

AI in Education: Defining AI Chatbots

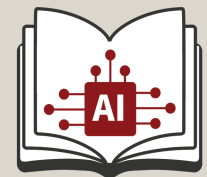
DATE

NAME

TITLE

UNIT

CONTACT



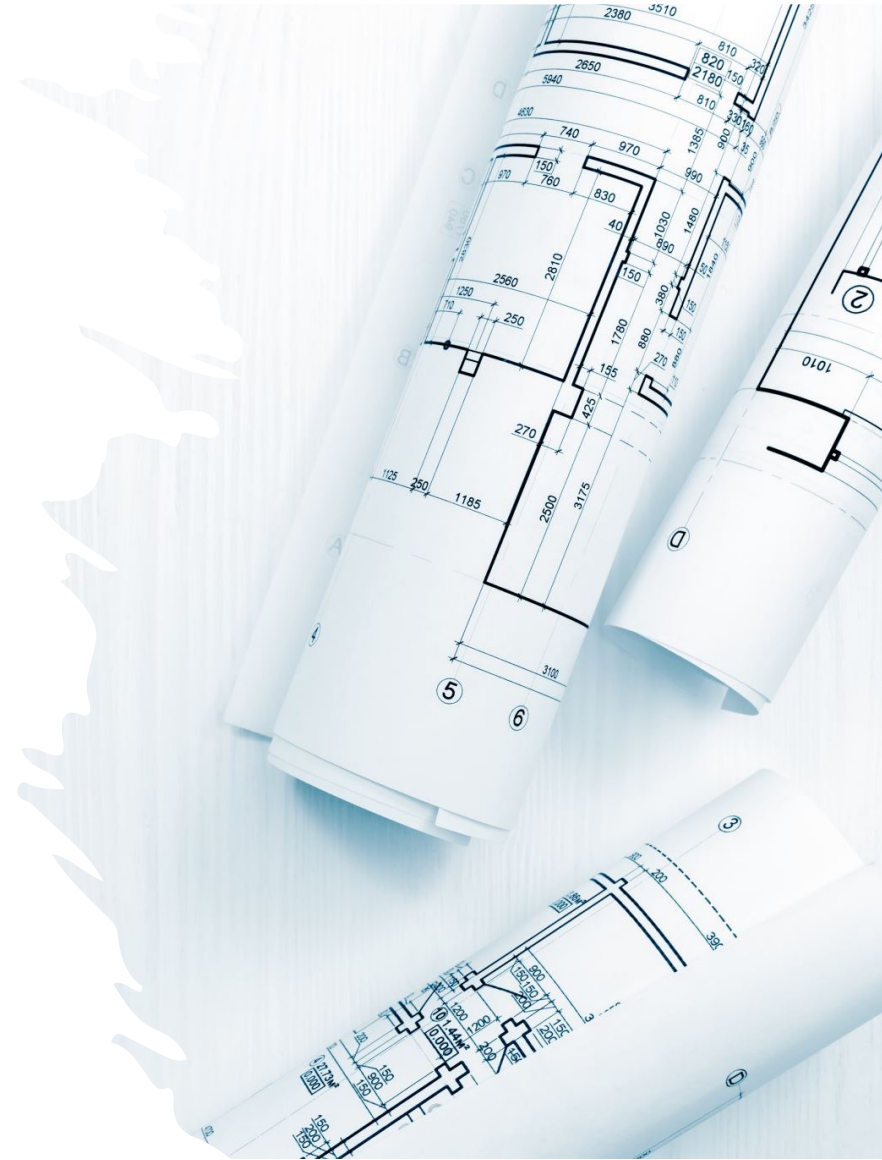
Today's primary learning objectives

- Increase feelings of acceptance, curiosity, and motivation regarding generative AI tools.
- Define common terms and concepts in AI.
- Summarize how generative AI tools work.
- Try using an AI chatbot in an informal and exploratory setting.



