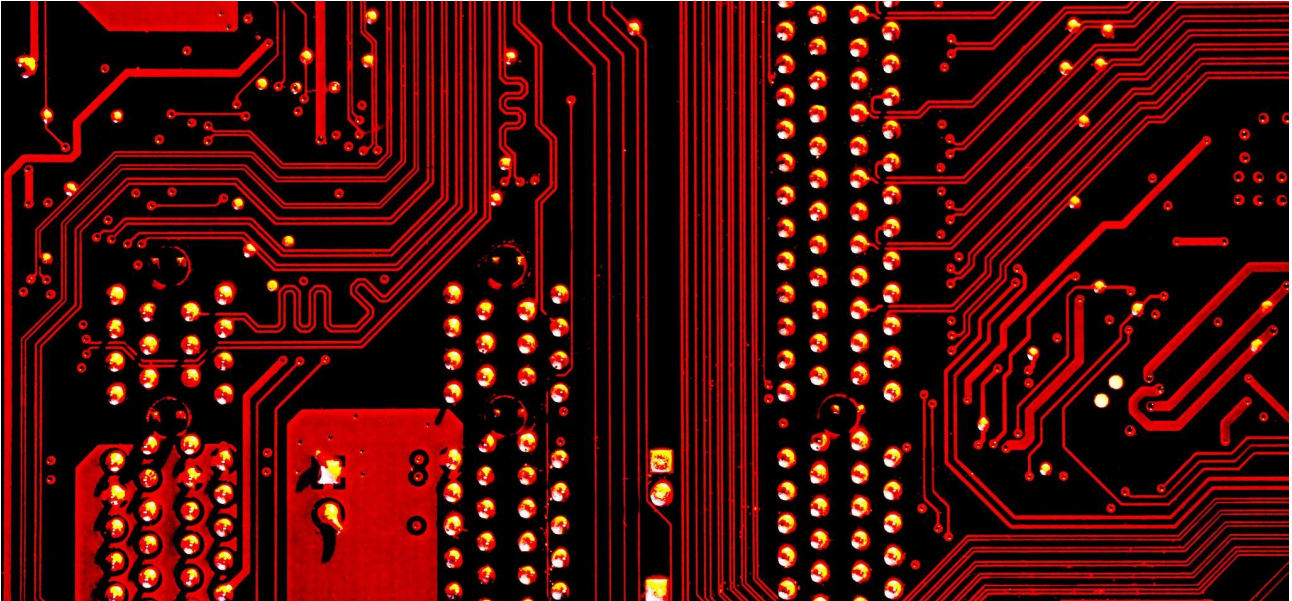


Artificial Intelligence



Facilitation Protocol

Standards

Intellectual Humility;

-> that is, the ability to doubt one's own knowledge without discrediting what one has already learned;

SDG Connection: 4

Format

This lesson is designed for small group, and/or full class discussions to occur over 1-2 50-minute sessions.

Materials

- ["Fake" or "Real" Document](#)
- (Optional) [Access to OpenAI](#) - requires an email and phone number to register. [Otherwise, here are example stories to utilize.](#) Alternatively, the instructor can make an account on OpenAI and show this method to the class.

Purpose

In this lesson, we will be discussing artificial intelligence (AI). AI is the process of programming a computer to make decisions for itself. This can be done through a number of methods, including but not limited to: rule-based systems, decision trees, genetic algorithms, artificial neural networks, and fuzzy logic systems.

Introduction

In the past decade, there has been an explosion of interest in artificial intelligence (AI) and its potential to transform numerous industries, including journalism. Although AI has been used in journalism for some time in the form of computer-assisted reporting, its capabilities have expanded significantly in recent years, opening up new possibilities for automated content generation.

There are a number of reasons why AI is well-suited to writing articles. First, AI can process large amounts of data very quickly, making it possible to analyze large datasets that would be too unwieldy for humans. Second, AI can identify patterns and trends that humans might miss. And third, AI can generate text that is largely free of errors, making it an attractive option for time-strapped editors and publishers.

Despite these advantages, there are also a number of challenges associated with AI-generated content. One of the most significant challenges is ensuring that the content is accurate and reliable. AI systems are often only as good as the data they are trained on, which means that errors can be introduced if the training data is of poor quality.

