TELUS Wise responsible AI

A facilitator's guide

TELUS Wise® workshops are available free of charge and help empower people of all ages to have a positive experience as digital citizens.

telus.com/**WiseWorkshops**

The workshop

Thinking critically about artificial intelligence.

Grades: 9-12
Duration: 1 hour

TELUS Wise responsible AI engages youth in a discussion about using artificial intelligence responsibly, debunking AI myths and diving deeper into AI ethics.

This workshop is divided into four lessons, plus introduction and conclusion:

1. Discovering AI

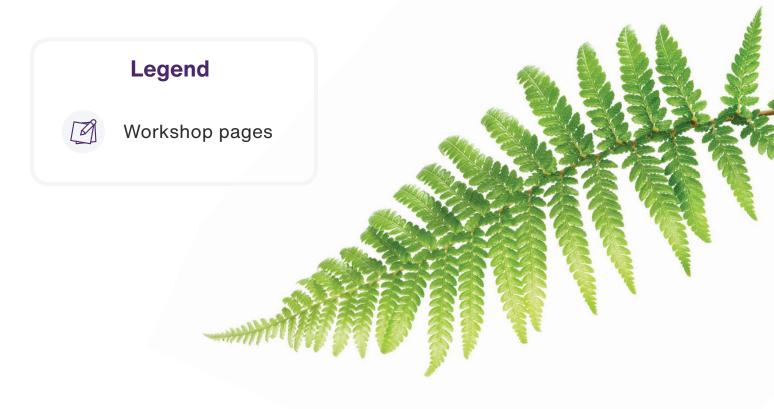2. Debunking myths

3. Critical thinking

4. Ethics and AI

The workshop can be completed independently, assigned as homework, or educators and program facilitators can lead the workshop with a group.

Tips for facilitators:

- Familiarize yourself with the content and site navigation before facilitating

- Each time you host a workshop, visit telus.com/WiseWorkshops and enter your email and the number of workshop participants for instant access

- Use the audio components provided and engage the group in discussions when suitable

- Read questions and each answer out loud, allow discussions, and reach a consensus before selecting an answer. Voting by show of hands works well

- Ensure all grey badges are clicked during lesson reviews

Materials required:

- Internet connection

- Computer and projector or smartboard

- Speaker

Legend

Workshop pages

Welcome: Introducing the workshop

This section emphasizes that AI is already a part of our daily lives and challenges participants to test what they already know about AI.

Click the AI Ready to Roll badge to collect.

AI and our world

Ask participants if they have ever encountered an AI assistant and to name any AI tools. Highlight that not too long ago an AI assistant felt like science fiction. Encourage responses from participants, acknowledging them throughout the workshop.

Finding commonalities

- What do these images have in common?

- Have they seen an image like this before?

- How do they think these images were created?

Flip over the card to see the answer.

Discovering AI

This section focuses on the building blocks of artificial intelligence. In this section, you will find conversation prompts designed to generate group discussion for each of the workshop pages, helping to increase participation.

Defining artificial intelligence

Share that there are many definitions of AI but highlight a useful one. AI is "any information technology capable of solving complex problems that would normally be attributed to humans or animals." The technology needs to be able to solve previously unseen problems to be considered AI.

Key AI terms

Click on each of the icons and have a different student read the description.

Ask participants to paraphrase this definition before clicking on the "got it" button for each term.

Examples of AI

Earlier in the workshop, AI usage was discussed. Now challenge participants to guess how each person depicted is using AI.

Flip cards over to see the answer.

AI and the news

Share a recent AI headline.

Ask participants what they think of such headlines and who they believe writes them.

AI in pop culture

Ask participants if they have seen movies that feature AI. Discuss their thoughts on AI in films and TV shows.

Recap

Ask participants if they think it would be difficult to go a day without AI, based on the discussion so far.

Knowledge check: Key AI concepts

Review the terms and definitions. Encourage those who took notes to match them correctly.

Click the AI Basics badge to collect.

Debunking myths

This section focuses on exploring common AI myths and using facts to debunk them. Below you will find prompts and questions that can help keep participants engaged.

Ask participants who think there might be myths about AI. Continue with activities to debunk common myths.

Myth #1: AI programs are smarter than humans 📝

Ask participants if they think AI can think and make decisions just like humans.

Play the audio clip.

Clarify that while AI can process information and make decisions based on data, it does not possess human-like consciousness or emotions.

Myth #1 in action

Play audio and click through each card.

Myth #2 Summary

Play the audio clip

Myth #2 summary 📝

Ask participants to think of some activities that humans excel at compared to AI.

Play the audio clip.

Myth #3 AI programs are conscious and might have feelings ✎

Ask participants why they think AI might try to emulate human emotions.

