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Impact of Generative Artificial Intelligence (AI) on Undergraduates

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Abstract

This paper talks about the basics of how Generative Artificial Intelligence works and its advantages and disadvantages in general. The study explores the impact of Generative Artificial Intelligence in undergraduate's lifestyle and education. The paper clarifies about the amount of knowledge the students have of Generative Artificial Intelligence. The findings contribute to specifically show the students perspective of few globally well-known Generative Artificial Intelligence (Chat GPT, Snapchat AI, Google assistant) in daily lifestyle. The paper also shows the major reason for using of Chat GPT and Google assistant. The paper is also showing that students find Snapchat AI as a friendly companion. The paper also talks about the opinion of Generative Artificial Intelligence safety by undergraduate students.

Keywords

Generative Artificial Intelligence(AI), Chat GPT, Large language model, Snapchat AI, Google Assistant

1.Introduction

In today's changing world, moving towards Artificial Intelligence there is a significant impact on students. Artificial Intelligence refers to replication of human intelligence in machines that are programmed to think and act like humans. John McCarthy was one of the most influential people in this field, He is known as the father of the Artificial Intelligence because of his tremendous work in Computer Science and AI and he also coined the term Artificial Intelligence in 1950s. Generative Artificial Intelligence is a type of AI that produces diverse

types of content including text, audio, video etc that includes Chat GPT, Snapchat AI etc. Generative AI was first created by Joseph Weizenbaum in 1960s as part of the Eliza chatbot. Companies such as Open Ai, Anthropic, Microsoft and Google are some of the firms that have developed Generative AI models. Anthropic is a leading Generative AI that believes quality and safety should take precedence over quantity and speed.

2.Literature review

Cecilia Ka Yuk Chan&Wenjie Hu(2023) stated about student's perceptions of Generative AI in higher educations and by understanding their perceptions, policymakers can make create well-informed guidelines and strategies for the responsible and effective implementation of Gen AI tools.

Leonardo Bah& Gero Strobel(2023) stated about latest trends in AI and talked about the importance for researchers and practitioners to understand the features of Generative AI to tackle its capability in decreasing the risks and contribute to a principal understanding.

Rulin Zereng, Jingyuam Cai, Keng Slau&Langtao Chen (2023) wrote detailly about how Generative AI works, opportunities and treats in different sectors of economy like education, healthcare, business, and content creation and analysed about the challenges of Generative AI and talked about human-centred AI collaboration.

Yu-Chang Hsu&Yu-Hui Ching (2023) talked about the uses, benefits, issues, and concerns of Generative AI in education and analysed about dynamic frontier of GenAI.

Objectives

1. To understand the process of how Generative AI works.
2. To analyse the basic understanding of undergraduate on Generative AI and the influence of Generative AI on undergraduate students' lifestyle.

3.Methodology

The study analyses primary data with sample size of fifty people using only undergraduate students as sample. Secondary data is usedfor getting better clarity of work process of Generative AI.

