

What is AI?

Before we get started, let's jot down a few of your current impressions about AI.

- What do you think artificial intelligence (AI) is? Discuss with your group and write down five words that you think of when you hear “artificial intelligence”.








- Can you think of any examples of AI technologies? These may be technologies you have used or real or fictional technologies you have seen elsewhere (e.g. on TV, in movies, in the news). Write down some examples below.

- How do you feel about AI? Discuss with your group and write down three words/phrases that you think describe your feelings.

Have you ever interacted with artificial intelligence (AI) before?

- **Look** through the **AI EXAMPLE** card deck and **pick out** cards with technologies that you have interacted with before. Feel free to write-in or draw any technology that is not in the card deck.

- Now look at the cards you chose. **Glue** and arrange them below according to how you feel about each one.

Trust	
Worry	
Surprise	
Sadness	
Anger	
Curiosity	
Optimistic	

Let's do a step-by-step activity now to learn a little bit more about how AI works. On this page, you're going to design your own imaginary AI that takes an **input**, processes it using an **algorithm**, and expresses an **output**. Your imaginary AI can be bizarre or non-sensical—it does not have to be useful or practical.

1 Step 1: Data Input

Most AI learn from **data**. This data can come from **sensors**, such as cameras, noise sensors, or light sensors. It can also be provided in the form of a **data set**, or a “collection of curated data”¹ such as images, songs, numbers of views, or texts.

- **Look** through the **SENSOR** and **DATASET** card decks and choose a dataset and/or sensor to act as the input for the imaginary AI technology you are designing.
- **Glue** the card(s) you select on the next page.

2 Step 2: Algorithm

Once AI have data to work with, they make sense of this data using an algorithm. An **algorithm** is “a set of instructions that turns something (an input) into another thing (an output). A sandwich-making algorithm, for example, would turn a bunch of ingredients (bread, peanut butter, and jelly) into a delicious lunch (a PB&J sandwich)”¹.

- **Look** through the **ALGORITHMS** card deck and choose an algorithm that will process the input data for your imaginary AI technology.
- **Glue** the card you select on the next page.

3 Step 3: Output

The **output** of an AI algorithm can come in many forms. Some AI devices use physical devices like motors, lights, or speakers to act on the world. Other AI technologies have outputs that look more like decisions or predictions about what song you will like or whether you will enjoy an advertisement.

- **Look** through the **OUTPUT** card deck and choose a device or method that your AI can use to share its results with the world
- **Glue** the card you select on the next page.

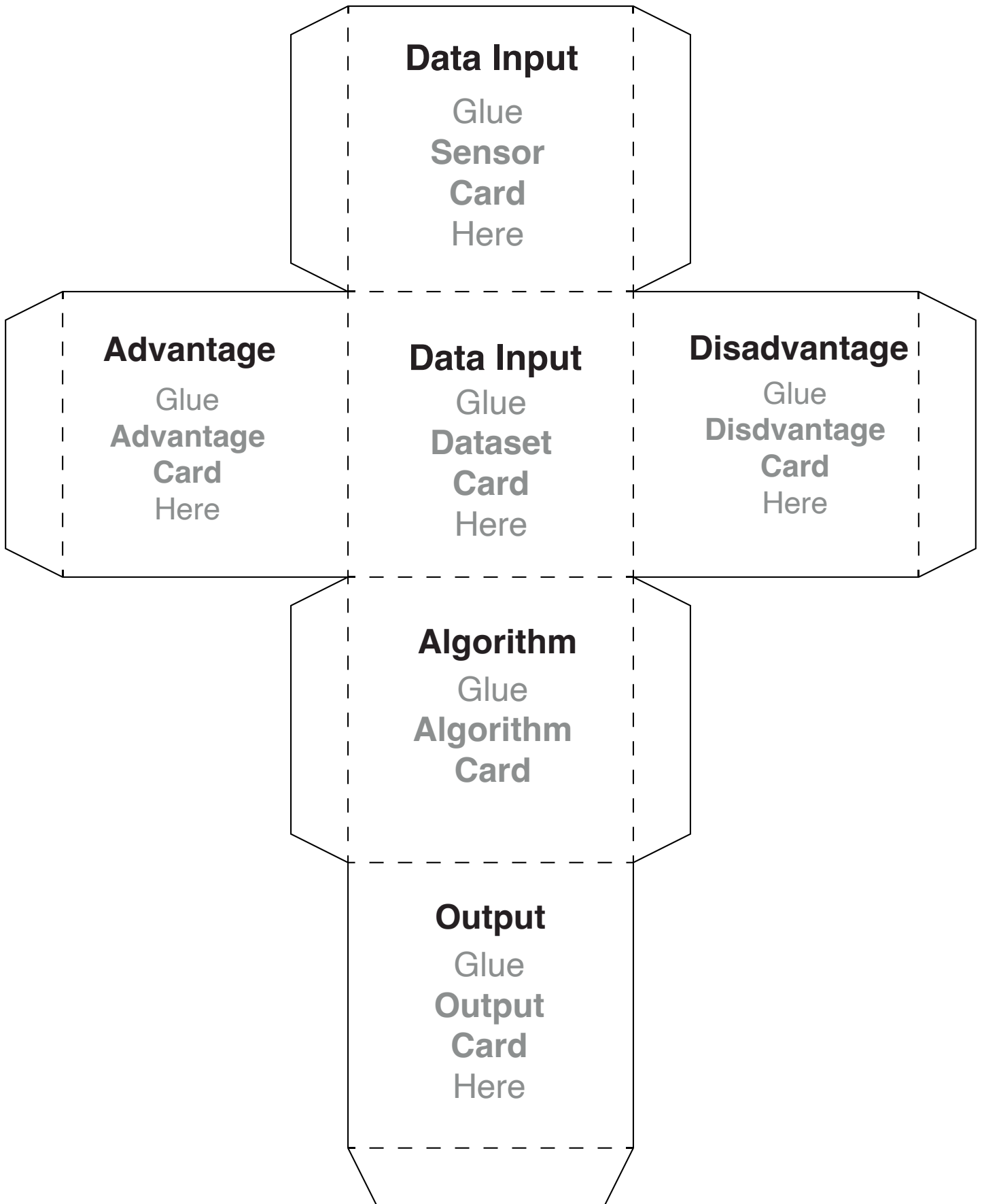
4 Step 4: Advantage and Disadvantage

While artificial intelligence has many benefits, there are also drawbacks.

- **Look** through the **Advantages and Disadvantages** card deck and choose two of them which your AI has.
- **Glue** the cards you select on the next page.

5 Step 5: Make Your Imaginary AI Cube

- **Cut** along the outside edges of the shape.
- **Fold** the paper along the lines.
- **Glue** all of the sides together, and you're done!.



6 Step 6: Pass Your Imaginary AI Cube to Your Friend

- Compare what you've done together!