



What is AI?

Description:

Prerequisites

- None

Details

- 1 hour activity
- Ages 8-13

Learning Objectives

Script

Instructor: Today we will be talking about artificial intelligence. Have you heard this word before? What do you think it means? What does it make you think of? Write your answers in the chat or unmute yourself to share.

[give students time to answer]

Instructor: So most people think of artificial intelligence as robots. Does anyone recognize these robots here? Which one is your favorite?

[give students time to answer]

Instructor: Robots are my favorite type of AI, but they aren't the only type. AI is actually present in many technologies that we use every day. For example, it is



found in YouTube, in text messaging, our instagram and tiktok feeds, and in camera filters.

Instructor: AI is defined as "Making computers perform "intelligent" tasks such as recognizing things, understanding them, and making decisions about them." AI can be categorized as something that uses data to make a prediction about something. Let's explore that more.

Instructor: Most types of Machine Learning algorithms can be broken down into 3 parts. A Dataset, a learning algorithm, and a prediction. We'll go more into detail to each one of these. The goal of an algorithm is to make a prediction about something.

Has anyone heard of a dataset before? What does it make you think of?

[students answer]

Instructor: A dataset is a collection of data that you put together. Data can include anything! We typically think of data as numbers, but it could also be a collection of text, video, or images. So, a dataset gets fed into a learning algorithm in order to make a prediction. Does anyone know what an algorithm is?

[students answer]

Instructor: An algorithm also includes three parts: input, steps to change the input, and then output. For example, adding a contact to your phone is kind of like an algorithm. You take a contacts name and phone number, you put it into your address book, and you get out a new contact.

The last part of AI is a prediction. This can be anything such as what YouTube video you might like or what a face is for a filtering app.



Let's put it all together with some examples!

[Walk through instagram example]

[Walk through email spam example]

Instructor: Now that we know what AI is, let's play a game of AI or Not! We'll go through some examples together, and then you'll work on your own.

[go through examples]

Instructor: Awesome! Now let's go to activity #3 in Google classroom. You'll open up a google drawing and move the technologies around based on if they are AI or not. When you finish that, you can go back to Activity #2 and explore the QuickDraw tool on Slide 4 and 5.

[if it is not 10.30 am yet]

Instructor: Great! Now that you have played around a bit with quickdraw, can anyone tell me if they think Quickdraw is AI or not?

[let students answer]

Instructor: Yes, quickdraw is a type of AI. Can anyone tell me what type of dataset it uses?

[let students answer]

Instructor: It uses a dataset of all of the images drawn of a particular object. What is it trying to predict?

[let students answer]

Instructor: It's trying to predict what you are drawing. Great job everyone! I hope you had fun playing quick draw.



Activity Usage

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