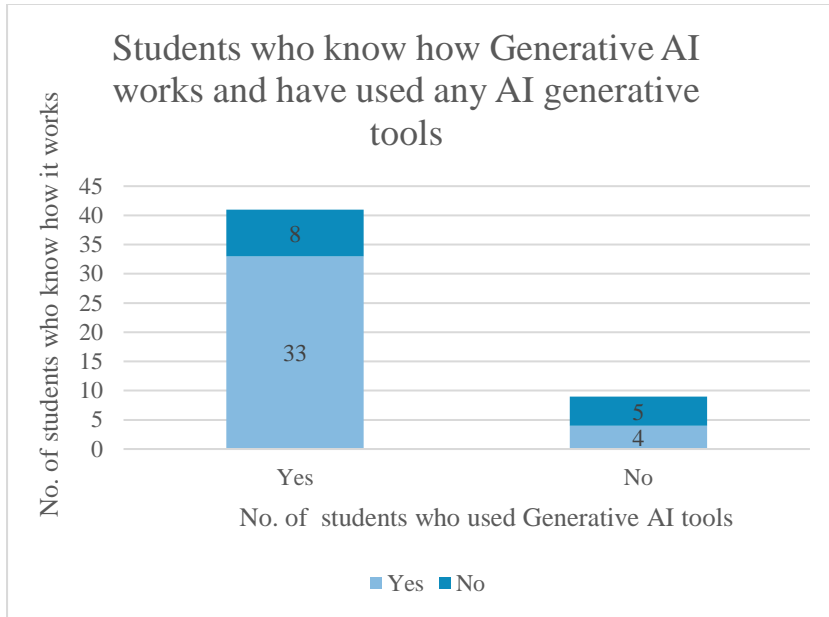
Generative AI

The key to Generative AI is using large language models (computer language) that are trained typically on massive datasets. A large language model is a mathematical formula that assigns a probability distribution over sequence of words like when a sentence given it splits out probability score to indicate the likelihood of a particular sequence of words being correct and meaningful to be used. For example, if you ask chat GPT to complete the sentence “I love to eat pepperoni” the model will assign probabilities of possible words that could allow the algorithm to predict that “I love to eat pepperoni pizza” has higher possibility score than the “I love to eat pepperoni ice cream”. Large language models are critical to Generative AI, they provide the foundation for machines to understand language and create content that was never possible before. With new models coming out all the time that will help in generating images, videos and even music in the future. Generative AI provides information automatically which saves time and resources. The data is provided according to the persons preference and at the same time the content provided by AI may not meet the desired quality and accuracy which leads to issue like deep fakes, infringement can be used malicious purposes like phishing, invasion of privacy for information and unemployment of people. Overall, when it comes to Generative AI the prompt must be specific so that the AI can give content based on our need. Though a common misconception about Generative AI is that it can only generate text audio video and even 3D models but Generative AI general multimodal content.

4.Data Analysis

Students' awareness and usage of generative AI

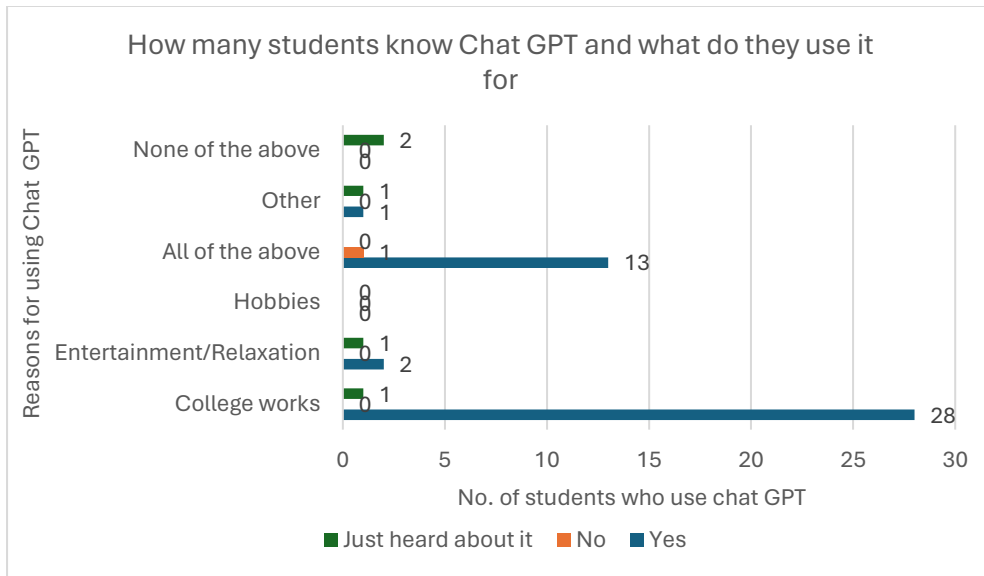
No. of students know how Generative AI works	No. of students who used Generative AI tools	
	Yes	No
Yes	33	4
No	8	5
Total No. of responses	50	



In student life, Generative AI is often used by students for education, and it also works as a friendly companion. According to the status and research 66% of students know how Generative AI works and use them. Whereas 16% of people do not know how Generative AI works but despite that they still use AI tools. 8% of people know how Generative AI works yet they do not use AI tools. 10% of people do not know how Generative AI works and do not use it.

