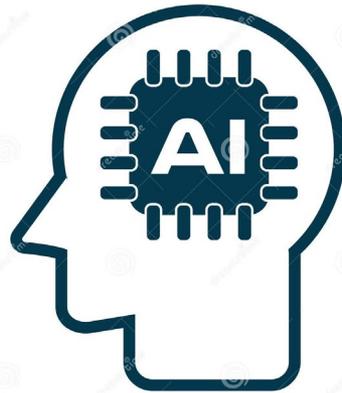


# *Integrating AI Tools into Teaching Practice: Unleash the Potential of Your AI Co-pilot*



*Chaonan (Elaine) Xu*

*email address: Chaonan.Xu@xjtlu.edu.cn*



Xi'an Jiaotong-Liverpool University

西交利物浦大學

# A quick question

1. Do you use any AI tools in your classroom?
2. Why do you use them?

:Padlet

ChaonanXu • 1m

**?** Write your discussion question here...

Add your response to the discussion question above.

ChaonanXu 19m



Why do you use AI tools in your classroom?

0 0



Password

FOE2024

# Overview

- Introduction
- The role of AI tools in education
- Challenges and solutions
- Integrating AI tools into teaching practice
  - ERNIE Bot
  - ElevenLabs
  - ClassPoint
- Conclusion



