

Worksheet

Introduction to AI



Little detection game

1 Do you know which of these two images is generated by artificial intelligence? Try to outwit the program.

1.1 How many artificial images did you manage to identify, and over how many attempts?

..... achieved / attempts

1.2 After a few attempts, identify at least 2 features that enable you to recognize an AI-generated image.

1

2

Worksheet

Introduction to AI



Teachable Machine

2

Digital challenge: Create your first machine learning model to better understand how an AI works. You have to teach an AI when you smile or have a sad expression.

Let's start !

2.1

Choose: Project images.

2.2

Select: Standard image template.

2.3

Name your two categories (class).

- Class 1 will be **smiling**.
- Class 2 will be **sad**.

Worksheet

Introduction to AI



Teachable Machine

2.4

Accumulate data. By clicking on the webcam, take dozens of photos of yourself smiling.

The more photos you take, the more data you accumulate, the more efficient your AI will be. Do the same thing with class 2 and take pictures of yourself looking sad.

- Then train your model. Be patient and wait a few seconds.
- Test your model

2.5

Test a new model and be creative!

Worksheet

History of AI



AI See You

Let's play with artificial intelligence.

ANN is trained to recognize your facial expressions. She tries to associate them with an emotion.

Try to make her guess the following 6 emotions:

- joy
- sadness
- surprise
- fear
- disgust
- horror

Quiz

Answer the 3 questions about the history of AI!

Worksheet

AI and poetry



How does it work ?

1 What are the two main sets of algorithms today?

1

2

2 Can you tell me what differentiates them ?

.....
.....
.....

Worksheet

AI and poetry



Little generation game

1 Verse by verse: Create a poem inspired by the greatest American poets of the 19th century. The game is in English, but you can use a translation app to help you.

1.1 To create a masterpiece, choose three artists who inspire you.

1.2 Choose a poetic form

Quatrain The quatrain is a poem whose stanzas are composed of 4 lines.

Couplet A couplet is a poem whose stanzas are composed of two lines.

Free verse There are no rules for free-form poems.



Worksheet

AI and poetry



Little generation game

1.3 Choose the number of syllables.

1.4 Choose the rhyme style. You have 5 choices, and they represent how you want your lines to end.

1.5 Start your poem and select or not your verse choices.

1.6 When your work is complete, you can download it.

2 RYTR: generates text like ChatGPT. I invite you to create different text tones and play with the parameters.

3 Inferkit is an algorithm that completes your texts.

Worksheet

AI and poetry



Text AI

Text AI generates texts from your ideas.

These texts can take inspiration from a variety of sources, including a short story format or Quebec poetry. Each style has its own BelGPT-inspired template.

We've worked very hard to specialize our application on French-language literary works.

- 1 Write a sentence.
- 2 Let the engine analyze it.
- 3 Play with the different options to create your own design.

Worksheet

AI and visual art



Let's start with a game

1

Quickdraw

Try to make the drawing requested so that the algorithm can identify it. You have 30 seconds to succeed.

2

Magic sketchpad

Draw with a machine. Choose an object or character and start drawing. The machine will complete it.

Worksheet

AI and visual art



Visual AI

Visual AI lets you explore the concept of image generation by mixing several images together.

- 1 Choose 2 images that the algorithm will merge.
- 2 You can adjust the options to change the possibilities.
- 3 Upload or share your work.

Worksheet

AI and ethics



Cognitive bias

1 Choose one of the following biases.

Confirmation bias: This is the unconscious tendency to seek out information that confirms our beliefs and to ignore information that contradicts them.

Selection bias: When pooling data for training, a selection is made which can never fully represent the target audience.

Historical bias: This is the reproduction of known real-world inequalities.

2 In a brief paragraph, explain the challenges of your bias in relation to artificial intelligence. Then, suggest a solution to reduce its impact in the future.

Worksheet

Ai and ethics



Moral machine

Let's sharpen your moral compass with Moral Machine.

This experiment was created by MIT, the Massachusetts Institute of Technology. Each user contributes to a dataset that will be used to program robots and autonomous vehicles.