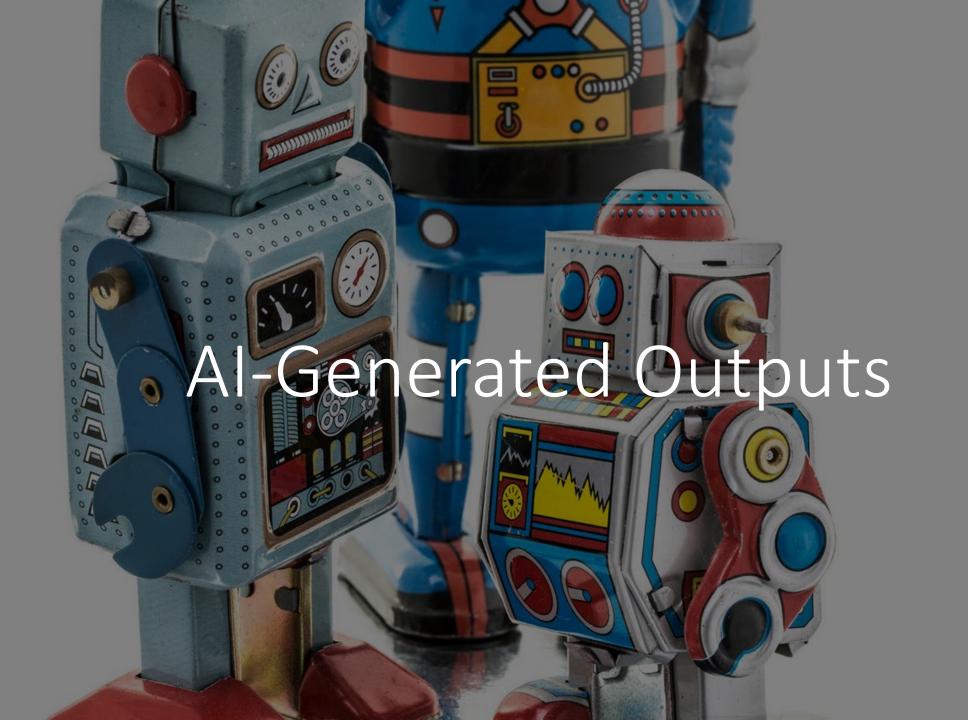


artificial intelligence, n.

The capacity of computers or other machines to perform tasks that typically require human intelligence such as reasoning, problem-solving, and decision-making

generative artificial intelligence, n.

Artificial intelligence designed to generate content, typically by using machine learning to extrapolate from large collections of training data



Text



Explain artificial intelligence in the style of Donald Trump

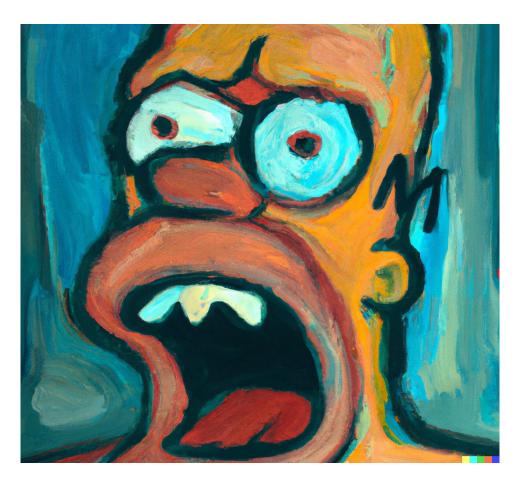


Listen folks, let me tell you about this thing called artificial intelligence, okay? It's tremendous, really tremendous. People are talking about it all over, believe me. So, artificial intelligence, they call it AI for short, and let me tell you, it's like having the best, the absolute best, brain for your computer. It's like having a super genius that's gonna make your computer do things you wouldn't believe, folks. It's gonna be huge for business, tremendous for jobs, and it's gonna make America win like never before. You won't even believe how smart these computers are gonna get, it's gonna be a game changer. So, AI, remember that name, because it's gonna be the future, the bright, incredible future. And let me tell you, nobody understands the future like I do, nobody.