# 1

# Introduction



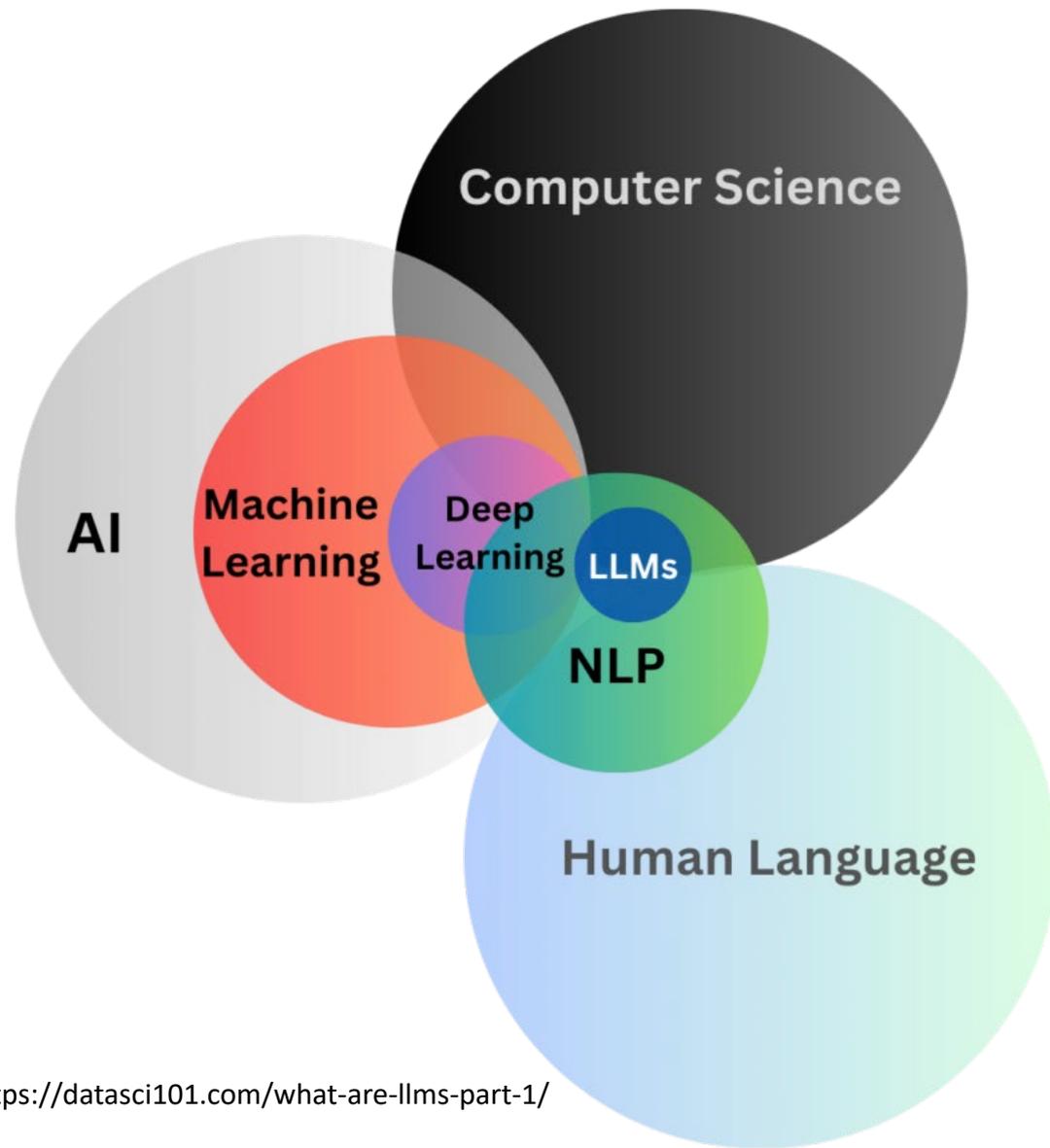


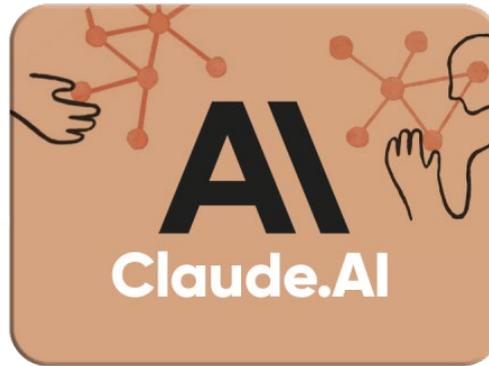
image from: <https://datasci101.com/what-are-llms-part-1/>



# THE RISE OF CHATBOTS



ChatGPT



ERNIE Bot



BING CHAT



# 2

## The Role of AI Tools in Education





AI generated



# For teachers

- alleviate pressures & streamline workload [1]
- improve administrative efficiency, instruction quality & the overall student learning experience [2]



# For students

- a catalyst for self-directed learning
- facilitate personalized & adaptive learning
- better academic performance
- improve teacher-student rapport
- foster student engagement and collaboration

see [2][3][4][5][6]





AI restored

image from: <https://www.alpa.org/news-and-events/air-line-pilot-magazine/two-pilots-always-flight-deck>

Captain  
↑  
Teachers

Co-pilot  
↑  
AI



# 3

## Challenges and Solutions



## Digital disparity

- Challenge: unequal access to technology
- Solution: essential utilities + informed stewardship

## Digital literacy

- Challenge: AI literacy
- Solution: comprehensive knowledge + a diverse skill set

## AI Misuse

- Challenge: over-reliance on AI
- Solution: a set of ethical guidelines



# 4

# Integrating AI Tools into Teaching Practice



# Scenario 1. Making crossword puzzle wordlists

## Purpose:

- expand vocab range
- improve spelling skills
- increase knowledge base
- strengthen social bonds



# Scenario 1. Making crossword puzzle wordlists

➤ Need:



<https://puzzlemaker.discoveryeducation.com/criss-cross>

➤ Procedure:

- 1. Select vocab
- 2. Create wordlist: **word + part of speech + definition**
- 3. Enter & Run
- 4. Double-check
- 5. Print worksheet & answer key

↖ **AI tool**



**Prompt:** Here is a list of words: [insert the vocab]. First, show the part of speech of each word in the bracket (); and then give definitions of the words for students at CEFR [insert students' language proficiency] level.



Here is a list of words: psychologist, perfectionist, rational, nonsense, affect, trick, regret, filter, tempt, paradox, crave, routine, reward, blame, experiment, schedule. First, show the part of speech of each word in the bracket (); and then give definitions of the words in English for students at CEFR B1 level.