Another challenge is ensuring that AI-generated content is interesting and engaging. Although AI systems can generate text that is technically accurate, it can sometimes be dry.

How can artificial intelligence be used to improve writing?

Some ways that artificial intelligence can be used to improve writing are by providing suggestions for grammar and style, helping to plan and organize ideas, and creating outlines or first drafts of documents.

What are the potential benefits and risks of artificial intelligence?

Some potential benefits of writing with artificial intelligence include increased efficiency and accuracy. Potential risks include errors in the artificial intelligence system and dependence on the artificial intelligence system.

Consider This

Now, we will access and try out modern AI tools ourselves. Using the provided print copies or the actual digital tool, do the following:

To register and use the [ChatGPT/OpenAI playground](#), you will need to create an account on the OpenAI website. Once you have created an account, you will be able to log in and access the playground.

At this point, pass out the print version of OpenAI responses, or have students create their own account on the OpenAI website. Note that a phone number is needed to register. Note: the instructor can also model how OpenAI works through their own account. There is (generous) limit on how much you can use this tool before a paywall is introduced.

Use the tool to write a story.

The best way to use OpenAI to write a story will vary depending on the specific story you want to tell. However, some tips on how to use OpenAI to write a story include:

- Start by thinking about what kind of story you want to tell, and what kind of message you want to communicate.
- Think about what kind of data would be necessary to train a machine learning model to write your story. This could include things like character dialogue, plot points, or descriptive passages.
- Once your machine learning model is trained, you can use it to generate your story. You may need to tweak the generated text to ensure that it tells the story you want to tell, but the overall process of using OpenAI to write a story is relatively simple.

Write a convincing story about Simon, the gorilla.

Simon was born in the wild, but his family was killed by hunters when he was young. He was captured and sold to a zoo, where he lived for many years.

He was always the largest and strongest gorilla in the zoo, and the other gorillas looked up to him. He was a gentle giant, and he loved to play with the children who came to visit the zoo.

One day, Simon saw a little girl climbing into his enclosure. He was afraid she would be hurt, so he tried to scare her off by beating his chest and roaring. But the little girl just laughed and kept coming closer.

Simon realized that she wasn't afraid of him, and that she just wanted to be friends. He was so happy that he hugged her, and they became best friends.

The girl would visit Simon every day, and they would play and talk together. Simon was happy to have a friend, and he loved her very much.

One day, the girl didn't come to visit. Simon was sad and lonely, and he missed her very much.

Insert your AI-created story here:

What are some benefits of using AI for creative writing?

Some benefits of using AI for creative writing include the ability to generate new ideas, improve grammar and style, and speed up the writing process.

What are some drawbacks of using AI for creative writing?

Some drawbacks of using AI for creative writing are that it can be difficult to create interesting and believable characters, and the plot may be less interesting than if it were written by a human. Additionally, AI-generated stories may be less emotionally engaging than those written by humans.

How can AI be used to improve the quality of creative writing?

Some ways that AI can be used to improve the quality of creative writing are by using AI to help with grammar, spelling, and punctuation. AI can also help with brainstorming ideas and providing feedback on writing.

What are some ethical concerns associated with using AI for creative writing?

Some ethical concerns associated with using AI for creative writing are that it could be used to create false or misleading content, to plagiarize others' work, or to make automated decisions about what content to publish.

How would you feel about a book that was written by AI?

Narrow it Down

Have the students close their eyes and think of a written piece they have read before. It can be anything from a short story to a news article. Once they have something in mind, have them open their eyes and write down as many characteristics of the writing as they can remember. After they are done, have them share their piece with the class.

What are the characteristics of writing? How do we know if something is real?

[Example writings can be found here.](#) An answer key is found at the bottom.

There are a few ways to convince students that not all of these stories are written by AI. One way would be to point out that some of the stories are clearly not written by AI, such as the ones with grammatical errors or that are very short. Another way would be to have students read the stories and try to identify which ones were written by AI and which ones were not.

Ask the students to raise their hand if they think their piece was AI generated or not. After they have all guessed, reveal which pieces were AI generated and which were not. Finally, discuss with the students what characteristics they think make writing sound like it was written by AI.

What does it say about AI that it can write like humans?

There is no one answer to this question as it depends on the opinion of the person asked.

