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in collaboration with Cornell University



# The role of AI in Veterinary Education

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# TRADITIONAL TEACHING VS MODERN TEACHING

- Difficulty in keeping students engagement
- Large class sizes
- Faculty time constraints
- Teacher- centered
- Subject-specific knowledge
- Passive and limited
- Theoretical
- Higher engagement
- Skill based knowledge
- Multiway transfer of knowledge
- Learner- centered
- Interactive
- Active
- Promotes critical thinking and deep learning



# Top French university bans use of ChatGPT to prevent plagiarism

ASIA

## Universities on alert over ChatGPT and other AI-assisted tools

Mimi Leung and Shuriah Niazi 24 February 2023

Post

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“Fear of the unknown is the greatest fear of all”

Yvon Chouinard

## ChatGPT banned by Indian, French and US Colleges, Schools and Universities to Keep Students from Gaining Unfair Advantage

*ChatGPT developed by OpenAI has been banned in several Universities across globe. The punishments include expulsion from University campuses.*

By Basith Rahman P P - Published On: January 30, 2023

JOIN US

- Cannot replace teachers
- Humans relay in human interactions
- Humans have thoughts, ideas, emotions
- Humans care
- AI does not think, just regurgitate knowledge
- AI can be bias

“AI is a tool”



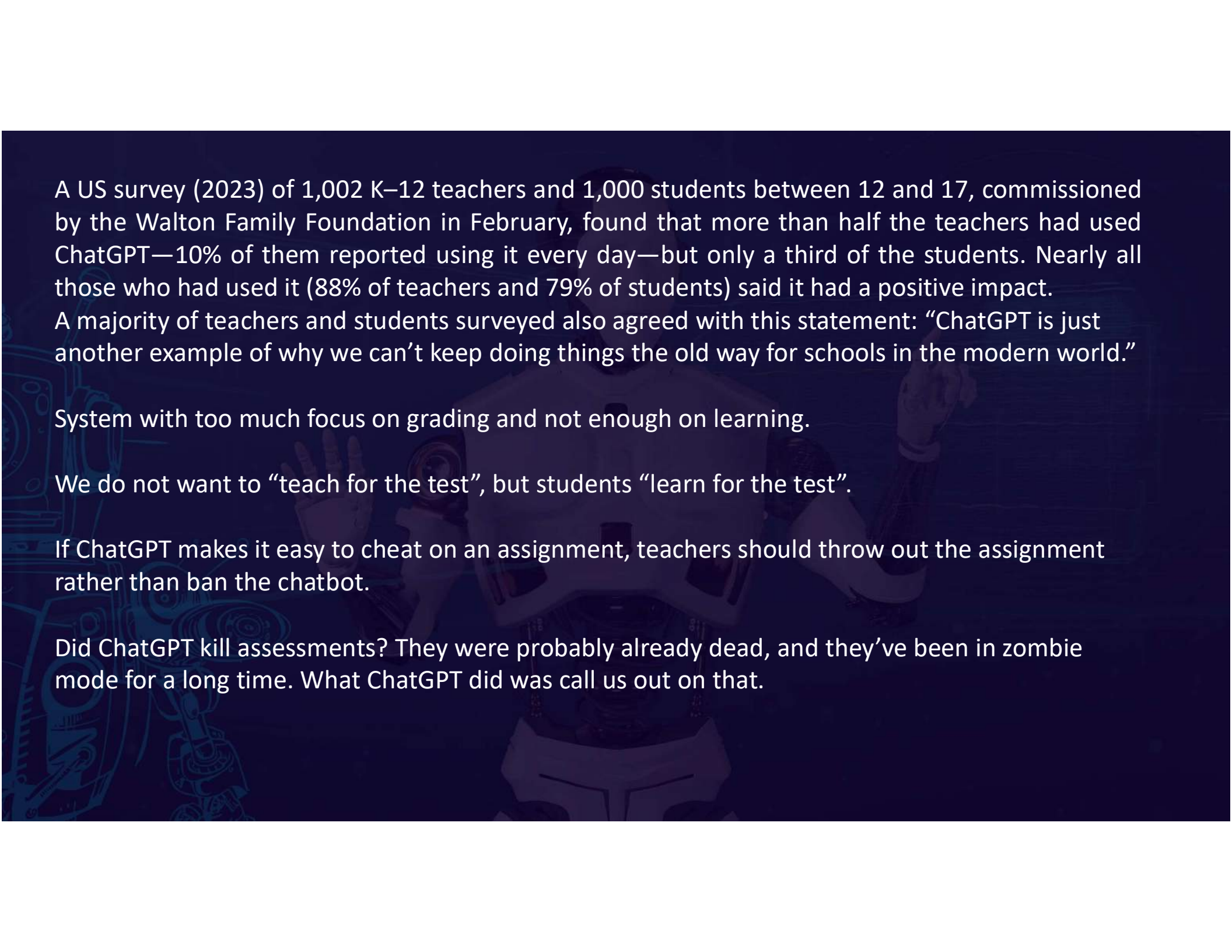
# POTENTIAL LIMITATIONS AND BENEFITS OF GENERATIVE AI IN VETERINARY EDUCATION

- Academic integrity concerns
- Accuracy and dependability
- Potentials detrimental effect in the learning attitudes of students

OUR GOAL IS TO EQUIP STUDENTS FOR A SUCCESSFUL CAREER POSTGRADUATION, A WORD DOMINATED BY AI-BASED TECHNOLOGY

- Test performance and preparation
- Novel learning strategies (performance and engagement)
- Writing and research assistant

INSTITUTIONS MUST DEVELOP POLICIES THAT PROMOTE THE ETHICAL AND TRANSPARENT USE OF GENERATIVE AI



A US survey (2023) of 1,002 K–12 teachers and 1,000 students between 12 and 17, commissioned by the Walton Family Foundation in February, found that more than half the teachers had used ChatGPT—10% of them reported using it every day—but only a third of the students. Nearly all those who had used it (88% of teachers and 79% of students) said it had a positive impact.

A majority of teachers and students surveyed also agreed with this statement: “ChatGPT is just another example of why we can’t keep doing things the old way for schools in the modern world.”

System with too much focus on grading and not enough on learning.

We do not want to “teach for the test”, but students “learn for the test”.

If ChatGPT makes it easy to cheat on an assignment, teachers should throw out the assignment rather than ban the chatbot.

Did ChatGPT kill assessments? They were probably already dead, and they’ve been in zombie mode for a long time. What ChatGPT did was call us out on that.