- (1) psychologist: N (noun) - a person who studies the mind and behavior.
- (2) perfectionist: N (noun) - a person who is very demanding and expects everything to be perfect.
- (3) rational: A (adjective) - based on reason or logic; sensible and logical.
- (4) nonsense: N (noun) - words or ideas that are not sensible or meaningful.
- (5) affect: V (verb) - to have an effect on someone or something.
- (6) trick: N (noun) - a clever or deceitful method used to fool or deceive someone.
- (7) regret: V (verb) - to feel sorry or sad about something that has been done or not done.
- (8) filter: N (noun) - a device or tool used to remove impurities or refine liquids or gases.
- (9) tempt: V (verb) - to try to persuade someone to do something by offering them a tempting reward or advantage.
- (10) paradox: N (noun) - a statement or situation that seems to be true but is also contradictory or impossible.
- (11) crave: V (verb) - to have a strong desire or longing for something.
- (12) routine: N (noun) - a fixed or regular pattern of behavior or way of doing things.
- (13) reward: N (noun) - something given as a result of good behavior or achievement.
- (14) blame: V (verb) - to attribute responsibility for something that has gone wrong.
- (15) experiment: N (noun) - a scientific test or trial designed to investigate a particular phenomenon or effect.
- (16) schedule: N (noun) - a plan or timetable for arranging or carrying out activities or tasks.

**ERNIE Bot**



# PUZZLEMAKER

CREATE YOUR OWN PUZZLES



Puzzlemaker is a puzzle generation tool for teachers, students and parents. Create and print customized word search, criss-cross, math puzzles, and more-using your own word lists.

## Criss-Cross Puzzle

To create your criss-cross puzzle, follow the steps below and click the "Create My Puzzle" button when you are done.

### STEP 1.

Enter a title for your puzzle

The title will appear at the top of your page. (49 characters or fewer.)

### STEP 2.

Enter your words and clues

On each line enter a word followed by a space and then the clue for that word.

[Fill with Sample Data](#)

3000 of 3000 words remaining

### STEP 3.

Show instructions

Check this box if you want instructions to appear below the puzzle.