Some people may view it as a positive sign that AI is becoming increasingly sophisticated and is able to replicate human writing. Others may view it as a negative sign, arguing that AI is becoming too powerful and may eventually surpass human intelligence.

What does it say about humans that we can't tell the difference between writing by an AI and writing by a human?

There is no definitive answer to this question as it is subjective. However, some people may say that it says something about humans that we can't tell the difference between writing by an AI and writing by a human because it shows that we are not as intelligent as we think we are. Additionally, it could also be argued that it says something about humans that we can't tell the difference between writing by an AI and writing by a human because it shows that we are not as good at detecting patterns as we think we are.

Get This!

Outside of areas highlighted in GREEN, hyperlinks, formatting, and the following text, this entire lesson was written using AI prompts (shown below). Yes, even the activities were created using AI! (Also, we wrote most of the facilitator notes and *all* student example responses using AI!)

Write an introduction about AI writing articles. In the past decade, there has been an explosion of interest in artificial intelligence (AI) and its potential to transform numerous industries, including journalism. Although AI has been used in journalism for some time in the form of computer-assisted reporting, its capabilities have expanded significantly in recent years, opening up new possibilities for automated content generation. There are a number of reasons why AI is well-suited to writing articles. First, AI can process large amounts of data very quickly, making it possible to analyze large datasets that would be too unwieldy for humans. Second, AI can identify patterns and trends that humans might miss. And third, AI can generate text that is largely free of errors, making it an attractive option for time-strapped editors and publishers. Despite these advantages, there are also a number of challenges associated with AI-generated content. One of the most significant challenges is ensuring that the content is accurate and reliable. AI systems are often only as good as the data they are trained on, which means that errors can be introduced if the training data is of poor quality. Another challenge is ensuring that AI-generated content is interesting and engaging. Although AI systems can generate text that is technically accurate, it can sometimes be dry.	Write the start of a lesson about AI. In this lesson, we will be discussing artificial intelligence (AI). AI is the process of programming a computer to make decisions for itself. This can be done through a number of methods, including but not limited to: rule-based systems, decision trees, genetic algorithms, artificial neural networks, and fuzzy logic systems.
How can I use OpenAI to write a story? There is no one-size-fits-all answer to this question, as the best way to use OpenAI to write a story will vary depending on the specific story you want to tell. However, some tips on how to use OpenAI to write a story include: • Start by thinking about what kind of story you want to tell, and what kind of message you want to communicate. • Think about what kind of data would be necessary to train a machine learning model to write your story. This could include things like character dialogue, plot points, or descriptive passages. • Once your machine learning model is trained, you can use it to generate your story. You may need to tweak the generated text to ensure that it tells the story you want to tell, but the overall process of using OpenAI to write a story is relatively simple.	Write questions about the use of AI for creative writing. 1. What are some benefits of using AI for creative writing? 2. What are some drawbacks of using AI for creative writing? 3. How can AI be used to improve the quality of creative writing? 4. What are some ethical concerns associated with using AI for creative writing? 5. How would you feel about a book that was written by AI?
Write an activity where students guess whether or not writing is real or written by AI. Assuming the students have some background knowledge on AI and its capabilities, have the students close their eyes and think of a written piece they have read before. It can be anything from a short story to a news article. Once they have something in mind, have them open their eyes and write down as many characteristics of the writing as they can remember. After they are done, have them share their piece with the class. Once everyone has shared, explain that some of the writing they just heard was AI generated, and some was not. Ask the students to raise their hand if they think their piece was AI generated or not. After they have all guessed, reveal which pieces were AI generated and which were not. Finally, discuss with the students what characteristics they think make writing sound like it was written by AI.	Write questions that reflect on the fact that all of the writing that was shared was written by an AI. 1. What does it mean that all of the writing was written by an AI? 2. What does it say about AI that it can write like humans? 3. What does it say about humans that we can't tell the difference between writing by an AI and writing by a human?

Now that you've completed a lesson ostensibly written by AI...what do you think? Is this surprising to you? Did you think an AI would be capable of this?

Is this legitimate practice? As in, is it just as valid for someone to create resources using AI as it would have been to create it manually? Is it ethical to rely on AI to create materials? We had to feed the AI prompts. However, almost everything was written on OpenAI.