Play audio clip

Myth #3 summary

Play the audio clip.

Myth #4: AI programs could take over ✎

Ask participants if they have ever heard this myth before and whether it seems plausible to them.

Play audio clip

Myth #4 summary

Play the audio clip.

Ask participants what kind of ethical considerations they think are being discussed.

Activity: Putting your knowledge of AI myths into action.

Play the audio clip.

Knowledge check: AI myths ✎

Collaborate as a group to determine the best answer to each question. After reaching a consensus, click submit for each response.

Click the AI Mythbuster badge to collect.

Critical thinking

This section focuses on building tangible critical thinking skills that participants can use to determine whether information learned online is true or not. The notes below include questions and discussion points to increase engagement and participation.

Critical thinking and why it matters

Ask participants if anyone can provide an example of critical thinking and explain why it is important.

Vaidating AI information

Ask participants if they can always tell when content (such as an image, article or video) is created by AI.

Watch the video.

Validation tools

Suggest that participants write down the four steps to evaluate information.

Step #1: Question the facts

Using the example headline "AI will take most new grad jobs in the next five years", ask participants what questions they, as readers, might have.

Flip over each of the three flip cards at the bottom and ask group members to discuss each prompting question.

Step #2: Cross-check the information

Ask participants how they can quickly cross-check information. Sometimes starting with a simple search engine like Google can be helpful. However, emphasize that it's important to go deeper than that.

Flip over the three flip cards and discuss each method.

Ask participants why they think that if some parts of the information are true, it doesn't automatically mean everything else is true? Let's discuss this image further. What's happening here? Does it seem plausible?

Use the prompts on screen to continue the conversation.

Step #3: Double-check with fact-checking websites

Ask participants if they have heard about fact-checking websites or reverse image search? How could they use a fact-checking website to determine if this movie review is accurate?

Step #4: Evaluate based on your findings

Now that we have gathered data using our research skills, we need to examine it and look for patterns. Can anyone provide an example of how they would do this?

Summary: The four steps to evaluating information

The narrator mentioned that many AI models are trained on both reliable and unreliable data. Why do you think this could be problematic for us as end users?

Watch the video.

Knowledge check: Validating AI

Collaborate to match the correct term with its definition. Click on the AI Critical Thinker badge.

Ethics and AI

This section builds upon the knowledge that we have learned so far in the course and evaluates AI through an ethical lens. The prompts and questions below can be used to encourage discussion about the ethics of AI.

Unraveling the threads of ethics and AI

Ask participants what ethics are.

Your digital footprint

Ask participants what they think is meant by the phrase "every online input leaves a digital trail that leads back to you." When interacting with a chatbot or other AI model, do they consider their messages as part of their digital footprint?

What are ethics?

Review the four points displayed on screen and discuss them.

Ethical considerations and AI

Ask participants why they think personal information and misinformation are crucial to the conversation about AI and ethics.

Personal data

This phrase: "If you are not paying for the product, you are the product" has become widely used in discussions about privacy and the business models of many online platforms that offer free services. Why do you think personal data is valuable?

Sensitive personal data ✐

Complete the flip card activity.

Misinformation ✐

Did you know that AI can generate content shared on social media platforms? Has anyone noticed these types of posts before?

Connecting AI and misinformation ✐

Ask participants if they think it's always possible to distinguish between AI-generated content and human-created content? Have they heard of a social media echo chamber before? Do they think they have ever experienced one? Has anyone been tricked by a deepfake?

AI and combating misinformation ✐

Ask participants why they think that developing robust algorithms, promoting media literacy and nurturing critical thinking skills will help combat misinformation.

Bias and stereotyping ✐

Ask participants: What is bias? What are stereotypes? Considering the Bloomberg example, where do you think the bias exhibited by AI comes from? How could an AI model be trained to have less bias? Do you think it's possible to completely remove bias and stereotyping from AI models?

Ask participants if it's ethical to get AI to do their work for them? Is it considered plagiarism? What are some of the potential consequences of doing this?

AI and the future of work ✎

Ask participants if they can imagine a new job that might be created because of AI.

Ethics and privacy ✎

Complete the activity and click on the Guardian of AI badge to collect.

Conclusion

This section wraps up the course. The below prompts and questions can be used to encourage discussion and reflection on what participants have learned.

Ask participants to share one thing they learned from this workshop.

Talking about AI ✎

Inform participants that they might find they know more about AI than their peers. Highlight the talking points for conversation starters.

Additional resources ✎

This program was created by TELUS Wise in collaboration with CIFAR (The Canadian Institute for Advanced Research). If you want to learn more about AI, CIFAR's Destination AI course is a great place to start.

Click to collect the Responsible AI badge