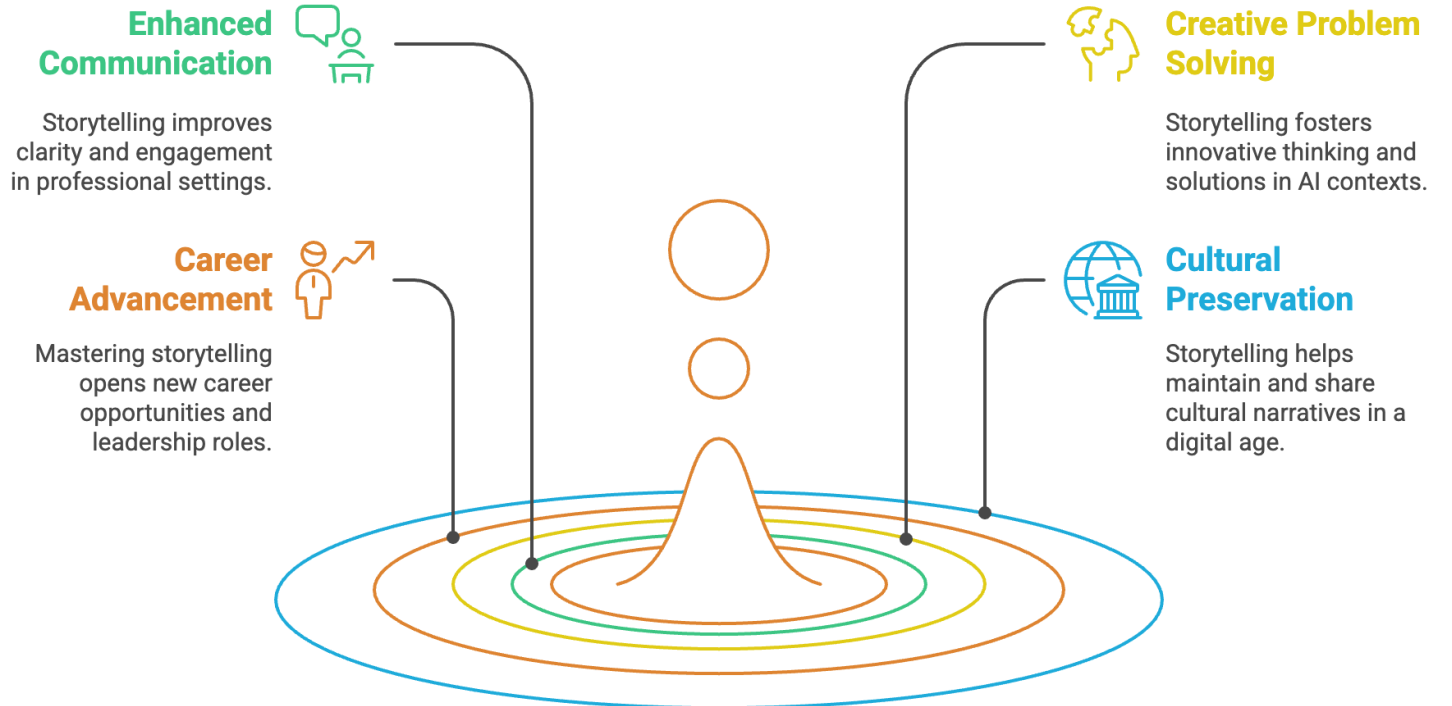
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AI-enhanced storytelling techniques

Scott Galloway (marketing Professor at Stern School of Business), emphasized the importance of storytelling skills for young professionals in the AI era.

