

How Does AI-Detection Work?



Detecting AI-generated content is not a guessing game, and it's not magic either. It's a science.

Detecting whether a piece of writing was generated by AI or written by a human is a simple task—with the right software. Let's break down four ways that AI-detection tools can work.

4 ways to detect AI-generated content

True AI-detection tools will use a combination of the following methods to detect AI writing:



1 Analyze the style and structure of the writing



2 Use the generative AI against itself



3 Use machine learning (ML) algorithms



4 Scan for signature AI phrases

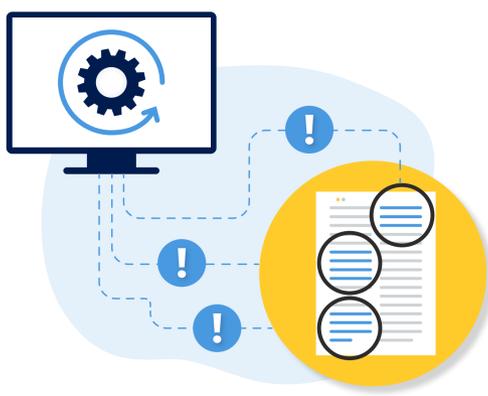
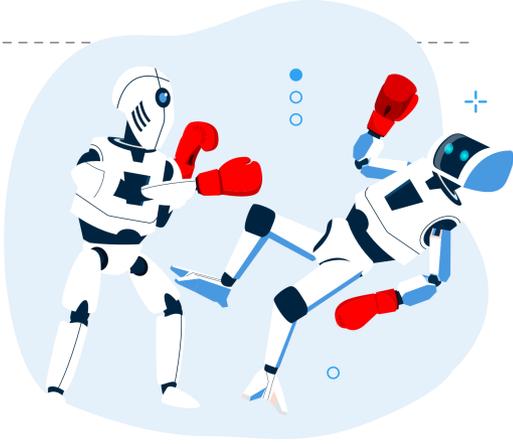


1 Analyze the style and structure of the writing

One of the first ways to detect AI in writing is by analyzing the style and structure of the writing. AI-generated text often follows a specific pattern that is different from human writing. Natural language processing (NLP) techniques can be used to extract and analyze the sentence structure, use of language, and overall flow of the text. Identifying these stylistic and structural patterns can help identify whether it was written by a human or generated by AI.

2 Use the generative AI against itself

Another method takes state-of-the-art large language models with similar capabilities and order of parameters to Open AI models, asking it to predict how likely it is to generate a given text as an indicator of AI involvement.



3 Use machine learning (ML) algorithms

ML algorithms can be trained to recognize the differences between human writing and AI-generated writing. By analyzing a large corpus of text, the ML algorithm can learn to identify patterns in the text that are indicative of AI-generated writing.

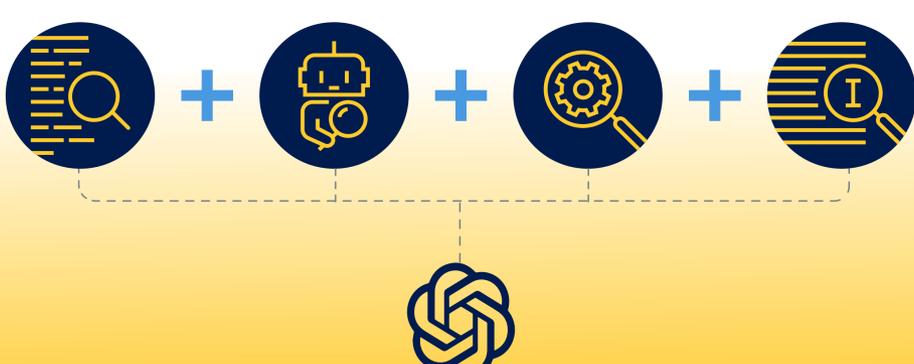
4 Scan for signature AI phrases

Many AI-generated texts use specific phrases consistently when responding to questions, writing emails, or filling out applications. For example, ChatGPT tends to say "Here are the steps" when explaining a process, or "AI assistant" to refer to itself. By filtering for these signature phrases, it is possible to improve accuracy over whether a text was generated by an AI.



How does Scaffold AI-Detection work?

[Scaffold AI-Detection](#) powered by [GPTZero](#) combines all four techniques to provide the most accurate and robust tool to detect AI in writing.



How can institutions detect AI writing?

By using Scaffold AI-Detection, institutions are able to analyze thousands of student submissions at once for potential AI-generated content, including:



1 Quizzes



2 Tests



3 Assignments



4 Online discussion posts



5 Essays



6 File attachments

And more.

The result is a complete picture of how much student-submitted content is potentially AI-generated—whether it's across the entire institution or an academic department.

This solution provides schools with the most accurate results to help maintain academic integrity.

How will your school respond to artificial intelligence tools?

[Speak with one of our AI-Detection experts](#) to determine if this solution is right for your institution.