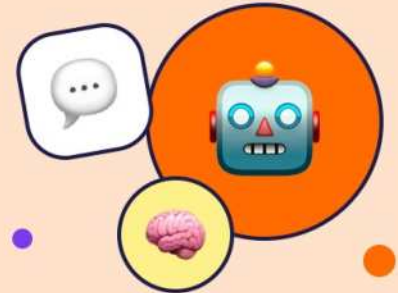


English

Grade 7

Artificial intelligence reading comprehension: how chatbots work

Read about AI chatbots, separate fact from opinion and evaluate a claim.



I can tell fact from opinion and evaluate a claim using evidence from a text.

1



How do AI chatbots work?



You type a question, and a few seconds later a chatbot writes back in smooth, confident sentences. It can feel like talking to a person, but an AI chatbot works very differently from a human mind.

A chatbot is built from a computer program called a language model. Engineers train the model on a huge amount of text, such as books, articles and websites. During training, the model learns patterns in how words usually follow each other. When you type a prompt, it predicts which words are likely to come next, one piece at a time, and builds an answer.

Because the model predicts likely words instead of looking facts up, it can make mistakes. Sometimes it gives a wrong date or even invents a source that does not exist, and it can sound just as sure when it is wrong. It can also repeat unfair ideas, called bias, that were in its training text.

That does not mean chatbots are useless. Many people use them to brainstorm ideas or explain a hard topic. The smart move is to treat an answer as a starting point and check important facts in a reliable source.

2 Understand the text

Circle the best answer.

1. What is the central idea of the text?

A Chatbots predict words from patterns, so their answers are useful but should be checked.

B Chatbots think exactly like people do.

C Chatbots should never be used at school.

2. In paragraph 2, the word 'predicts' most nearly means...

A remembers exactly

B makes a likely guess about

C copies from a book

3. Why can a chatbot give a wrong answer?

A It gets tired.

B It predicts likely words instead of looking facts up.

C It is always connected to the wrong website.

3 Fact or opinion?

Write each statement in the right column.

Chatbots are trained on large amounts of text.

Chatbots are the best invention ever.

A chatbot can invent a source that does not exist.

Talking to a chatbot is boring.

A language model predicts the next words.

Everyone should use a chatbot for homework.

Fact

Opinion

4

**Key terms**

Draw a line from each term to its meaning.

☐

prompt

☐

training

☐

bias

☐

reliable source



A. Unfair ideas that can be repeated from the training text.



B. A trustworthy place to check facts, like an encyclopedia.



C. The question or instruction you type in.



D. The process where a model learns patterns from text.

5

**True or false**

Use the text. Circle True or False.

1. A chatbot looks up every fact before it answers.

True

False

2. Language models are trained on books, articles and websites.

True

False

3. A chatbot always sounds unsure when it is wrong.

True

False

4. Bias can come from the text a model was trained on.

True

False

5. The author says chatbots are useless.

True

False

6. The author suggests checking important facts in a reliable source.

True

False

6

**From text to answer**

Write 1 to 4 in the boxes to show how a chatbot gets ready and answers.

☐

The model learns patterns in how words follow each other.

☐

Engineers gather a huge amount of text.

☐

The model predicts the next words, one piece at a time.



You type a prompt.

7



Words in context

Use the words: brainstorm, reliable, predicts, prompt, bias.

1. Before writing, Lena used a chatbot to _____ ideas for her story.
2. An encyclopedia is a more _____ place to check a date.
3. The model _____ which word is likely to come next.
4. Jamal typed a clear _____ : "Explain photosynthesis in three sentences."
5. If the training text is unfair to a group, the chatbot may repeat that _____.

8



Author's craft

Circle the best answer.

1. Which word best describes the author's view of chatbots?

A angry B balanced C amazed
2. What is the main purpose of paragraph 3?

A To explain the limits and risks of chatbots B To show how engineers build computers C To tell a story about a student
3. In paragraph 1, "confident" most nearly means...

A confused B quiet C sure of itself
4. Which sentence best supports the idea that you should double-check a chatbot?

A "You type a question, and a few seconds later a chatbot writes back." B "It can sound just as sure when it is wrong." C "Many people use them to brainstorm ideas."

9



Evaluate the claim

A classmate says: 'The chatbot said it, so it must be true.' Do you agree? Support your answer with two details from the text.

How did it go?



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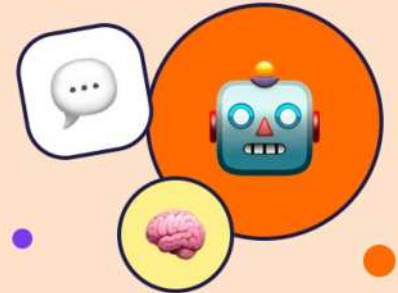
English

Grade 7

Answer key

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A chatbot can invent a source that does not exist.

Talking to a chatbot is boring.

A language model predicts the next words.

Everyone should use a chatbot for homework.

Fact

Chatbots are trained on large amounts of text.,
A chatbot can invent a source that does not exist.,
A language model predicts the next words.

Opinion

Chatbots are the best invention ever., Talking to a chatbot is boring.,
Everyone should use a chatbot for homework.

4 Key terms

Draw a line from each term to its meaning.

C prompt



D training



A bias



B reliable source



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● **B.** A trustworthy place to check facts, like an encyclopedia.

● **C.** The question or instruction you type in.

● **D.** The process where a model learns patterns from text.

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C "Many people use them to brainstorm ideas."

9



Evaluate the claim

A classmate says: 'The chatbot said it, so it must be true.' Do you agree? Support your answer with **Disagree**. **The text says...** *chatbots predict likely words instead of looking facts up, so they can make mistakes. It also says a chatbot can invent a source and sound just as sure when it is wrong, so important facts should be checked in a reliable source.*

How did it go?



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