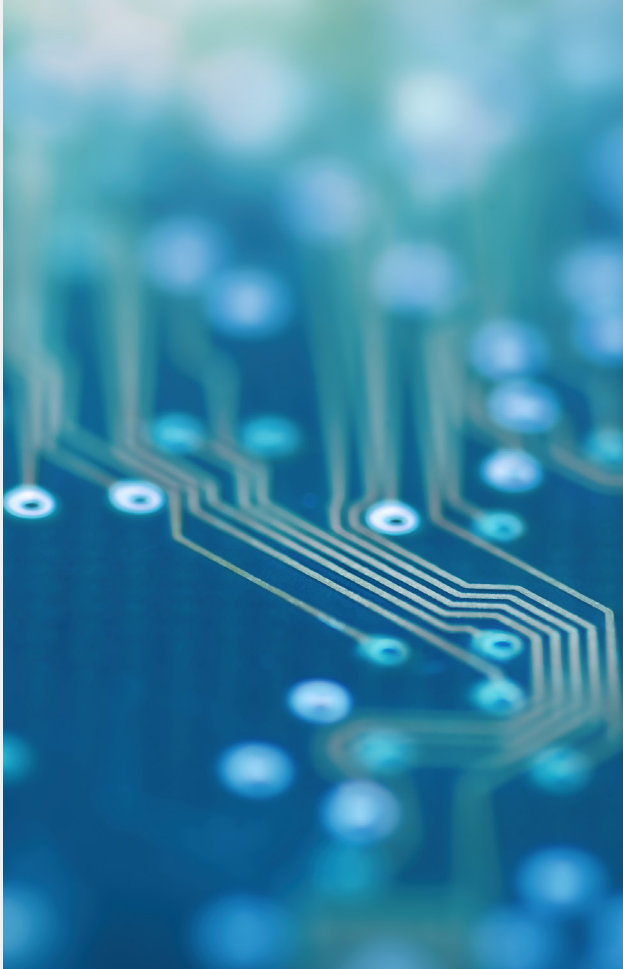


MAY, 2023

OZYEGIN UNIVERSITY



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A REVIEW OF ARTIFICIAL INTELLIGENCE IN EDUCATION THROUGH QUICK QUESTIONS

What is Chat GPT?

ChatGPT (Chat Generated Pre-trained Transformer) developed by OpenAI is language model using advanced artificial intelligence techniques to produce natural language responses to a given prompt. Deep learning and machine learning algorithms are utilised to detect patterns in text, analyse context, and generate responses that sound natural.



What is Chat GPT?

ChatGPT (Chat Generated Pre-trained Transformer) developed by OpenAI is a language model using advanced artificial intelligence techniques to produce natural language responses to a given prompt. Deep learning and machine learning algorithms are utilised to detect patterns in text, analyse context, and generate responses that sound natural. This technology has been employed in the development of virtual assistants, customer service bots, and other conversational interfaces.