Source: ChatGPT

Prompt: Explain artificial intelligence in the style of Donald Trump

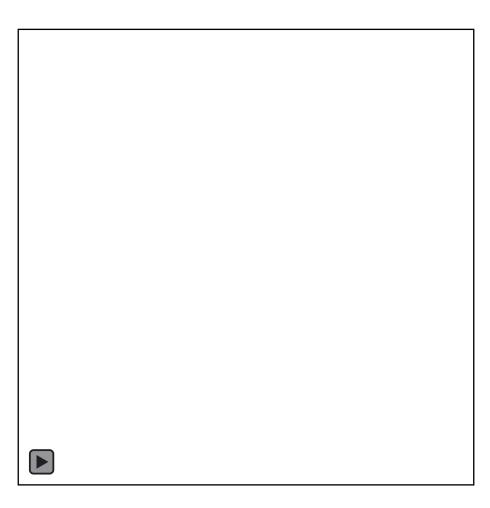
Images



Source: Dall-E 2

Prompt: Paint a portrait of Homer Simpson in the style of Edvard Munch's "The Scream"

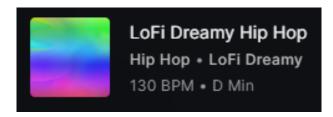
Video



Source: Kapwing

Prompt: Create a video explaining how to make a sandwich

Music





Source: Soundful

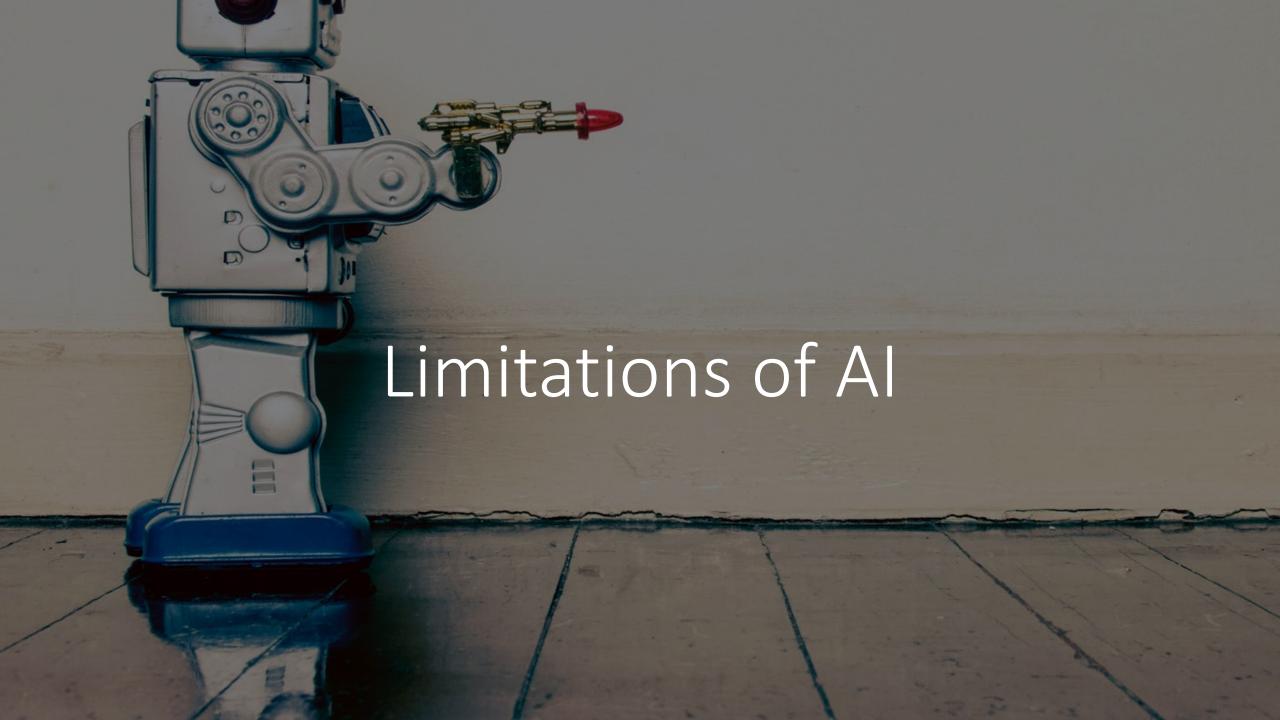
Prompt: LoFi dreamy hip hop

Code

```
* Create
Write a function in JavaScript
                                                            calculates BMI
                                                   that
 • • •
     * Calculates the Body Mass Index (BMI) based on the given weight and height.
     * @param {number} weight - The weight of the person in kilograms.
     * @param {number} height - The height of the person in meters.
     * @returns {number} The calculated BMI.
     * @throws {Error} Throws an error if the weight or height is not a positive number.
   function calculateBMI(weight, height) {
       if (weight <= 0 || height <= 0) {</pre>
           throw new Error("Weight and height should be positive numbers.");
```