Reasons students use Chat GPT

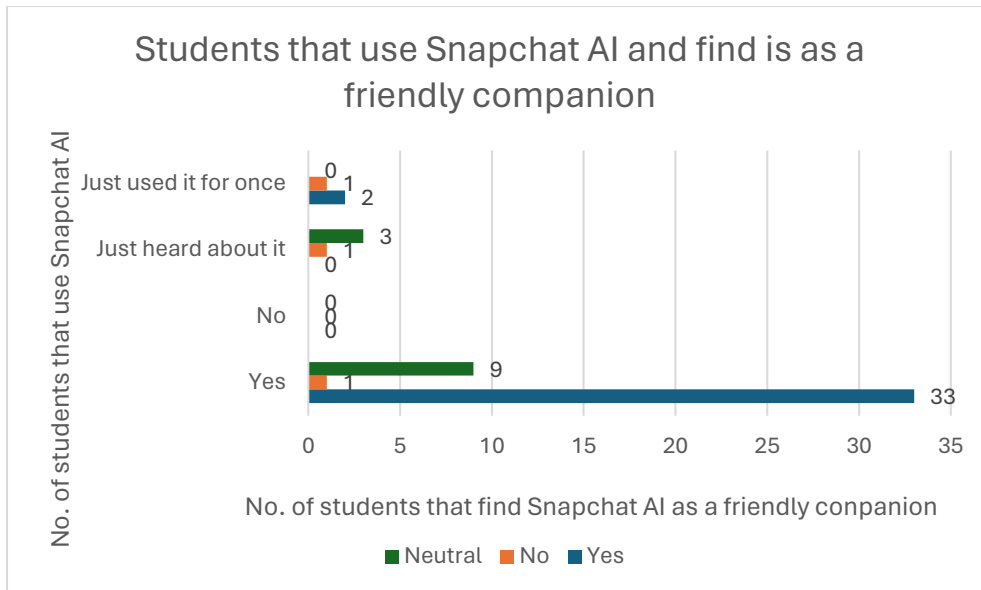
No of students whose Chat GPT	Reason for students using Chat GPT for					
	College works	Entertainment/Relaxation	Hobbies	All the above	Other	None of the above
Yes	28	2	0	13	1	0
No	0	0	0	1	0	0
Just heard about it	1	1	0	0	1	2
Total No. of responses	50					



Chat GPT works by using large neural networks that understand and generative text based on impact it receives. According to the statistics and research, 56 % of students prefer to use Chat GPT for education purpose while 4% of students use Chat GPT for entertainment purposes. 26% of students prefer to use Chat GPT for both education and entertainment purposes. 2% of students prefer to use Chat GPT for other reasons. 6% of students have heard about Chat GPT and its uses.

Snapchat AI as a friendly companion to students

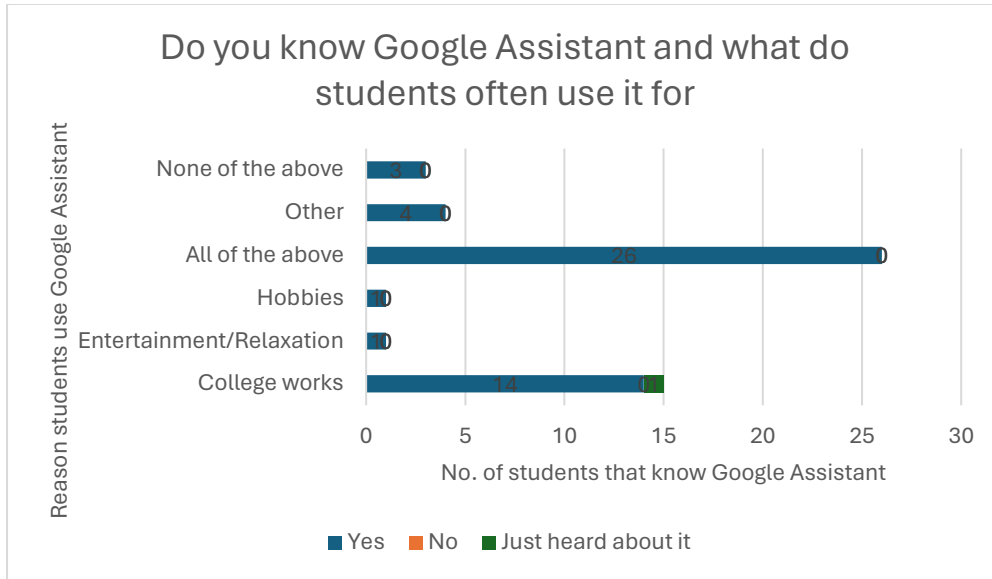
No of students that use Snapchat AI	No. of students that find Snapchat AI is a friendly companion		
	Yes	No	Neutral
Yes	33	1	9
No	0	0	0
Just heard about it	0	1	3
Just used it for once	2	1	0
Total No. of responses	50		



The Snapchat AI (i.e., a chatbot) act as a friend or a human companion. According to statistics and research 86% of students use Snapchat AI and 6% of students have at least tried it while 8% of people have heard about it. Snapchat AI is the more popular AI than Chat GPT and Google Assistant. 70% of students find Snapchat AI as a friendly companion.

