AI in Education: Defining AI Chatbots
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?

<table>
<thead>
<tr>
<th>Facial recognition</th>
<th>Social media feed</th>
<th>Spam filter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autocomplete</td>
<td>Web search algorithm</td>
<td>Maps &amp; Navigation</td>
</tr>
<tr>
<td>Grammar check</td>
<td>Auto-captions</td>
<td>Smart home or speakers</td>
</tr>
</tbody>
</table>
| 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

1. Start with labeled data
2. Select a model to identify patterns
3. Humans train the model
4. Test the model
5. Create software applications

Other training methods
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.
AI-generated language & Human-generated language
You won’t know until you try.
Which chatbot should we use?
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

<table>
<thead>
<tr>
<th>OpenAI ChatGPT</th>
<th>Google Gemini (aka Bard)</th>
<th>Microsoft Copilot (aka Bing)</th>
</tr>
</thead>
<tbody>
<tr>
<td>• GPT3.5 (good)</td>
<td>• PaLM 2 (good)</td>
<td>• GPT4 (best)</td>
</tr>
<tr>
<td>• GPT4 (better)</td>
<td>• Gemini (better)</td>
<td>• Web search</td>
</tr>
<tr>
<td>• Free</td>
<td>• Free</td>
<td>• Free</td>
</tr>
<tr>
<td>• Can use Stanford email to create account</td>
<td>• Use non-Stanford Google account</td>
<td>• Use non-Stanford Microsoft account</td>
</tr>
</tbody>
</table>
Try using a chatbot

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