Source: CodePal

Prompt: Write a function in JavaScript that calculates BMI



Ethical Concerns

- Bias and fairness
- Misinformation and manipulation
- Plagiarism and copyright
- Attribution and accountability
- Social and global inequality

Quality and Reliability

- Quality
- Consistency
- Superficiality
- Degeneration ("model collapse")

Data Privacy and Security

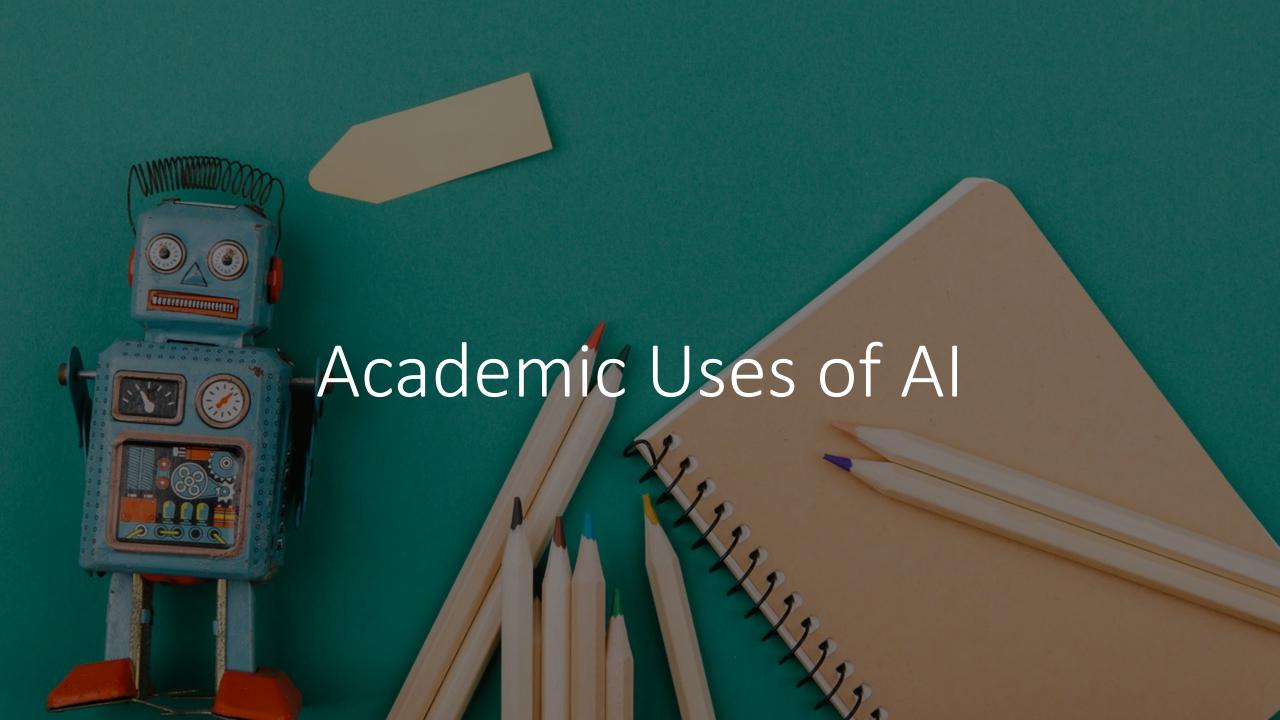
- Data exposure
- User privacy

De-skilling and Displacement

- Loss of traditional skills
- Job displacement
- Labor exploitation

Environmental Impact

High computational demands and energy consumption



Create a Syllabus

Prompt: Create a syllabus for a 15-week introductory, undergraduate-level sociology course that meets once a week for 90 minutes. The syllabus should outline the course objectives, topics, grading policies, guidelines for using generative AI, and expectations for student behavior and participation. The required textbook for the course is Anthony Giddens et al. Introduction to Sociology, 12th edition. For each week, suggest lecture topics, readings, and assignments based on the chapters of the textbook.