Reasons students use Google Assistant

No of students that know Google Assistant	Reasons students use Google Assistant often for					
	College works	Entertainment /Relaxation	Hobbies	All the above	Other	None of the above
Yes	14	1	1	26	4	3
No	0	0	0	0	0	0
Just heard about it	1	0	0	0	0	0
Total No. of responses	50					

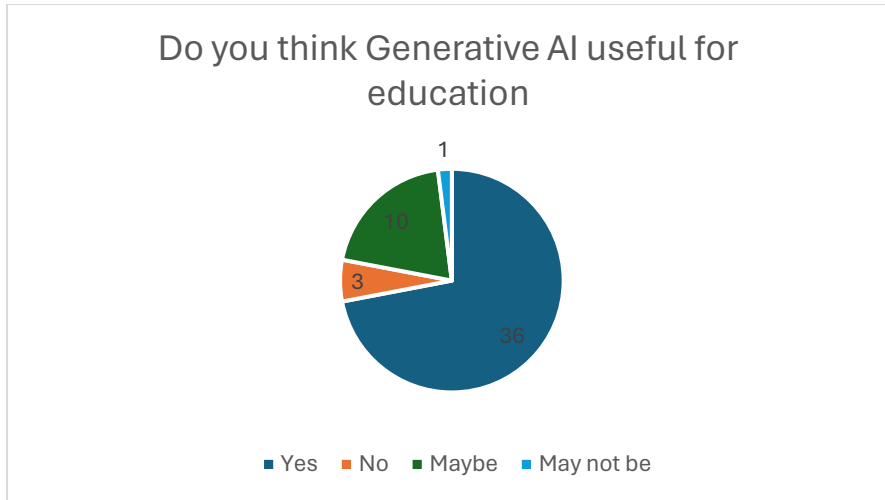


Google Assistant is a smart virtual assistant which uses Generate AI to helps view in tasks like answering questions and control devices through voice commands. According to statistics and research 28% off students use Google Assistant for their college works while 4% of students use Google Assistant for entertainment and their hobbies. 52% off students use Google Assistant for both their education and entertainment purposes. 14% of students use Google Assistant for other work. 2% of students that have just heard about using Google Assistant for their college works.

Generative AI impact on students’ education and its safety

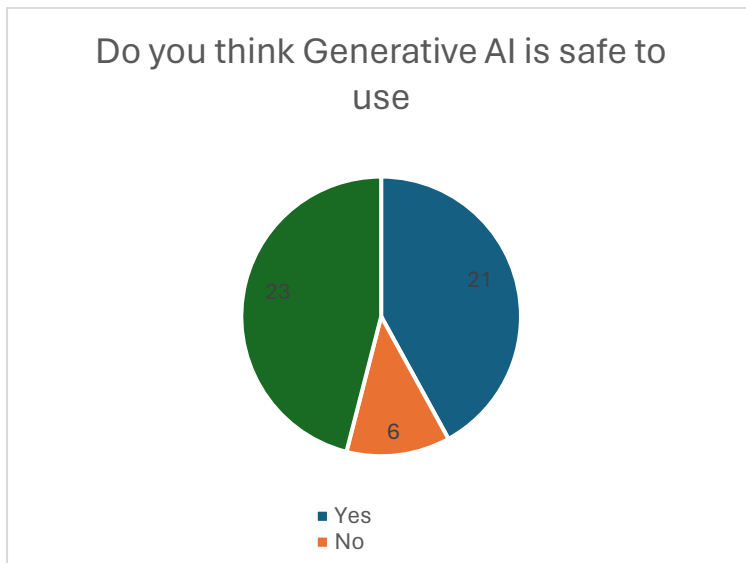
S No	Question	Yes	No	I don’t know	Maybe	Maybe not	Total No. of responses
1	Do you think Generative AI usefullor education?	36	3	Nil	10	1	50
2	Do you think Generative AI is safe to use	21	6	23	Nil	Nil	50

Use of Generative AI in education



Based on statistics and research, 72% of students find Generative AI useful for education and 20% of students believe that it may be useful in some cases while 8% of students do not find Generative AI useful in terms of education. From all the data we can come to a conclusion that AI has the highest impact on undergraduates' education.

Students view on generative AIs' safety.



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Students often use different applications and tools without even considering if the tool is safe or not. Based on the statistics and research, 42% of students find Generative AI safe to use while 12% of students do not find Generative AI safe and 46% of people ignore whether the Generative AI application, they use is safe or not. Despite not having a good understanding about AI students still use it even though they are not sure if it is safe to use or not.

5. Conclusion of the study

In summary, the paper's findings provide a solid proof of the significant impact of Generative AI on student's life, especially in education many students use Generative AI on day-to-day bases sometimes knowingly about how Generative AI works and sometimes unknowingly. The paper also shows how the major impact of AI on student's education but from student's perspective generative AI such as Chat GPT is just a tool that helps gather the important information that they need for their education related works, and it does not matter if the tool itself is safe or not. In terms of being a friendly companion Snapchat AI is highly trusted by the students and out of curiosity students at least try it.

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