Acknowledgements

- **ChatGPT4** for summarizing, brainstorming, and suggestions on the content.
- **Midjourney & DALL-E** to generate images
- **Designer** feature within PowerPoint to suggest slide layouts and stock images.
- **Grammarly** for spelling, grammar, conciseness, word choice, and so on.
- **Smartsheets** for automating registration.
- **Outlook** and **Zoom** for event coordination.
- **Google** for web search...




Let's be flexible



Why should you care about AI?

- Our perspective and expertise is important to the discourse
- The landscape is evolving quickly
- Our students and instructors want guidance
- Using AI could improve how we do our work





How do you feel when thinking
about the future of AI in education?
Why do you feel that way?

Navigating new technology

- Connect to community
- Have a growth mindset
- Take care of your well-being
- Engage in the discourse



How many AI-powered tools have you used lately?

Facial recognition	Social media feed	Spam filter
Autocomplete	Web search algorithm	Maps & Navigation
Grammar check	Auto-captions	Smart home or speakers
Movie/song recommendations	Driver assistance	Automated customer support
Voice to text	Optical character recognition	Photo filters

Common AI Terms

Generative AI

Model

Large Language Model (LLM)

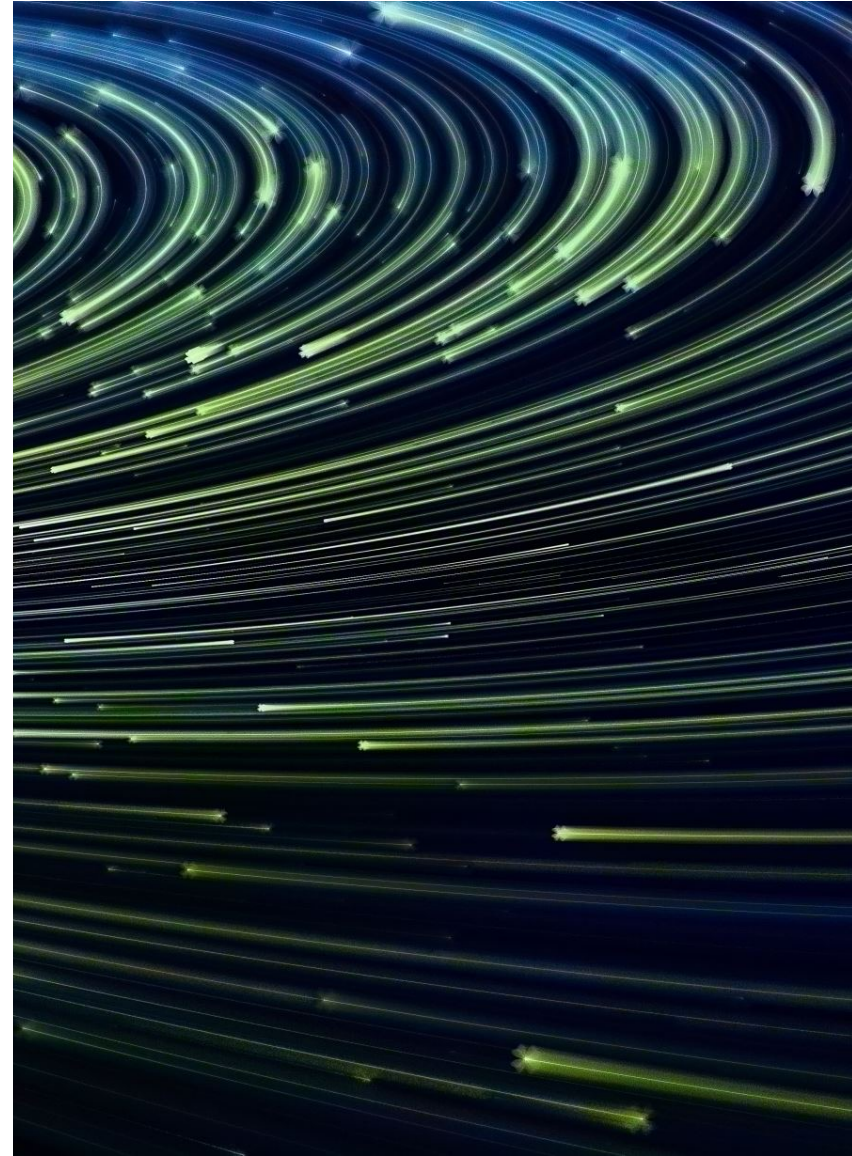
Chatbot

Deep Learning

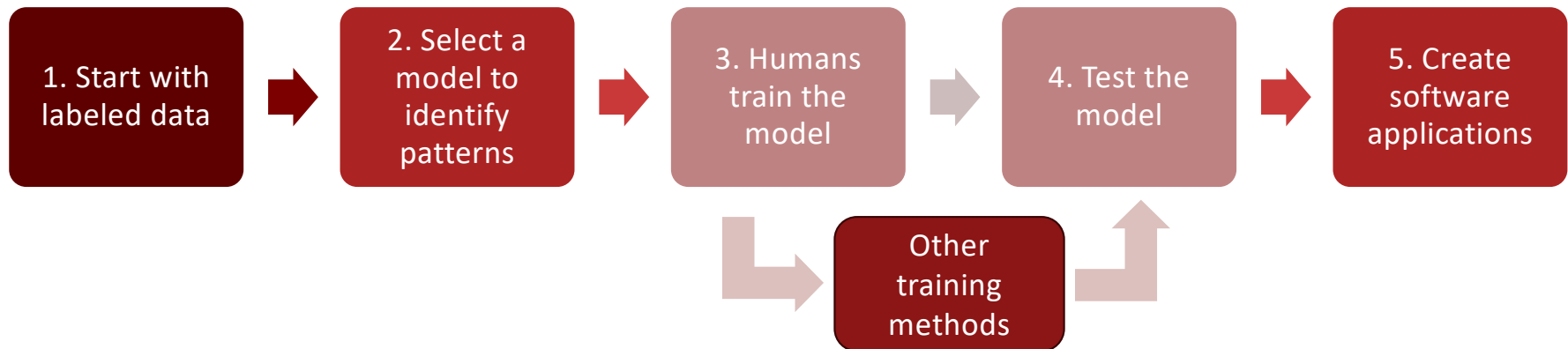
Training Data

Algorithm

Prompt



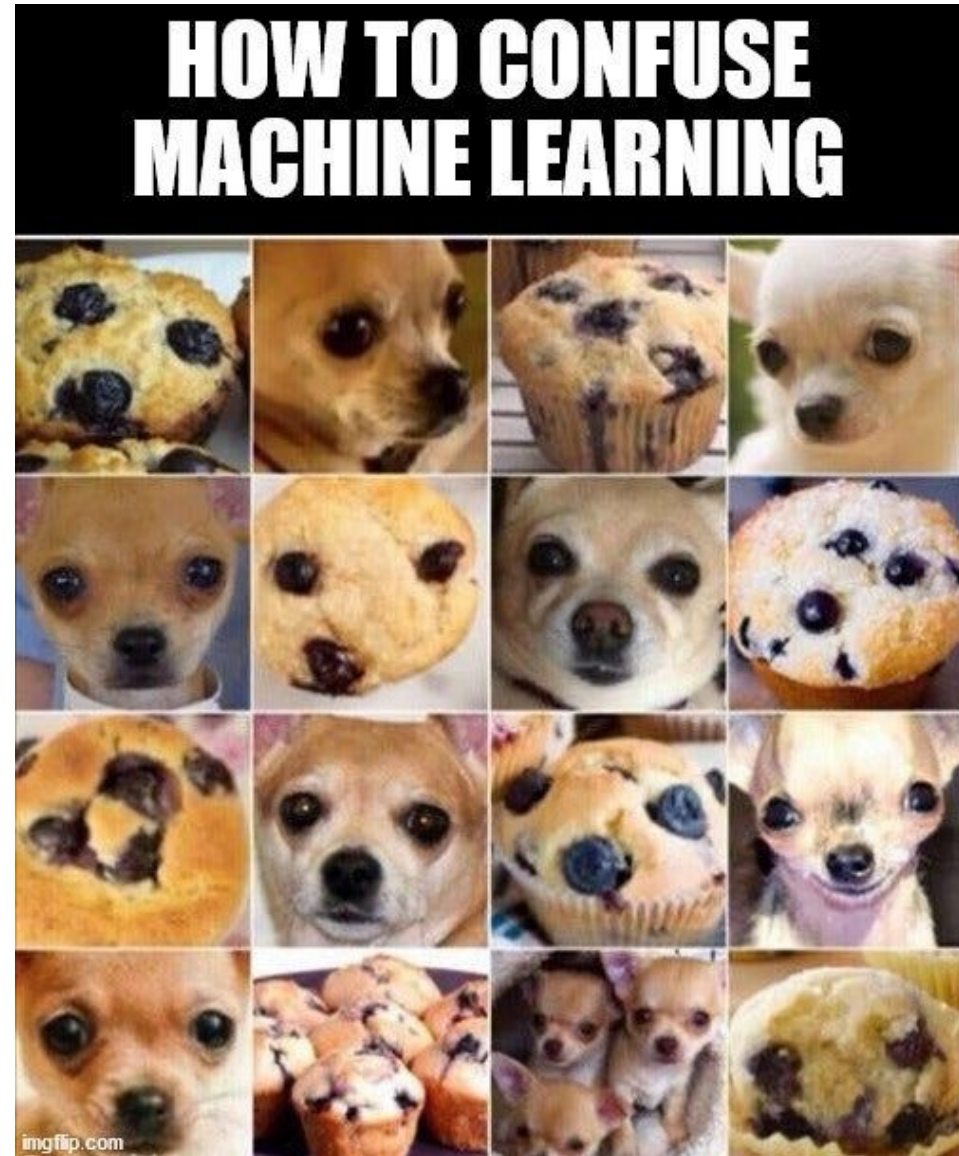
How machine learning works

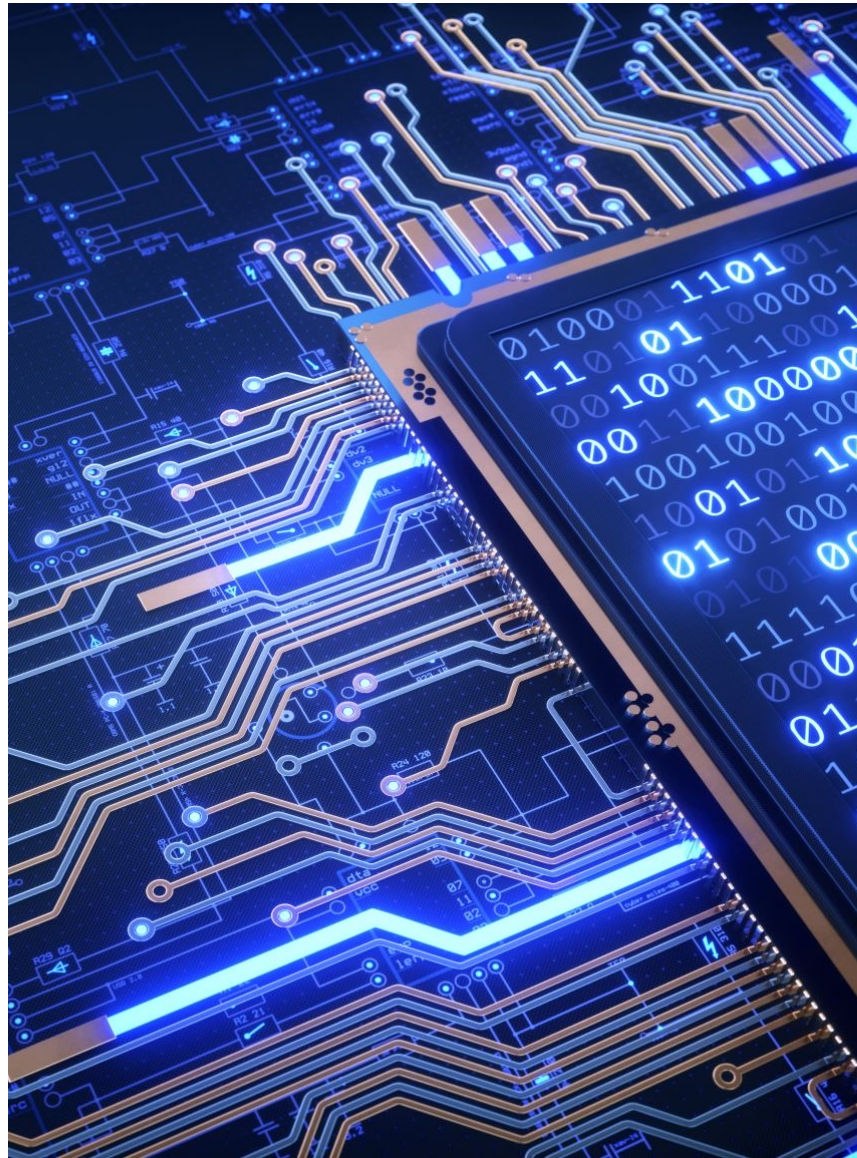


How to confuse machine learning

CHIHUAHUA OR MUFFIN SERIES. (n.d.). Karen Zack  Creative™. Retrieved April 8, 2024, from <https://www.karenzack.com/work/recognition-series>

Nesher86. (2021, May 14). *How to confuse "Machine Learning"* 🤖 [Reddit Post]. R/ProgrammerHumor. www.reddit.com/r/ProgrammerHumor/comments/nceia0/how_to_confuse_machine_learning/





AI-generated language is unique

- Super-advanced auto-complete and word prediction
- Average of enormous amounts of data
