

Are you sure?

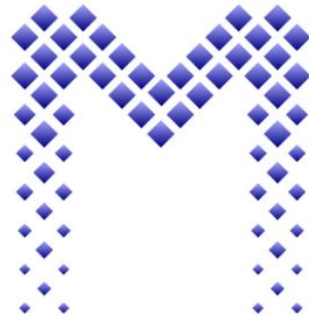
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Matrix Institute Panel: Generative AI



Matrix Institute

Panelists



[Callum Curtis](#) (Software Engineering student),

[Valerie Irvine](#) (Educational Technology),

[Yun Lu](#) (Computer Science),

[Jentery Sayers](#) (English),

[George Tzanetakis](#) (Music/Computer Science).

Moderated by Matrix Director [Neil Ernst](#).

Format

Short overview of generative AI

2-3 min. position statements from each panelist.

Remainder: Questions and Answer discussion.

Audience questions: raise a hand and ask via the moderator (who will repeat).

Zoom: please ask via Zoom chat or the 'raise hand' function.

Overview

Generative AI is a catch-all term for tools and techniques using sophisticated machine learning systems to generate outputs in response to a user prompt.

Examples include

- ChatGPT/Bing for text and software code;
- Stable Diffusion for novel image representations;
- AlphaFold for protein structure prediction;
- MuBERT for music generation;
- And more every day.

These tools are trained on billions of inputs (images, text, videos, books,...) and produce large statistical models with billions of parameters.



1. Enter prompt

a free jazz song in the style of herbie Hancock with a keyboard solo

2. Set duration

00:45

Generate track

or choose:

Genres

Moods

Activities



A free jazz song in the style of herbie Hancock with a keyboard solo

Text-To-Music 110 F

Track

0:45



Welcome to the new Bing

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🗨️ Ask complex questions

🤖 Get better answers

🎨 Get creative inspiration

"What are some meals I can make for my picky toddler who only eats orange-colored food?"


"What are the pros and cons of the top 3 selling pet vacuums?"

"Write a haiku about crocodiles in outer space in the voice of a pirate"

Let's learn together. Bing is powered by AI, so surprises and mistakes are possible. Make sure to check the facts, and [share feedback](#) so we can learn and improve!

Opening Statements

Questions

To what extent are these tools **creative** rather than parroting existing patterns of speech (**Stochastic Parrot**  effect)?

How much of human activity is spent on automatable tasks (writing mission statements, boilerplate letters)? How do we manage the amount we allow AI-assistance? E.g. [the Clarksworld case](#).

Feedback loops: as these tools are used, their outputs go into the public realm. Does this risk self-reinforcing feedback? Compare to seeking [low-background steel](#), to avoid radiation contamination.

Microsoft [just fired the team](#) working on ethical AI. Should we be worried?

Questions (2)

Should institutions use ChatGPT/BING to apologize for past problems like a sexual harassment claim?

Is **training on images the same as copying** those images? DALL-E allows artists to opt-out (per image). This seems hard to scale. See <https://haveibeenentrained.com>

What is “**transformative use**”? (Warhol Estate vs Prince photographer)

How do academic researchers engage in a space where it costs millions to create AI models?

What do we know / should we know, about these models?

What chatGPT suggests for questions on a panel about the future of chatGPT :)

What questions to ask about the future of chatGPT on a panel about chatGPT

If discussing the future of ChatGPT on a panel, here are some potential questions that could be asked:

1. What new applications or use cases do you see emerging for ChatGPT in the near future?
2. How do you see ChatGPT evolving to address the growing concerns around AI ethics and responsible AI?
3. With the rapid advancement of language models, what challenges do you anticipate in keeping ChatGPT relevant and competitive in the future?
4. How do you envision ChatGPT being integrated with other technologies, such as natural language processing, machine learning, and robotics?
5. How can ChatGPT be used to improve communication and understanding across different languages and cultures?
6. What impact do you think ChatGPT will have on the job market and the future of work?
7. With the increasing interest in personalized AI assistants, what role do you see ChatGPT playing in this space?
8. How can ChatGPT be used to enhance education and learning, and what challenges need to be addressed to make this a reality?
9. What developments in AI research and technology do you think will have the most significant impact on the future of ChatGPT?
10. What ethical considerations should be taken into account when developing and deploying ChatGPT in the future, and how can we ensure that it is used responsibly?

The standard expectation of unknown [creations] is precisely this: That they stem from a **human being who wants to say something.**

–Hannes Bajohr

References / further reading

- Art and AI
<https://aaronhertzmann.com/2022/12/17/when-tech-changes-art.html>
- Teaching with ChatGPT
<https://oneusefulthing.substack.com/p/my-class-required-ai-heres-what-ive>
- Writing and ChatGPT
<https://countercraft.substack.com/p/the-flood-of-chatgpt-crap-about-to>
- What it means to write
<https://hannesbajohr.de/en/2023/03/11/on-artificial-and-post-artificial-texts/>
- Stochastic Parrots <https://dl.acm.org/doi/pdf/10.1145/3442188.3445922>