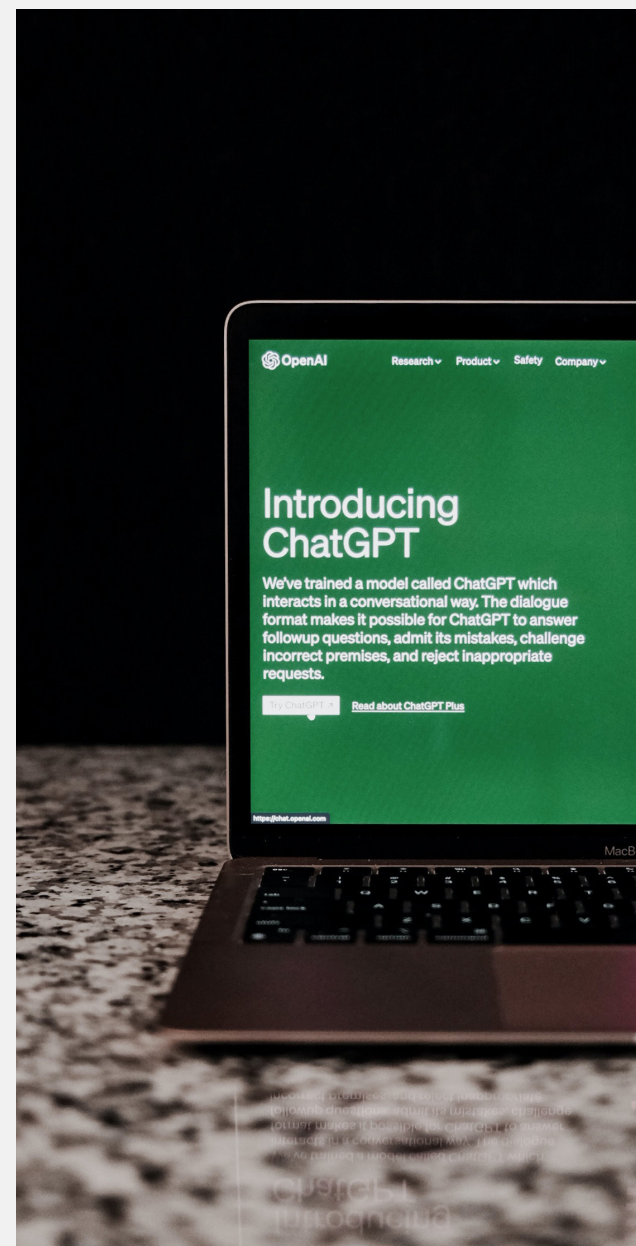
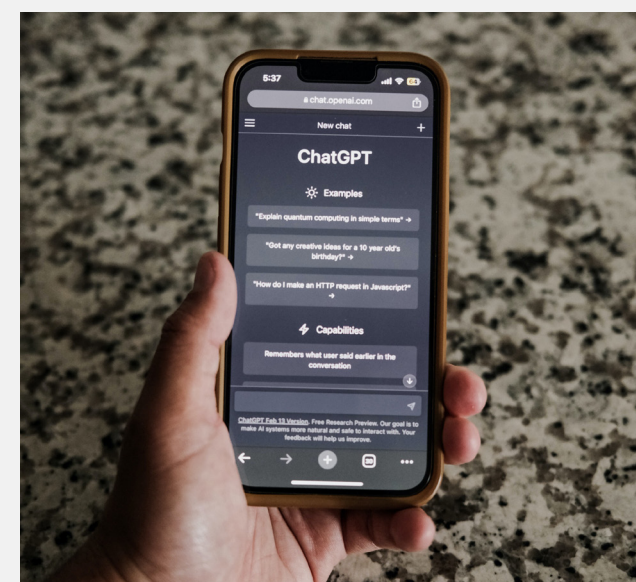
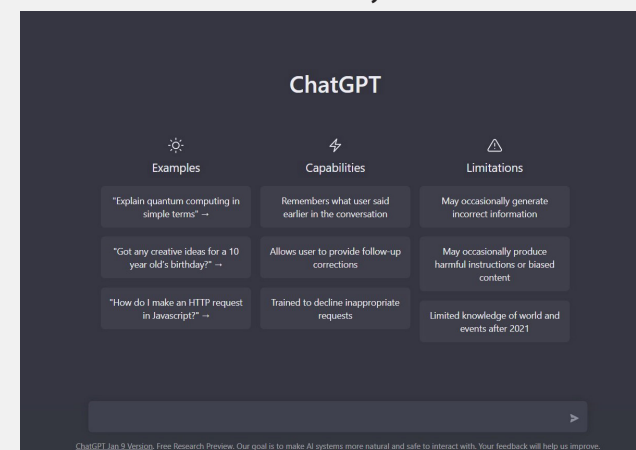
ChatGPT has recently drawn massive attention from all sectors including the field of education. Yet, there are several other advancements in the field of artificial intelligence.”



How to use chatGPT?

ChatGPT is a web-based tool. You can register for ChatGPT at <https://chat.openai.com/>. You need to create an account to start using ChatGPT. Simply typing in a query or action into the chat box is enough to get a response from ChatGPT.

