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Important terms

Artificial intelligence

Artificial intelligence is the simulation of human intelligence processes by machines, especially computer systems. ([source](#))

Machine learning

Machine learning is one way to use AI. It was defined in the 1950s by AI pioneer Arthur Samuel as “the field of study that gives computers the ability to learn without explicitly being programmed.” Machine learning takes the approach of letting computers learn to program themselves through experience. ([source](#))

Dataset → Learning algorithm → Prediction

In general, AI systems work by ingesting large amounts of labeled training data, analyzing the data for correlations and patterns, and using these patterns to make predictions about future states. In this way, a chatbot that is fed examples of text chats can learn to produce lifelike exchanges with people, or an image recognition tool can learn to identify and describe objects in images by reviewing millions of examples. ([source](#))

Generative AI

the ability of computers to automatically create text, videos, photos and other media using cutting-edge machine learning technologies. ([source](#))

For more info:

[AI History](#) by Chat GPT

[Student-friendly AI course from MIT \(grades 6 and up\)](#)

What is Chat GPT?

[What Exactly Is Chat GPT & How Does It Work? For a 5-Year-Old! | by Akalbir Singh Chadha](#)

[Comprehensive slides](#) by Christina DiMicelli of Pinkerton Academy, NH

[More basic slides](#)

[Chat GPT Guide from Beaver Country Day School](#)

[What is ChatGPT and How You Can Use It](#) - Youtube video

Relevant articles

[ChatGPT Is a Tipping Point for AI - Harvard Business Review](#)

[Did a Fourth Grader Write This? Or the New Chatbot? - The New York Times](#)

[ChatGPT: Teachers Weigh In on How to Manage the New AI Chatbot \(Opinion\) - Edweek](#)

[NYC bans access to ChatGPT on school computers, networks - Chalkbeat New York](#)

[How to Use ChatGPT and Still Be a Good Person - The New York Times](#)

Other notable generative AI programs

[Google's AI collection](#)

[Futurepedia](#) - List of over 700 generative AI tools

[DallE](#) - generative art

[Caktus.ai](#) - can help generate essays, cover letters, personal statements, code, paragraphs, etc.

[MindSmith](#) - for teachers to generate course content

And many, many more!

Tools we have to check student work

[Digital tools we already have:](#)

[GoGuardian Scenes](#) - blocks all other websites except the ones allowed when applied

[Revision History in Google apps](#) - shows different edits by time

[Locked mode in Google Forms for quizzes](#) - applicable on Chromebook only, works like GoGuardian scenes and only allows the form to be used

[GoGuardian](#) - those with admin access can check student browsing history, though this is not foolproof for those who sign on to their home networks on a different device

Web Tools

[A Princeton student built an app which can detect if ChatGPT wrote an essay to combat AI-based plagiarism](#) - [GPT Zero](#)

According to [Georgetown University's Center for New Designs in Learning and Scholarship](#), "this software is useful if the entire selection was produced by AI, but if the user has embedded some AI-crafted text within their own words, it's much harder for the detector to identify AI." These detectors can also be used by students to reverse engineer text so it passes a detection test.

Tests of AI detectors -

Greater Implications for Education

[ChatGPT & Education](#) - has a great section on "What can educators do?"

[ChatGPT: Teachers Weigh In on How to Manage the New AI Chatbot \(Opinion\)](#) - [Edweek](#)

[ChatGPT, Chatbots and Artificial Intelligence in Education - Ditch That Textbook](#)

[AI in Learning: Designing the Future](#) - comprehensive ebook

[NYTimes Hard Fork podcast](#) on how a HS English teacher is using Chat GPT in her classroom

[ChatGPT for Educators](#)

<https://sites.google.com/siprep.org/aiforsifaculty/home> - St Ignatius College Preparatory

[AI Two-Pager](#) - Crystal Springs Uplands

[5 for 5 emails](#) sent to faculty at Pinkerton Academy, NH

[Syllabus Resources](#) - includes language on citing AI