



Foundations of AI & Generative AI

Week 2 · AI Literacy

AI-Integrated Teaching · Fall 2026 · Instructor Yoobinnara Kim

Today, in one sentence: what AI really is, how it "thinks," and why YOU are still the smartest one in the room.

Welcome Back! How Was Your Week?

10 min

Last week, the optional homework was: have one more AI conversation.



Who talked to an AI this week?

Show of hands, what did you ask about?



Any surprising answers?

2–3 volunteers: share one interesting



Any problems?

Could not log in? Strange answers?
Let us fix it together

No homework done? No problem! today's class starts from zero anyway. You did not miss anything!

Today's Roadmap: 3 Hours, 3 Sessions



SESSION 1 · 50 MIN

What Is AI, Really?

A game of "AI or Not?", AI hiding in your daily life,
and how machines actually learn



SESSION 2 · 50 MIN

Generative AI & Its Tricks

The autocomplete secret, why AI sometimes
makes things up, and a fact-check challenge



SESSION 3 · 50 MIN

AI Literacy: You Are the Pilot

Two 10-minute breaks between sessions, they are on the slides, I will not forget!

The Big Question

5 min

"Artificial intelligence is when a computer does things that normally need human intelligence."

understanding language · recognizing pictures · making predictions · writing text



AI is NOT

A robot with feelings, a magic brain, or something from a movie



AI IS

Software that finds patterns in data, very fast, at a very large scale



The tricky part

It can LOOK intelligent without understanding anything, more on that in Session 2!

AI or Not?

10 min

For each one: is there AI inside? Thumbs UP = AI · Thumbs DOWN = not AI. Ready?



1 · A pocket calculator

AI?



2 · Netflix suggesting a show

AI?



3 · Your spam mail filter

AI?



4 · A digital alarm clock

AI?



5 · Papago translating a menu

AI?



6 · Your phone unlocking with your face

AI?

Discuss with your neighbor for 1 minute before we vote, then answers on the next slide!

AI or Not? The Answers!



Pocket calculator

Not AI

Follows fixed rules, same input, same output, no learning



Netflix suggestions

AI ✓

Learns YOUR taste from millions of viewing patterns



Spam filter

AI ✓

Learns what spam "looks like" from examples, and keeps learning



Digital alarm clock

Not AI

Just counts time, no patterns, no learning, no data



Papago translation

AI ✓

Learned from millions of translated sentence pairs



Face unlock

AI ✓

Learned to recognize the patterns of YOUR face

The pattern: AI = learns from examples and data. Not AI = only follows fixed rules.

How Does a Machine "Learn"?

15 min

Nobody writes rules like "a cat has pointy ears." Instead, AI learns the way a baby does, from many, many examples.



This is called machine learning, and it is why data matters so much. If the examples are bad or unfair, the AI learns bad or unfair patterns. (Remember this, it returns in Week 10: Bias!)

Where Did AI Touch YOUR Life Today?

15 min

With your neighbor (5 min): find 3 moments TODAY where AI probably helped you :)



On your phone

Face unlock? Photo search? Keyboard suggestions?



Getting here

Bus arrival predictions? Map directions? Traffic alerts?



Entertainment

Music recommendations? Short-video feeds? Game opponents?



Language

Translation? Subtitles? Autocorrect fixing your typos?

The point: you have been an AI user for years, today you just learned what to call it.



Break Time!

10 minutes. We restart at __ : __

Stretch · say hi to a classmate from another country

Coming up in Session 2: the one simple trick behind ChatGPT

AI That Makes New Things

8 min

"Generative" simply means it generates, it creates new content that did not exist before.



Text

Essays, emails, lesson plans, quiz questions, poems...

ChatGPT · Claude · Gemini



Images

Illustrations, diagrams, photos of things that never existed

DALL·E · Midjourney



Audio & video

Voices, music, even talking videos

Suno · various tools

In this course we mostly use TEXT generative AI, it is the most useful (and the easiest) for making teaching materials.