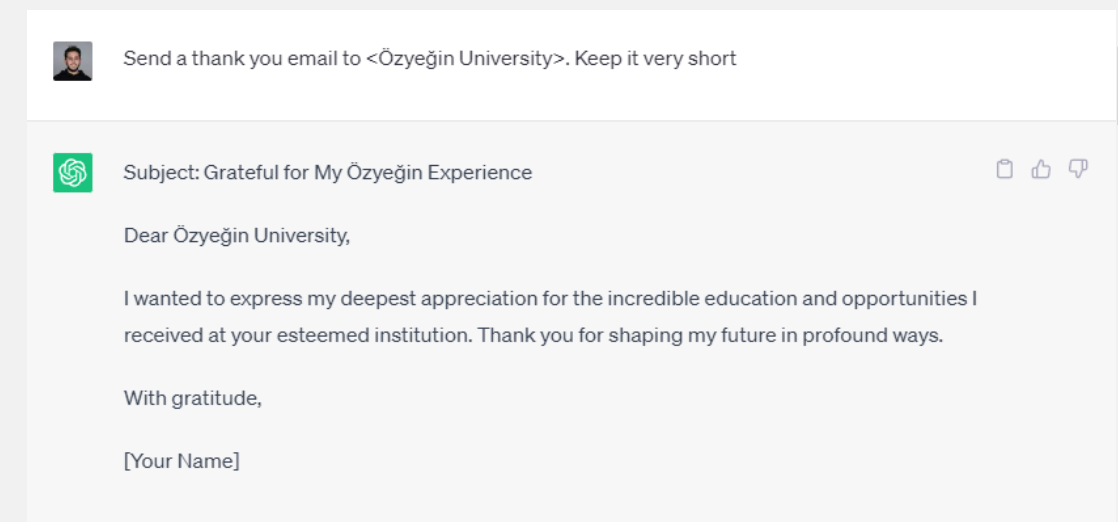
View of the ChatGPT site;



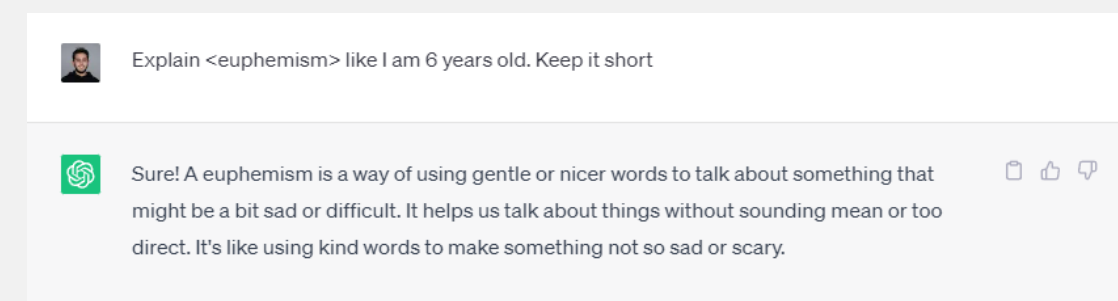
Some useful tips for ChatGPT (including but not limited to)

There are numerous queries you can explore through chatGPT. Here are some examples:

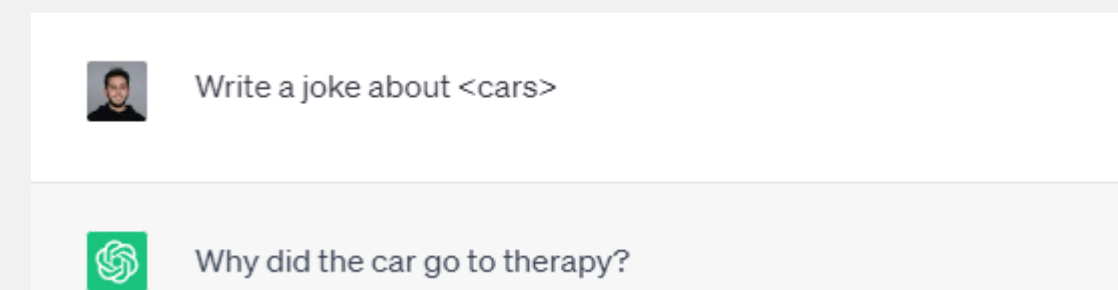
- 💡 Summarise <text>
- 💡 Paraphrase <text>
- 💡 Send a thank you email to <text>. Keep it short.