- “Randomly” and “statistically” generated
- Little, if any, self-awareness and contextual awareness

AI is “intelligent” in a way that mimics human intelligence but is fundamentally very different from human intelligence.

Human-generated language is unique

- Self-exploration
- Self-expression
- Relating to others
- More than just conveying information

Use AI to enhance human-generated language not replace it.





(Image generated by DALL-E, 12/18/23)

AI-generated language & Human- generated language



You won't know until you try.



Which
chatbot
should we
use?





(Image generated by DALL-E, 1/30/24)

Which search engine should we use in 1997?

- A. Excite
- B. Yahoo
- C. Dogpile
- D. Alta Vista
- E. Lycos
- F. Infoseek
- G. Use your phone-a-friend

Which streaming service should we use in 2020?

- A. Netflix
- B. Hulu
- C. Amazon Prime
- D. Disney+
- E. HBO Max
- F. Kanopy
- G. Pirate Bay



Accessing AI chatbots

OpenAI ChatGPT

- GPT3.5 (good)
- GPT4 (better)
- Free
- Can use Stanford email to create account

Google Gemini (aka Bard)

- PaLM 2 (good)
- Gemini (better)
- Free
- Use non-Stanford Google account

Microsoft Copilot (aka Bing)

- GPT4 (best)
- Web search
- Free
- Use non-Stanford Microsoft account

Try using a chatbot

- Remember to:
 - Jot down your thoughts and feelings
 - Reflect on the chatbots performance
 - Share your experience with others



(Image generated by DALL-E, 3/1/24)

Start with something fun



Create a recipe for a new fusion dish




Brainstorm ideas for a vacation to a fantastical world



Play a guessing game about an interesting trivia topic



Plan a surprise party for a special guest of honor



Complete the following prompt regarding AI: "I used to feel AI was... Now I feel..."

Continue to engage

- Use AI chatbots for your work tasks
- Read the AI Teaching Guide on the Teaching Commons website
- Attend upcoming CTL workshops on AI
- Talk about AI with colleagues and students



Wrap-up activity



[Tinyurl.com/KenjiSurvey](https://tinyurl.com/KenjiSurvey)