So... how does it write so well? The secret is on the next slide, and it is smaller than you think.

It Just Predicts the Next Word

7 min

Let's prove YOU can do it too. Everyone, shout out the next word:

"Twinkle, twinkle, little ____"

Easy, everyone knows it!

"For here or to ____?"

You predicted from context

"The capital of France is ____"

Wait... is prediction the same as knowing?

ChatGPT does exactly this , billions of times, trained on a huge part of the internet. It predicts the most likely next word, again and again. That is the whole trick.



Important!

Predicting words that SOUND right is not the same as KNOWING what is true.

Keep this idea, you will need it in 10 minutes.

You vs. AI: Finish the Sentence

12 min



Step 1 • You first (2 min)

On paper, finish this sentence YOUR way:
"The best thing about being a teacher is..."



Step 2 • Now the AI (5 min)

Open your chatbot and type the prompt on the right. Then try it once more, does it answer the same twice?



Step 3 • Compare (5 min)

Read your neighbor's answer and the AI's. Whose is more original? More honest? More "human"?

Everyone will finish, there is no "right" answer here.

COPY THIS PROMPT

"Finish this sentence in one short paragraph:
The best thing about being a teacher is..."

Feeling playful? Also try:

"...answer again, but as a pirate"

"...answer in exactly 5 words"

Notice: the same prompt gives DIFFERENT answers each time. Prediction, not memory!

Why AI Sometimes Makes Things Up

8 min



This is called a hallucination, the AI confidently states something that is simply not true. It is not lying (it has no idea what "true" means). It is just predicting words that sound right.



Invented books & papers

Ask for sources → it may create realistic-looking references that do not exist



Confident wrong facts

Small-town details, recent events, statistics, it fills gaps with guesses



Made-up people & quotes

It can "quote" a famous person... who never said that

For teachers this matters a LOT: wrong "facts" in a worksheet reach 30 students at once. So let us learn to catch them, right now.

The Fact-Check Challenge

15 min



Step 1 • Pick your expert topic (1 min)

Choose something you know REALLY well: your hometown, your favorite team, the subject you teach.



Step 2 • Ask the AI about it (7 min)

Use the prompt on the right. Read carefully, like a detective



Step 3 • Hunt for mistakes (7 min)

Find at least ONE thing that is wrong, outdated, or "almost right." Circle it.

COPY THIS PROMPT

"Tell me 8 facts about [my hometown / my subject / my team] . Include names, dates, and numbers."

Why names, dates & numbers?

Because that is where hallucinations hide most often, specific details are the hardest to predict correctly.

You know more than the AI about YOUR life. Enjoy the feeling.

Found NO mistakes? Great, but check twice. "Almost right" counts too!

3 Habits of a Smart AI User

8 min

Quick shares first: what mistakes did we catch? (3–4 volunteers), then remember these three habits forever:



1 · Verify the facts

Names, dates, numbers, sources: check anything important before you use it in class



2 · Ask "how do you know?"

Ask the AI for its sources, and then actually check whether they exist



3 · Trust your expertise

YOU are the subject expert. If an answer feels wrong, it probably is

UNESCO calls this "critically examining the accuracy of AI outputs", a core teacher competency. You just practiced it!



Break Time. Round 2!

10 minutes. We restart at __ : __

Walk around a little, your brain likes it. Water is also a good idea.

Coming up in Session 3: the Chatbot Battle (as promised last week!)

What Every Teacher Needs to Know

10 min

UNESCO (2024): ALL teachers need basic "AI literacy", and you are building it right now. It has three simple parts:



Understand

Know what AI is, how it learns,
and where its limits are

✓ You did this in Sessions 1–2!



Judge

Decide when AI helps your students,
and when it does not

We build this from Week 4



Protect

Keep human agency: people decide,
AI only suggests

Our theme for today's finale

Next week (Week 3) we will see the full UNESCO map: 5 dimensions × 3 levels of teacher AI competency. Today is the foundation.