- 💡 Develop true/false questions from this text <text>
- 💡 Explain <a concept> like I am X years old.














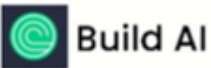








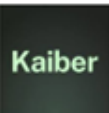






- 💡 Generate ideas for a video project.
 - Example: Generate ideas for a sustainability project.
- 💡 Write a joke about <text>



- 💡 Write code that I can copy and paste into Google sheets which will analyse the most frequent words in a column.

Is chatGPT the only AI tool available out there?

Certainly, no. There are lots of other AI tools available and the number of these tools is growing day by day. With the recent advances in AI, ChatGPT has been a buzzword; however, there are many more AI tools you can benefit from aligned with the nature of work you do. It should also be remembered that several advanced AI technologies have been incorporated into everyday applications, and are often not referred to as “AI” anymore, since they have become commonplace and widely utilised. Below, you will find different examples of AI tools.


SOME AI TOOLS TO DISCOVER	
Productivity	  
Design	  
Text to Voice	  
App Builder	  
Writing	    
Video	   
AI Lawyer	  
Startup	  







In what ways can AI be used for the field of education?

Stemming from the idea that use of AI in education can leverage the Bloom 2-Sigma effect (Bloom, 1984) (basically referring to the research that reveals the significant progress learner make equivalent to two standard deviations while receiving individualised tutoring), AI may offer unique opportunities for students to receive individualised support. Even though AIED (Artificial Intelligence in Education) has been thoroughly discussed over the years, robust evidence in terms of its effectiveness still remains scarce (Council of Europe, 2022). Therefore, it is critical to make pedagogically sound decisions in our instructions whilst utilising AI.



Here is you can find some classroom ideas that may come handy as you prepare for your classes.


 Write a course description for a first year experience class. Keep it short

 Course Title: First-Year Experience: Navigating Success   
Course Description:
The First-Year Experience course is a dynamic and interactive introduction to university life. Discover essential skills for academic success, explore campus resources, and cultivate a strong foundation for personal and professional growth. Build connections, set goals, and embark on a transformative journey toward a fulfilling college experience.




Creating Course Descriptions, Learning Goals and Objectives

- Create learning goals and objectives
ChatGPT may provide instructors with inspiration to rephrase/generate learning goals and objectives. Do not expect a seamless piece, though. At least, not yet!

 Create taxonomy objectives for a sociology course at the remembering level of bloom's taxonomy. Keep it short 



- Recall key sociological concepts and theories.
- Identify major sociological perspectives and their proponents.
- Recognize historical events and social movements that have shaped the field of sociology.
- Remember important sociological research methods and their applications.
- Recall significant contributions of influential sociologists throughout history.
- Remember basic statistical concepts and their relevance to sociological research.
- Recall the ethical considerations and responsibilities of sociologists in conducting research.
- Recognize the role of culture in shaping social behavior and attitudes.
- Remember the impact of social stratification on individuals and society.
- Recall the ways in which institutions, such as family, education, and government, influence social structure and behavior.

Instructional Ideas

- ChatGPT can help instructors create new instructional ideas aligned with their instructional objectives
Craft classroom ideas to practise <simple past tense> What are some novel ideas to start a new class? Provide examples for team-building.



Generate a question on the role of artificial intelligence in education at the synthesis level



"How can the synthesis of artificial intelligence and educational practices lead to innovative learning environments that cater to diverse student needs and promote personalized learning experiences?"



Critical Thinking

- ChatGPT can assist instructors in enhancing critical thinking
 - Ask students to compare a GPT generated text with human-generated text.
 - Ask students to use AI to generate questions and then defend their ideas in a certain theme.
 - Ask students to check the accuracy of an AI-generated text.
 - Ask students to identify the tone of the text generated by AI

Assessment

- AIED may help and guide instructors as they assess students' work based on a certain set of criteria or even help them create that set of criteria aligned with their instructional
 - Create a rubric to assess a group project.
 - Provide feedback on the following <text>

What are the possible concerns over the use of AI?



Cognitive Bias

Since AI tools such as GPT are based on sophisticated algorithms, trained on a massive dataset of input from the Internet, it is important to remind students that AI algorithms are prone to be biased, inaccurate and/or sided. Critical thinking skills are more important than ever!