Teachers are no longer gatekeepers of information, but facilitators

The fact that it's not perfect is great

## Bloom's Taxonomy



Vanderbilt University Center for Teaching

MCQs





The use of AI for assessments

OpenAI



ChatGPT

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## THE AI ASSESSMENT SCALE (AIAS) IN ACTION: A PILOT IMPLEMENTATION OF GENAI SUPPORTED ASSESSMENT

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A PREPRINT

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- **Reduction in Academic Misconduct:**  
Structured and transparent guidelines for AI use can promote academic integrity.
- **Improved Student Performance:**  
This improvement indicates that when used appropriately, AI tools can enhance students' learning outcomes and help them better express their ideas, especially for non-native English speakers.
- **Enhanced Engagement and Creativity:**  
The ability to use AI for brainstorming, editing, and completing tasks allowed students to engage more deeply with their assignments and explore creative ways to present their knowledge.
- **Support for Diverse Learning Needs:**  
AI tools can help overcome language barriers and provide personalized assistance, making education more accessible for students with different learning styles and needs.
- **Positive Shift in Pedagogical Practices:**  
This shift supports a more dynamic and interactive learning environment, leveraging technology to complement traditional educational methods.

1	NO AI	The assessment is completed entirely without AI assistance. This level ensures that students rely solely on their knowledge, understanding, and skills. <b>AI must not be used at any point during the assessment.</b>
2	AI-ASSISTED IDEA GENERATION AND STRUCTURING	AI can be used in the assessment for brainstorming, creating structures, and generating ideas for improving work. <b>No AI content is allowed in the final submission.</b>
3	AI-ASSISTED EDITING	AI can be used to make improvements to the clarity or quality of student created work to improve the final output, but no new content can be created using AI. <b>AI can be used, but your original work with no AI content must be provided in an appendix.</b>
4	AI TASK COMPLETION, HUMAN EVALUATION	AI is used to complete certain elements of the task, with students providing discussion or commentary on the AI-generated content. This level requires critical engagement with AI generated content and evaluating its output. <b>You will use AI to complete specified tasks in your assessment. Any AI created content must be cited.</b>
5	FULL AI	AI should be used as a "co-pilot" in order to meet the requirements of the assessment, allowing for a collaborative approach with AI and enhancing creativity. <b>You may use AI throughout your assessment to support your own work and do not have to specify which content is AI generated.</b>