Create My Puzzle

CONSERVATION STATION **Iron** Discovery EDUCATION

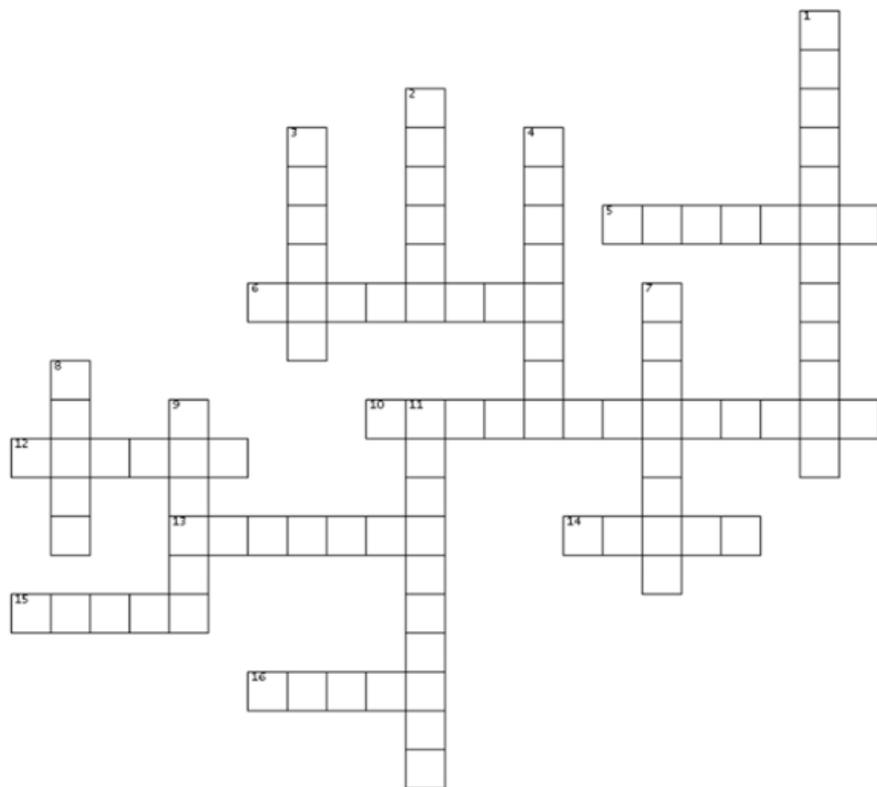
Take students on a virtual field trip

[Learn More](#)

my Digital Life



Inspire the Digital Citizen in Every Student



## ACROSS

5. N (noun) - a statement or situation that seems to be true but is also contradictory or impossible.
6. N (noun) - a plan or timetable for arranging or carrying out activities or tasks.
10. N (noun) - a person who is very demanding and expects everything to be perfect.
12. N (noun) - a device or tool used to remove impurities or refine liquids or gases.
13. N (noun) - a fixed or regular pattern of behavior or way of doing things.
14. V (verb) - to attribute responsibility for something that has gone wrong.
15. V (verb) - to try to persuade someone to do something by offering them a tempting reward or advantage.
16. V (verb) - to have a strong desire or longing for something.

## DOWN

1. N (noun) - a person who studies the mind and behavior.
2. N (noun) - something given as a result of good behavior or achievement.
3. V (verb) - to have an effect on someone or something.
4. N (noun) - words or ideas that are not sensible or meaningful.
7. A (adjective) - based on reason or logic; sensible and logical.
8. N (noun) - a clever or deceitful method used to fool or deceive someone.
9. V (verb) - to feel sorry or sad about something that has been done or not done.
11. N (noun) - a scientific test or trial designed to investigate a particular phenomenon or effect.

## Scenario 2: Facilitating language immersion

### **Purpose:**

- create more language input
- expand skills (phonological awareness)
- expose to new words and grammar
- increase students' interest in reading and listening
- support language development



# Prepare your text

- A psychologist named Dr. Smith was a perfectionist in all his work. He always followed a rational approach and believed that human behavior was not nonsense, but was driven by affects, tricks, and regrets.
- Dr. Smith conducted an experiment to test his theory. He created a strict schedule for a group of people and offered them a reward if they followed it for a week. The schedule included all the usual daily routines, such as waking up, eating, and sleeping.
- Some people craved the routine because it gave them a sense of purpose and structure. However, others felt trapped by the strict schedule and found it difficult to stick to it. At the end of the week, some people felt regret for not following the schedule well, while others blamed Dr. Smith for creating such a difficult schedule.
- Dr. Smith filtered through the data and realized that people's reactions were very different. Some people thrived on routine and structure, while others needed more flexibility and variety in their lives. This experiment helped him understand that human behavior is complex and that people need to find the right balance for themselves.



 Sign Up with Google

By clicking 'Sign Up with Google' and signing up, I agree to the [Terms of Service](#) and acknowledge that I have reviewed ElevenLabs' [Privacy Policy](#).

OR

Work email

Password

- I agree to the [terms of service and privacy policy](#).
- I want to receive product updates.

I am human



Sign Up

ALREADY REGISTERED?

Sign In

This site is protected by reCAPTCHA and the Google [Privacy Policy](#) and [Terms of Service](#) apply.



# Speech Synthesis



Unleash the power of our cutting-edge technology to generate realistic, captivating speech in a wide range of languages.

Task

Text to Speech

Convert text into lifelike speech using a voice of your choice.

Speech to Speech

Create speech by combining the style and content of an audio file you upload with a voice of your choice.