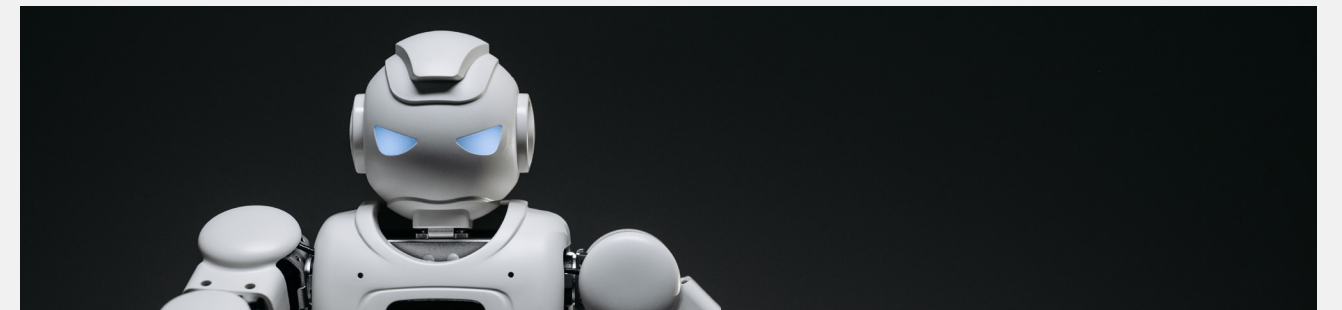
Academic Integrity

There are serious concerns over academic integrity since the advancements in AIED may open doors for students to cheat. Use of AI tools causes concerns in classes especially heavily relying on written inputs or recalling information. There are existing tools to detect plagiarism; however, they may not be thoroughly effective. Instructors should think of alternative ways in terms of their instructional and assessment strategies.

Accessibility

There are concerns over the accessibility of AI tools creating inequity due to

- Censorships
- Regulations or other restrictions
- Internet availability or issues with cost and speed
- The uneven spread of the infrastructure all over the world



How can we support AI in teaching yet prevent students from cheating?

There is a thin line between utilising the emerging technologies in our classroom and yet at the same time enhancing the quality of learning. This thin line lies in our instructional methods and assessment strategies. Below you can find a couple of ideas to use AI effectively in your teaching:

- Rely on in-class assignments/performance rather than asynchronous tasks: This may not apply to all kinds of activities; however, it may be useful to observe students as they are working on the learning objectives!
- Incorporate non-written assignments into your course plan. Debates, speaking activities, presentations and other forms of performance-based activities.
- A flipped classroom approach may be employed to help integrate AI into the course. For example, students may utilise AI for problem solving, case studies, and reading online content to get ready for their classes.

How do ÖzÜ members view the advancements in the AI field?

OLTE organised a panel entitled “Transformative Education with Generative AI” with the participation of faculty members from several departments. Before the organisation of this panel, OLTE has talked to several ÖzÜ Members from different departments to collect data and generate the panel questions in a grounded manner.

As OLTE, we asked ÖzÜ members to share their thoughts, ideas and concerns on the advancements in AI technology. Below you can find some quotations:



“When you start a business using AI, your productivity increases significantly. This is where the trajectory of AI technologies should be heading...”

Faculty of Engineering



“...The role of the law is not to hinder science, but to prevent violations that may arise from it...”

Faculty of Law



“...I do not believe that ChatGPT can have a major impact on the productivity, emergence of unique ideas for research and development. ChatGPT still has a long way to go since its sources of AI technologies are limited to a few resources. This limitation still carries the risk of bias...”

Faculty of Law



“...Providing students with limited assignments, such as solely written assignments, may contribute to their reliance on AI technologies and potentially result in laziness. It would be highly beneficial to encourage students to engage with AI systems that enable them to take on a more active role in their learning, conduct research, synthesise information and participate in other interactive activities...”

Faculty of Aviation and Aeronautical Sciences



“...When Duolingo was first released, people expressed concerns about job loss. However, our popularity grew instead. Now there are fears that AI will replace us. I strongly disagree with this... I believe that artificial intelligence will actually amplify our importance and increase interest in the work we do...”

School of Foreign Languages

