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The impact of generative Artificial Intelligence (AI) on legislative library and research work

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Photo: Slothouber, Chris, [Queen's Park](#), 2008, licensed under [CC BY 2.0](#)

Overview

- Generative AI: definition
- Large Language Models
- Limitations
- Examples: text (ChatGPT3) and images (Craiyon)
- LAO AI Group



Photo: entry to Legislative Library, Legislative Assembly of Ontario

Generative AI: generates content

- Generative AI has been defined as

"a broad term that can be used for any AI system whose primary function is to generate content. . . ."

Versus

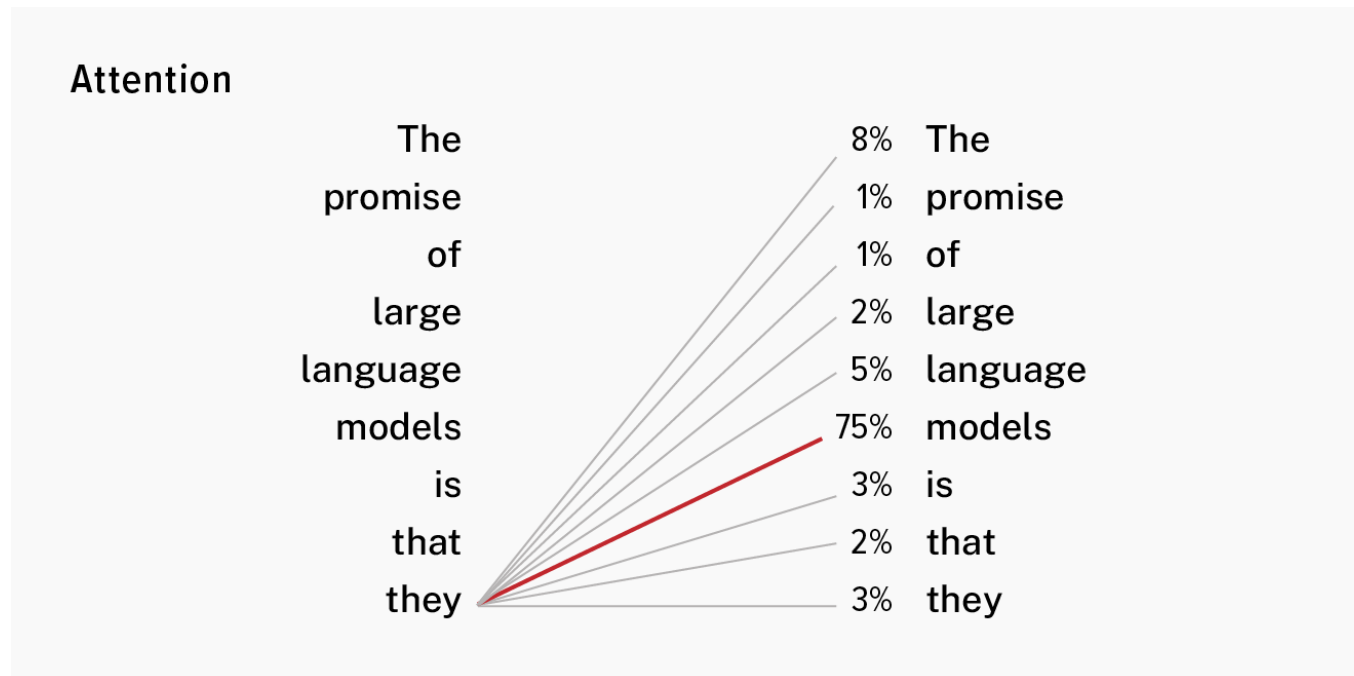
- Classify data
- Group data
- Choose actions

Large Language Model (LLM) and ChatGPT

- ChatGPT: LLM based chatbot
- Trained on internet, books, etc.
- "Reads" a lot of text; learns how words appear in context with other words; **predicts** next most likely word
- Understands language in statistical, rather than grammatical way

How a LLM Works

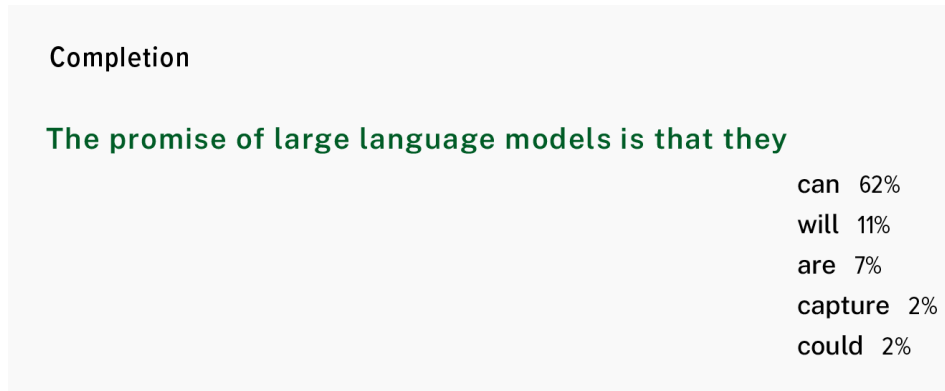
Understanding the prompt (e.g., "they" refers to "models")



Source: Economist, "Large, creative AI models will transform lives and labour markets," April 22, 2023;
Economist graphic repurposed by Le Dieu Tran, Legislative Assembly of Ontario

How a LLM Works: Completion

Completion (bundles words)



Completion

The promise of large language models is that they can be used to generate text that is indistinguishable from human-written text.