You Are the Pilot. AI Is the Autopilot.

5 min



An autopilot flies most of the route, but the pilot decides where to go, watches everything, and takes over the moment it matters.

In your classroom: AI can draft, suggest, and assist. YOU decide what reaches your students.



AI drafts a quiz → you check every question before printing



AI suggests feedback → you decide what your student actually needs



AI grades final exams alone → no. High-stakes decisions stay human. Always.

(UNESCO calls this "human accountability". Week 9 explores it deeply.)

The Chatbot Battle

15 min



Step 1 • Find a partner (2 min)

Choose any TWO chatbots (e.g., ChatGPT vs. Gemini). Open both, two tabs, or team up with your neighbor: one chatbot each!



Step 2 • Same question to both (6 min)

Copy ONE prompt from the right into BOTH chatbots. Exactly the same words.



Step 3 • Judge the winner (7 min)

Compare: Which is clearer? Friendlier? More accurate? Pick your winner and one reason why.

PICK ONE BATTLE PROMPT

A

"Explain photosynthesis to a 12-year-old in 5 sentences."

B

"Give me 3 fun classroom icebreakers for teenagers."

C

"Write a 4-line poem about my subject, [your subject]."

Or invent your own, any question from your teaching life!

No second chatbot account? Pair up, the battle is more fun as a team anyway!

And the Winner Is...?

10 min

Quick class survey, then 3–4 pairs share their experience:



Show of hands

Which chatbot won at YOUR desk? Was it the same for everyone... or not?



Same question, different answers

Why do two AIs answer differently?
(Hint: different training data, different design choices, by humans!)



The teacher takeaway

There is no single "best AI." The best tool depends on YOUR task, and only you can judge that.

Today's 3 Big Ideas

10 min

If you remember only three things from today, remember these:



AI learns from data

Not rules, patterns from millions of examples.
Good data in, good patterns out
(and vice versa).



GenAI predicts words

That is why it writes beautifully, and why it can
confidently make things up. Always verify!



You are the pilot

AI suggests, the teacher decides.
Your judgment is the most important tool in
the room.

One-minute paper: before you leave, write ONE question you still have about AI on a sticky note. I answer them next week!

Before Next Week

SMALL HOMEWORK (15 MIN, GRADED: EFFORT ONLY)

The Hallucination Hunt

- ✓ Ask any chatbot 8 facts about a topic you know well
- ✓ Find one wrong or doubtful "fact" (screenshot it)
- ✓ Write 2–3 sentences: how did you know it was wrong?
- ✓ Bring it to Week 3, best catches win small prizes

Exactly what you practiced today, just once more, solo.

NEXT WEEK

Week 3

Foundations of AI-Integrated Teaching, the UNESCO Framework

-  The full map: 5 dimensions × 3 levels of teacher AI competency
-  A friendly self-check: where am I now, where do I want to go?
-  Hallucination Hunt awards ceremony



You survived AI theory day!

And it only gets more hands-on from here.

Don't forget your sticky-note question · Hallucination Hunt due Week 3

Sources, Changes & Licenses

UNESCO SOURCE

AI competency framework for teachers

- ✓ UNESCO / AI competency framework for teachers / ISBN 978-92-3-100707-1 — licensed under CC BY-SA 3.0 IGO.
- ✓ DOI: <https://doi.org/10.54675/ZJTE2084>
- ✓ License: <https://creativecommons.org/licenses/by-sa/3.0/igo/>
- ✓ CHANGES & DISCLAIMER

Selected concepts were paraphrased, reorganized, translated, and combined with original classroom activities. The present work is not an official UNESCO publication and shall not be considered as such.

ICONS

Font Awesome Free 5.15.4

Icons © Fonticons, Inc., CC BY 4.0.



Recolored and rasterized for this lesson.



<https://fontawesome.com/license/free>



CC BY 4.0: <https://creativecommons.org/licenses/by/4.0/>