NYU

NYU Teaching and Learning with Generative AI Conference

Demystifying Generative AI: AI-B-Cs for Faculty

Yuliya Yoncheva, PhD

2023.10.27

Thank you Clay Shirky, De Angela Duff, Anandi Nagarajan, Lucy Appert, Anusha S Rao

8. Brief interactions with LLMs are often misleading.

Samuel R Bowman, 2023

"Eight Things to Know about Large Language Models"

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AI

- data & practice ⇨ inconspicuous predictions

How Generative AI works

- data & practice ⇨ predictions & solutions

- patterns from massive training data are encoded in models

- if prompted with text, GAI outputs synthetic 📝, 🎶, 🎞, or 💻 code from its learnings

4

Bowman, 2023

Now each of us can **directly** engage with our 💻's AI

using human language

5

Kozyrkov, 2023

Now each of us can **directly** engage with our 💻's AI

using human language

but differences from traditional tech can **confuse** us

1. trained to be useful
Aims to Assist

answers are not authoritative

confabulations, not learned facts

no capacity to hallucinate or lie

Yoncheva, 2023

2. synthetic GAI content
Built to Blend in

mimics human-created works

built to be believable

credentials inspector for user-tagged 🖼️, 🎞️, 🎶
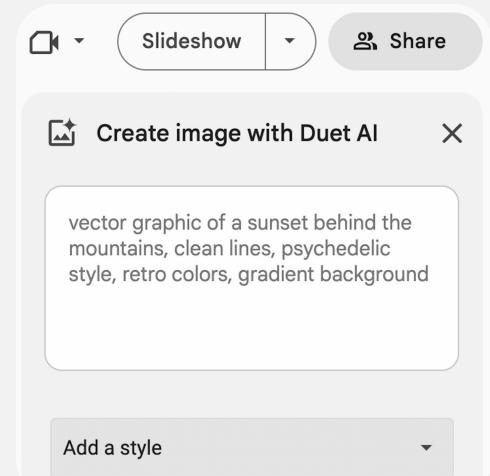
Yoncheva, 2023

3. ubiquitous tech
Convenient Component

reusable AI engines reside in
base, foundation models

many interfaces & apps

ChatGPT ⊃ generative AI

📷 ▾   [Slideshow] [▾]   👥 Share

🖼️ **Create image with Duet AI**   ✕

vector graphic of a sunset behind the
mountains, clean lines, psychedelic
style, retro colors, gradient background

Add a style   ▾

an AI co-pilot era of education

judging GAI output quality takes discernment

Tone

Summarize

Bulletize

Elaborate

Shorten

Rephrase

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an AI co-pilot era of education

judging GAI output quality takes discernment

perplexity.ai

Ask anything...

Academic ˅   ⊕ File   Copilot →

phind.com

Your AI search engine and pair programmer.

Describe your task in detail. What are you stuck on?

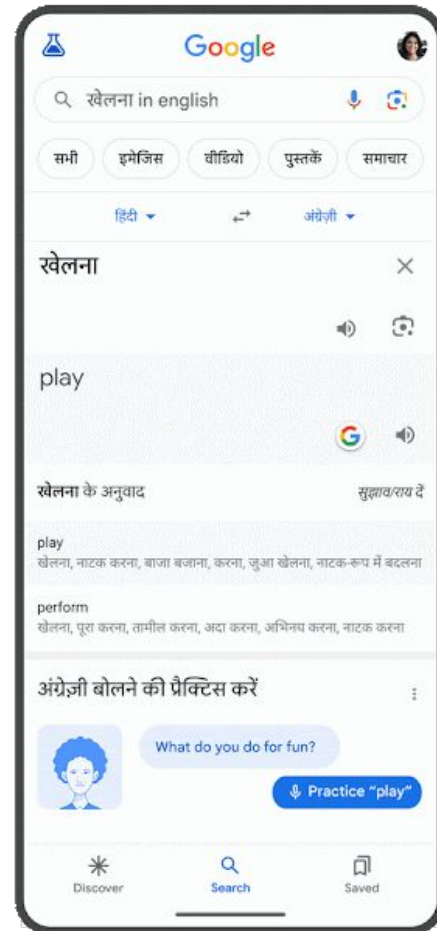Pair Programmer   GPT-4 ˅

YOU.com

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Start typing to search...

Tone

Summarize

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Shorten

Rephrase

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conceptual mastery & practice

Plagemann & Cox, 2023

conceptual mastery & practice

re-calibrate expectations about engagement with technology