Source: Economist, "Large, creative AI models will transform lives and labour markets," April 22, 2023; Economist graphics repurposed by Le Dieu Tran, Legislative Assembly of Ontario

Treat ChatGPT like an intern

- Can "read" more than we could in a lifetime, incredibly quickly but does not understand context, our world
- "Hallucinates" (technical term); make things up; is trying to *predict* next word based on what it has learned through training; still evolving
- User feedback can help improve model
- Like having an intern that will make mistakes; question and answer process

Generative AI: text (ChatGPT3)

sv

What publications has Marta Dyczok written



As of my knowledge cutoff in September 2021, Dr. Marta Dyczok is a Ukrainian-Canadian academic, author, and media commentator specializing in Eastern European politics and media. She has written extensively on various topics related to Ukraine and Russia. Here are a few of her notable publications up until that time:



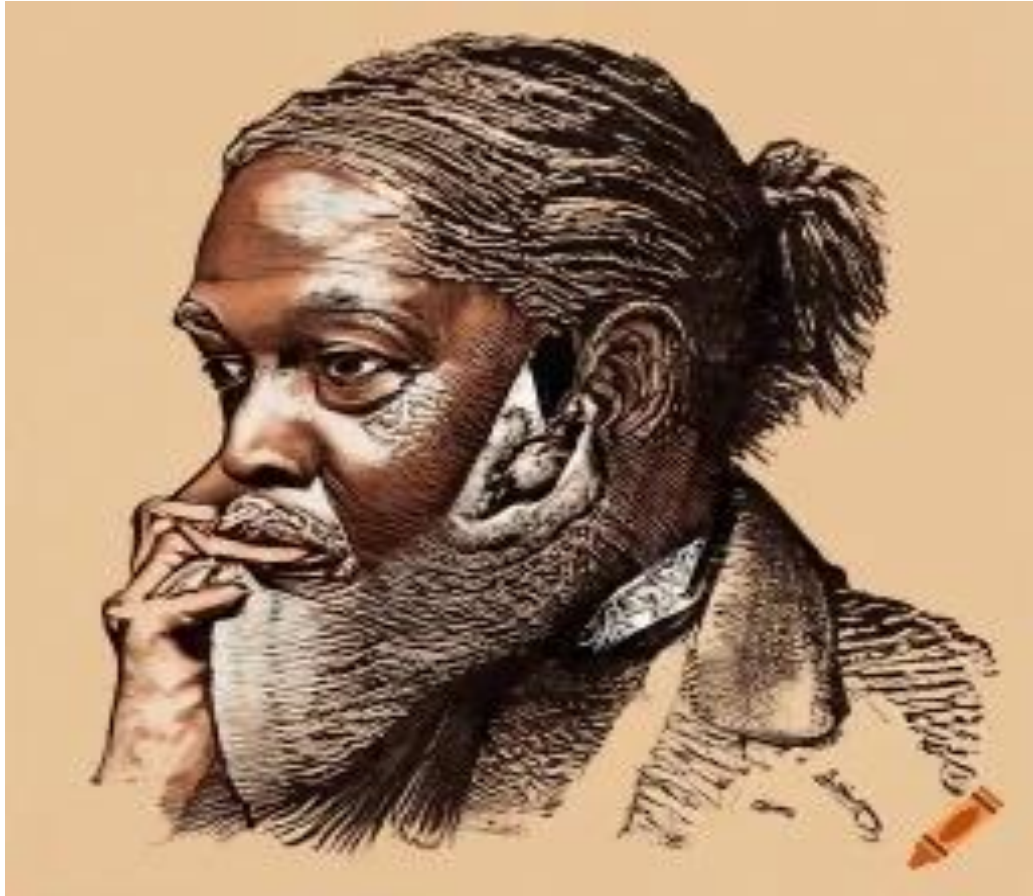
1. "Media, Democracy and Freedom: The Post-Communist Experience" (2009) - In this book, Marta Dyczok explores the relationship between media, democracy, and freedom in post-communist countries, with a focus on Ukraine.
2. "The Grand Alliance and Ukrainian Refugees" (2011) - This book delves into the experiences of Ukrainian refugees during World War II and the role of the Grand Alliance (United States, United Kingdom, and the Soviet Union) in their displacement and resettlement.
3. "Ukraine's Euromaidan: Broadcasting through Information Wars with Hromadske Radio" (2016) - In this publication, Dyczok examines the role of media, specifically Hromadske Radio, during the Euromaidan protests in Ukraine, providing insights into the challenges and strategies used by independent media in times of crisis.

Please note that this information is based on my training data, and there may be additional publications or updates by Marta Dyczok beyond my knowledge cutoff in September 2021.

Generative AI text to image: Craiyon



Craiyon: image of real person from 1800s using cellphone (technology that did not exist then)



Craiyon: fictional person from 1920s using cellphone (did not exist then, but telephone did)



Our plan

- Acceptable Use Policy (tested on personal device)
- Mock questions (veracity, bias, copyright, privacy)
- Evaluation criteria
- Effective prompts/Questions
- Guidelines for use
- Evolving quickly

Questions?



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