Design a Lesson Plan

Prompt: Design a ninety-minute lesson plan for an undergraduate American history course on the 1886 Haymarket Square Riot. The plan should include activities that help students understand the factors leading to the event, its consequences, and its relevance to the contemporary labor movement. It should also incorporate primary sources, classroom discussions, and multimedia resources designed to engage students in critical thinking and analysis.

Suggest Discussion Topics

Prompt: Generate five discussion prompts about Howard Zinn's A People's History of the United States for a graduate-level U.S. history course. Generate one prompt for each of the following topics discussed in the book: colonization, slavery, labor movement, black civil rights, and women's liberation. Each prompt should ask students to engage with at least one primary source about that topic.

Create a Quiz

Prompt: Create a 10-question multiple choice quiz for an undergraduate introductory physics course based on the following learning objective: Explain the properties of waves, including wavelength, frequency, amplitude, and velocity. Indicate the correct answer for each question.

Draft an Outline

Prompt: Create an outline for a 10-page academic research paper with the following research question: "To what extent does exposure to diverse political perspectives on social media affect individuals' political opinions and behaviors?"



Learning Objectives

- Engage in critical thinking by questioning the accuracy, bias, and potential manipulation of Al-generated information
- Recognize and address ethical dilemmas related to bias, misinformation, privacy, intellectual property, and accountability
- Evaluate information sources and distinguish between human- and Al-generated content
- Use AI tools effectively and responsibly, maximizing their benefits while minimizing risks
- Adapt to new AI technologies as they continue to evolve and participate in discussions about their societal impact

Al-Generated Paper Review

Provide students with a research paper that was partially or fully generated by AI. Ask them to critically review the paper, evaluating the clarity of the research question, methodology, data analysis, and conclusions. Have them identify any biases, inaccuracies, or inconsistencies in the paper. Ask students to compare the AI-generated work with human authored research and reflect on the reliability of AI-generated content in academia.

Al-Generated Abstract Analysis

Assign students to write abstracts for a selection of scholarly articles. Then provide them with a set of Al-generated abstracts and ask them to assess whether they accurately summarize the main points of the articles and provide a clear understanding of the research. Have students discuss the role of abstracts in academic writing and the limitations of Al in interpreting and summarizing complex topics.

Social Media Content Analysis

Give students examples of Al-generated social media posts, comments, or messages. Ask them to analyze the language, style, and relevance of the content. Have students discuss the potential consequences of Algenerated social media interactions, such as the spread of misinformation, influence on public opinion, and the erosion of authentic online communication.

Ethics of Al Content Generation

Present students with scenarios where AI-generated content could have ethical implications, such as deepfake videos, derivative art works, or targeted advertising based on personal user data. Ask students to identify potential ethical concerns and consider the social, legal, and cultural implications of using such AI-generated content. Encourage them to propose guidelines or regulations to address these concerns.



For more information, examples, and suggestions for further reading, check out our guide to artificial intelligence at: https://libguides.rutgers.edu/artificial-intelligence/



Rutgers University / Research Guides / Artificial Intelligence (AI) / Introduction

Artificial Intelligence (AI)

An introduction to generative AI and its use in teaching, research, and publishing.

Introduction
Al Defined
Limitations of AI
Frequently Asked
Questions
Types of Generative AI
Al Prompt Writing
Al in Teaching
Al in Research

Al Defined

Artificial intelligence (AI) refers to the capacity of computers or other machines to perform tasks that typically require human intelligence such as reasoning, problem-solving, and decision-making. AI systems use algorithms and computational techniques to process large volumes of data, extract patterns, and make predictions or decisions based on those patterns.

Generative artificial intelligence is a specific subset of AI focused on creating content such as text, images, video, music, and other outputs in response to user input (or prompts). Generative AI models are designed to learn the patterns and structure of their input training data and generate new data with similar characteristics. Because generative AI tools can quickly and easily generate a wide variety of human-like outputs, they have the potential to radically transform the way we approach content creation across a wide range of domains and industries. However, because AI outputs are derived from undocumented data sources, infringe on intellectual property, and are prone to error, they are also