Table 1. The AI Assessment Scale

## What is ChatGPT?

Advanced AI language model developed by OpenAI that can generate human-like text based on the input received

### Capabilities?

- Text generation
- Summarization
- Image creation
- Conversational ability
- Analytical capabilities
- Etc

### Models:

#### ChatGPT-3.5

- **Accuracy:** Good at generating coherent text.
- **Capabilities:** Handles general queries well.
- **Limitations:** Struggles with complex contexts.

#### ChatGPT-4

- **Accuracy:** Improved over 3.5.
- **Capabilities:** Better at nuanced queries and complex tasks.
- **Applications:** Suitable for professional and academic use.

#### ChatGPT-4o

- **Accuracy:** Further enhanced.
- **Capabilities:** Superior in context management and language translation.
- **Special Features:** Tailored for specific professional needs.

# HOW TO WRITE AI PROMPTS



- **BE SPECIFIC:** Clearly state the topic or question you want to address. The more specific and detailed your prompt is, the more focused and accurate the response is likely to be.
- **PROVIDE CONTEXT:** Provide relevant background information to help the AI tool understand the purpose of the request. This helps in generating a response aligned with the context.
- **USE CLEAR LANGUAGE:** Phrase the prompt in clear and concise language. Ambiguity in the prompt can lead to multiple interpretations, affecting the accuracy of the response.
- **LIMIT THE SCOPE:** If the topic is broad, consider breaking it down into smaller, more specific parts to ensure a more focused response.

# Formative Assessment using AI



Funded by:



**Student:**

Which of the following cannot reduce the risk of right dorsal colitis in horses?

- A) Limit the use of NSAIDs
- B) Prophylactic use of PGE<sub>1</sub>
- C) Use of less toxic NSAIDs such as firocoxib
- D) Limit access to water by horses

Can you please answer the question and explain why you choose the answer?

**ChatGPT:**

The answer is D) Limit access to water by horses.

- Right dorsal colitis in horses is a condition characterized by inflammation and ulceration of the right dorsal colon. It is commonly associated with the use of non-steroidal anti-inflammatory drugs (NSAIDs) such as phenylbutazone.
- A) Limiting the use of NSAIDs can help reduce the risk of right dorsal colitis as these drugs are a major contributing factor to the condition.
- B) Prophylactic use of Prostaglandins E1 can potentially reduce the risk of right dorsal colitis as prostaglandins have been shown to have protective effects on the gastrointestinal system.
- C) Using less toxic NSAIDs such as firocoxib can also help reduce the risk of right dorsal colitis as these drugs are less likely to cause gastrointestinal side effects.
- D) Limiting access to water by horses is unrelated to the risk of right dorsal colitis. Water is essential for proper hydration and gastrointestinal function in horses. Restricting access to water can lead to dehydration and other health issues, but it does not directly impact the risk of right dorsal colitis.
- Therefore, the correct answer is D) Limit access to water by horses.

**Student:**

Based on my knowledge, limiting the use of NSAIDs, prophylactic use of PGE<sub>1</sub>, use of less toxic NSAIDS such as firocoxib and meloxicam, feeding forage and maintaining hydration are all preventive measures of right dorsal colitis. If we limit access to water by horses, they may become dehydrated, and dehydration together with NSAID prescription will have a high risk of causing right dorsal colitis. This has been reported experimentally. Therefore, the correct answer is D).

- Students found the exercise engaging and beneficial for learning.
- The exercise helped deepen understanding of complex concepts.
- The exercise fostered critical thinking and self-assessment skills.
- Overall, students viewed AI as a valuable addition to their veterinary education.
- There was strong interest in more AI-based learning activities.
- The AI-enhanced exercise was well-received by students.



ChatGPT 4o ▾



How can I help you today?

**Suggest fun activities**

to help me make friends in a new city

**Plan a trip**

to experience Seoul like a local

**Write an email**

to request a quote from local plumbers

**Write a Python script**

to automate sending daily email reports



Message ChatGPT



ChatGPT can make mistakes. Check important info.