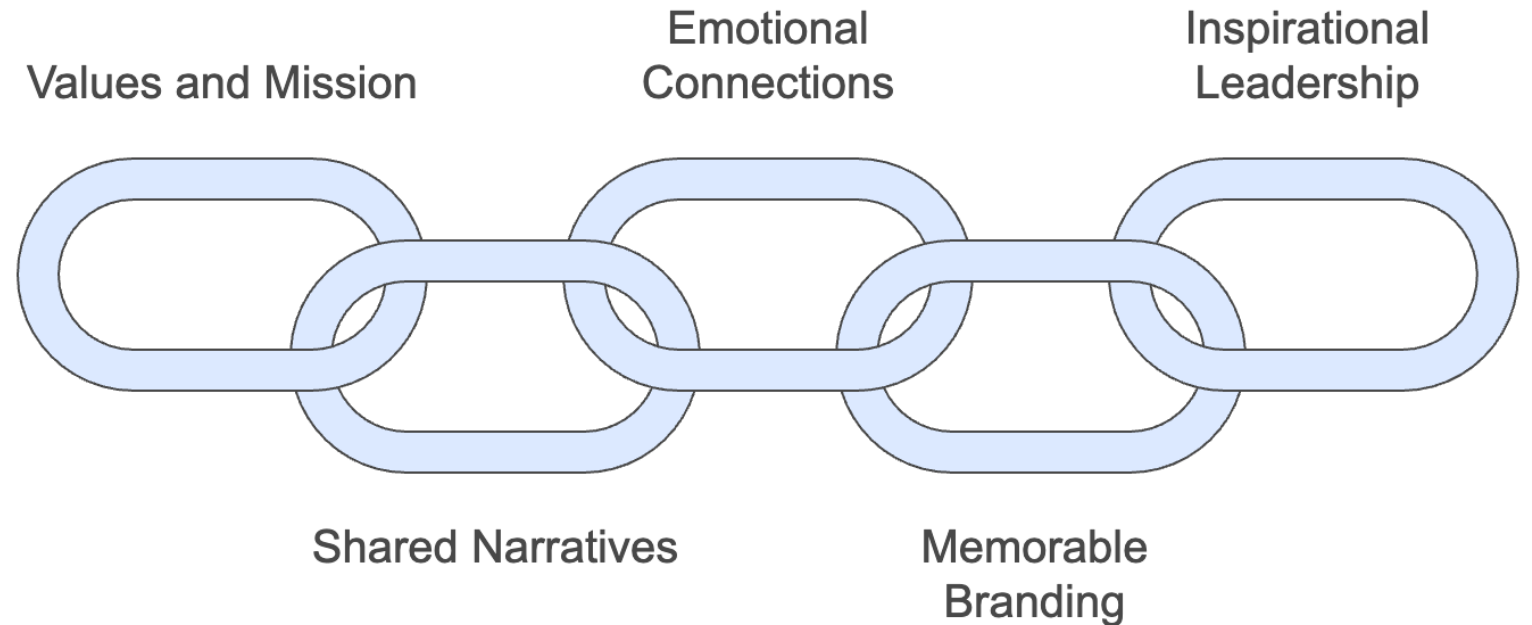
If he could impart one competence to his children that would stand the test of time, it would be storytelling.

Storytelling Skills in the AI Era



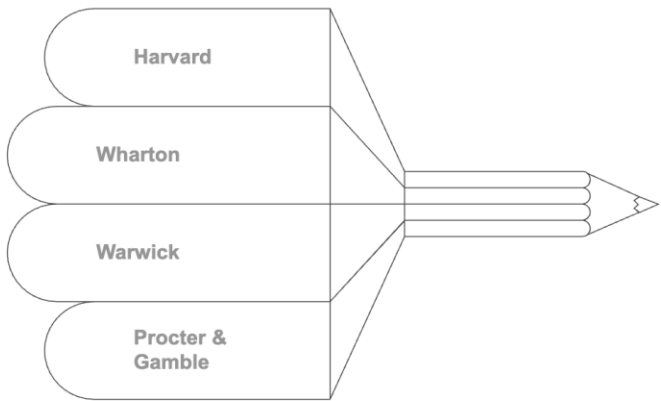
The power of stories in education

The Power of Storytelling in Shaping University Culture



Universities and the power of stories in AI-enhanced collaboration

Collaborative Synergy



The Cybernetic Teammate: A Field Experiment on Generative AI Reshaping Teamwork and Expertise

Fabrizio Dell'Acqua Harvard Business School and Digital Data Design Institute at Harvard	Yi Han Procter & Gamble
Charles Ayoubi ESSEC Business School	Jeff Goldman Procter & Gamble
Hila Lifshitz Warwick Business School and Digital Data Design Institute at Harvard	Hari Nair Procter & Gamble
Raffaella Sadun Harvard Business School and Digital Data Design Institute at Harvard	Stew Taub Procter & Gamble
Ethan Mollick The Wharton School, University of Pennsylvania	Karim R. Lakhani Harvard Business School and Digital Data Design Institute at Harvard
Lilach Mollick The Wharton School, University of Pennsylvania	

Working Paper 25-043

Synergy in AI-Human Collaboration