Settings

2

Santa Claus

+ Add voice

RECENTLY USED

- Daniel british deep news presenter
- Adam american deep narration
- Santa Claus christmas

Text



A psychologist named Dr. Smith was a perfectionist in all his work. He always followed a rational approach and believed that human behavior was not nonsense, but was driven by affects, tricks, and regrets. Dr. Smith conducted an experiment to test his theory. He created a strict schedule for a group of people and offered them a reward if they followed it for a week. The schedule included all the usual daily routines, such as waking up, eating, and sleeping. Some people craved the routine because it gave them a sense of purpose and structure. However, others felt trapped by the strict schedule and found it difficult to stick to it. At the end of the week, some people felt regret for not following the schedule well, while others blamed Dr. Smith for creating such a difficult schedule. Dr. Smith filtered through the data and realized that people's reactions were different. Some people thrived on routine and structure, while others needed more flexibility and variety in their lives. This experiment helped him understand that human behavior is complex and that people need to find the right balance for themselves.



1127 / 2500

Total quota remaining: 5491

Generate



# Speech Synthesis

Unleash the power of our cutting-edge technology to generate realistic, captivating speech in a wide range of languages.

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Text to Speech 

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Create speech by combining the style and content of an audio file you upload with a voice of your choice.

Settings

Daniel



+ Add voice

Voice Settings



Eleven Multilingual v2



 We recommend switching to the **Eleven Multilingual v1** model to get the best possible quality for this voice.

Daniel, Bri



Text

A psychologist named Dr. Smith was a perfectionist in all his work. He always followed a rational approach and believed that human behavior was not nonsense, but was driven by affects, tricks, and regrets. Dr. Smith conducted an experiment to test his theory. He created a strict schedule for a group of people and offered them a reward if they followed it for a week. The schedule included all the usual daily routines, such as waking up, eating, and sleeping. Some people craved the routine because it gave them a sense of purpose and structure. However, others felt trapped by the strict schedule and found it difficult to stick to it. At the end of the week, some people felt regret for not following the schedule well, while others blamed Dr. Smith for creating such a difficult schedule. Dr. Smith filtered through the data and realized that people's reactions were different. Some people thrived on routine and structure, while others needed more flexibility and variety in their lives. This experiment helped him understand that human behavior is complex and that people need to find the right balance for themselves.

Adam, Am



Santa Claus



1127 / 2500

Total quota remaining: 5491

Generate

# Scenario 3: Boosting interactivity with Word Clouds

## Purpose:

- Creative expression
- Brainstorming
- Vocabulary building
- Idea association
- Warm-ups
- Icebreakers
- Feelings check-ins

## **Benefits:**

- Create excitement
- Engage Ss with the lesson
- Connect to the material
- Visually demonstrates concepts
- Provide Ts with quick info



Presentation tools

Angela Lin



Diana Woo

Welcome to ClassPoint - PowerPoint

class POINT MATH123 55% 20

7

Derrel Wu

56

ClassPoint

Timer

Stopwatch

5m 0s

Start

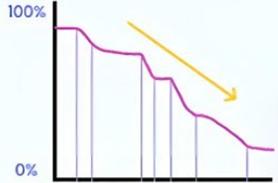


Sarah Mason



### HOW HAS GLOBAL LITERACY EVOLVED IN THE LAST TWO CENTURIES?

Literate and illiterate world population chart



In fact, while the ambition of universal literacy in Europe was a fundamental value long before the Enlightenment, it took centuries for it to happen. Even in early industrialized countries it was only in the 19th and 20th centuries that rates of literacy approached universality.

Literacy rates grew remarkably but not as slowly until the beginning of the 19th century. And the rate of growth really climbed after the middle of the 20th century, when the expansion of basic education became a global priority.