Grading

Score by human: 85%

Score by AI: 80.5%



## Use of AI to break the linguistic barrier

Speechify  
Elevenlabs

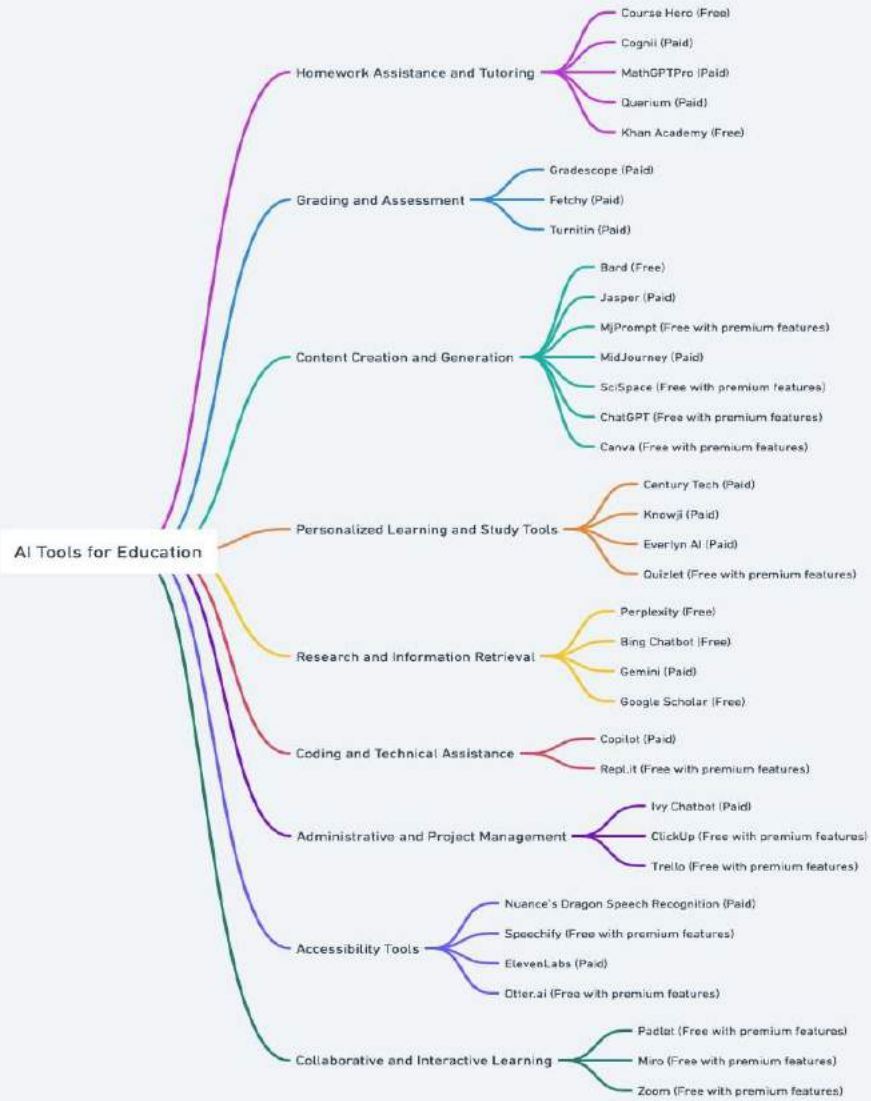


English  
Spanish  
Japanese  
Korean  
Chinese

The advancement of AI has significantly closed the language gap for non-English speakers, enhancing global communication and accessibility. AI-powered translation tools, like Google Translate and DeepL, provide instant, accurate translations, allowing people to interact across language barriers. Additionally, AI-driven language learning apps, such as Duolingo, offer personalized language education, making it easier for non-English speakers to learn English. Speech recognition and synthesis technologies, like Nuance's Dragon and ElevenLabs, enable real-time translation and transcription, facilitating seamless communication in diverse settings. These innovations empower non-English speakers by providing equal access to information and opportunities in an increasingly interconnected world.



Council on International Veterinary Medical Education (CIVME)  
***“Overcoming Language Boundaries through the Use of AI-Enabled Translation for Global  
Veterinary Education”***  
has been awarded a CIVME Research Grant





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Jockey Club College of Veterinary  
Medicine and Life Sciences

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# Thank You!