An interesting discussion can occur in *any* of these questions regarding the use of AI as a tool vs. cheating or plagiarism. If this AI can be used in legitimate ways, how does this transform the classroom? How can this be used as a legitimate tool?

Does this make you think any differently about the future of AI? What applicability could this have?

What else do you wonder about AI? What do you imagine may happen in the future?

Reflect

How would you rate your understanding of this concept? <i>Place an "X" in the corresponding box below.</i>				
				

How has your understanding of this concept changed as a result of this lesson?

--

Which individual or community actions could this activity inspire?

--

Why would it be important to realize that AI can write content? How does this change the world?

--

Take it Further (Editor's note: the Take it Further and Extend sections are ALSO written by AI!)

Take Action One could explore the ethical implications of AI from a number of different angles. For example, one could consider the impact of AI on employment, specifically whether or not AI will lead to mass unemployment as machines increasingly take on tasks that have traditionally been done by human beings.	Community Connection Design a community space for people to learn about and discuss AI. The space could include a library of resources on AI, a place for people to share their experiences with AI, and a space for experts to share their knowledge about AI.	Take Action In this project, someone will learn about programming AI. They will start by learning the basics of AI programming, including the different types of AI, the history of AI, and the different applications of AI. They will then move on to learning more specific topics, such as machine learning, natural language processing, and computer vision. Finally, they will put what they have learned into practice by creating a simple AI program.
--	--	--

Media

<u>OpenAI Playground</u> (Resource) Explore the templates in the top right of the featured website, including Q&A, translation, and other AI-driven tasks. Machine learning goes beyond writing!	<u>A World Without Work</u> (Book) "From mechanical looms to the combustion engine to the first computers, new technologies have always provoked panic about workers being replaced by machines. For centuries, such fears have been misplaced, and many economists maintain that they remain so today. But as Daniel Susskind demonstrates, this time really is different. Breakthroughs in artificial intelligence mean that all kinds of jobs are increasingly at risk."	<u>Talking Machines</u> (Podcast) "Talking Machines is your window into the world of machine learning. Your hosts, Katherine Gorman and Neil Lawrence, bring you clear conversations with experts in the field, insightful discussions of industry news, and useful answers to your questions. Machine learning is changing the questions we can ask of the world around us. Here, we explore how to ask the best questions and what to do with the answers."
--	---	---

Extend

Language Arts Students will be conversing with AI using this website. They will first read a conversation between a human and AI, and then they will have a conversation with AI themselves. They will need to think of questions to ask AI, and AI will respond accordingly. This lesson will help students understand how AI works and how it can be used in conversation.	Mathematics How can artificial intelligence be used to improve our understanding of mathematics? One way AI can be used to improve our understanding of mathematics is by providing a way to visualize mathematical concepts. For example, consider the concept of a function. AI can be used to create a 3D graph of a function, which can help us to better understand how the function behaves. Additionally, AI can be used to create models of mathematical problems, which can help us to better understand the underlying principles at work.
Science One way students could learn about the ethics of AI is by reading articles or watching videos on the topic. Additionally, they could participate in discussions with their peers or teachers about the ethical implications of AI. Finally, students could also explore case studies that examine how AI has been used in the past and the ethical implications of those uses.	Social Studies In order to learn about the history of AI, students could read about the early days of computing and the development of the first computers. They could also read about the development of the internet and the ways that AI has been used to improve search engines and other online services. Additionally, students could research the different applications of AI that have been developed over the years, such as expert systems, natural language processing, and machine learning.
Art In the past, creating art has been a largely manual process, with artists using their hands and tools to create pieces. However, with the advent of artificial intelligence (AI), there is now the potential for students to use AI in order to create art. There are many websites students can use to create AI art, but some of the more popular ones include: -Google's DeepDream Generator -DeepArt -Artbreeder	Physical Education (Create a workout routine based on artificial intelligence. Is it safe?) 1. Start by warming up with some light cardio to get your heart rate up and blood flowing. 2. Then, do some dynamic stretching to loosen up your muscles. 3. Next, choose a few exercises that you would like to do and input them into the AI. 4. The AI will then create a custom workout routine for you based on your goals and abilities.

-AI Art Gallery	5. Finally, cool down with some light stretching and cardio.
-----------------	--