Generate PDF



www.classpoint.io



# Wrap up

- ERNIE Bot—Streamlining educational tasks with Large Language Models
- ElevenLabs—Facilitating language immersion by Text-to-Speech Innovation
- ClassPoint—Enhancing interaction via Classroom Response Systems



# 5

# Conclusion



- Embrace
- Explore
- Evaluate
- Enjoy

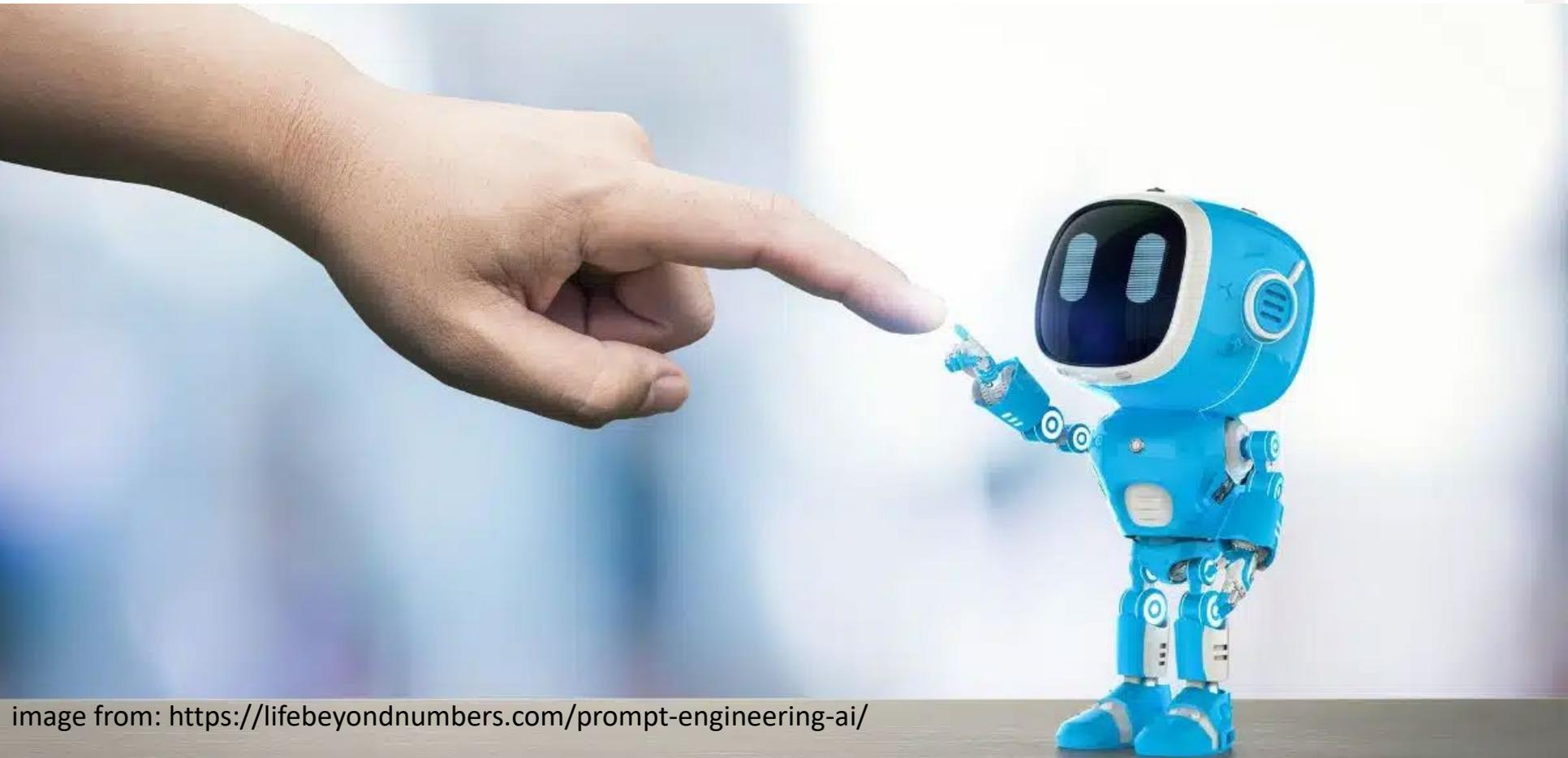


image from: <https://lifebeyondnumbers.com/prompt-engineering-ai/>

# KEY TAKEAWAYS

image source: <https://depositphotos.com/>



**THANK  
YOU**

UNIVERSITY OF  
SHEFFIELD



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