

PEER-REVIEW REPORT

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Title: Potential use of large language models for mitigating students' problematic social media use: ChatGPT as an example

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Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input checked="" type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Title reflects the subject. Abstract clearly presents the summary of the manuscript. Keywords are relevant. As it is a an editorial, it does not introduce a methodology, data and analysis rather it is descriptive in nature. On page 3, following strong statement need references. Social media is ubiquitous in people's daily lives, playing an increasingly significant role. Statistical data show that as of October 2023, the global social media user count has reached 4.95 billion, accounting for 61.7% of the global population, and the number of social media users continues to grow at an accelerating pace. Similarly, on page 3, the perspectives need to be defined and clarified in the following statement; Currently, there are two main perspectives on the nature of this concept: one view considers it a nonpathological problematic use behavior [4], while the other view regards it as a pathological addictive behavior. On page 4, define or give exemple of "Currently, the cognitive-behavioral model". On page 5, it seems an overclaim "Large language models (LLM) are deep learning models trained on a large amount of text data (with parameters reaching into the billions), which is capable of generating natural language text or understanding the meaning of text and subsequently



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performing natural language processing tasks such as text classification, question-answering, and dialog", provide the reference. On page 5, the following information is irrelevant that does not contribute to the understanding of explored topic. It should be removed and an account of the use of chatbots and chatGPT in solving communication problems can be included to provide the base for the discussion of the use of ChatGPT in solving problematic social media usage. On page 6 this is choppy "Therefore, ChatGPT can serve as an anonymous communication partner to help those unwilling to reveal their feelings to humans address problematic social media use.". On page 7, these statements are overclaims otherwise should be supported by references; As a chatbot embedded with GPT, ChatGPT can enhance its communication and venting capabilities by better understanding users' emotional states and needs. Unlike traditional chatbots, ChatGPT moves away from rigid, mechanical responses by learning and understanding human language and thought processes. On page 7, "Users can improve the responses by asking additional questions, and through multiple rounds of communication, ChatGPT generates clear, logical, and organized responses." You may want to consider here different levels of difficulty faced by the users in conveying what exactly the users want ChatDPT to do in its generated responses. On page 7, this information seems repititive and can be removed. On page 7, "When individuals encounter problematic social media usage, they can seek relevant information and resources by querying the internet or consulting chatbots to help them understand and resolve the issue." it is unclear what type of problematic use and what type of issue does the ChatGPT can resolve? On page 8, correct it. (gender, age, race, etc.).), On page 8, "This information and resources include the harms of problematic social media usage and the potential benefits of improvement, methods and tools for self-monitoring and evaluation, as well as techniques and strategies for regulating one's state and addressing issues, helping individuals view their social media usage correctly." if it is based on



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observation then provide examples of the strategies and techniques for regulating one's state and addressing issues; and if it's based on the previous studies then provide references. On page 8, "With a foundation of diverse information, users can self-analyze, consciously identify problematic social media usage, proactively establish healthy social media usage habits, and better manage their social media behavior." How? it is justified too late under the next heading as "ChatGPT can analyze users' activity characteristics and perform data analysis during their use of social media. It can monitor the content and quality of what users browse on social media, as well as the duration, time periods, and frequency of their social media usage, to assess the reasonableness of their social media usage and promptly identify problematic usage.". On page 9, relate it to ChatGPT "For example, when Tiktok detects that a user has been watching videos for too long, it may display text prompts and insert public service videos featuring familiar celebrities to encourage users to relax their eyes, engage in physical activity, and spend more time socializing with family and friends. On page 9, relate it to the problematic use of social media instead of presenting general limitations of GPT as "First, ChatGPT may operate based on erroneous data. The data that ChatGPT learns from are sourced from the public internet, including but not limited to webpages, books, social media, and conversational data. Due to the vast amount of data and the limitations in current filtering technologies, ChatGPT often replicates text without reliably citing original sources or authors, leading to the inclusion of biased and erroneous content in the dataset. Second, ChatGPT operates with "hallucinations," which is considered a significant issue in large language models [34]. Many researchers have pointed out that ChatGPT sometimes presents fluent and convincing sentences that contain factual inaccuracies, false statements, and erroneous data". on page 10, it is overclaim unless it is supported with the references, "It may provide inappropriate and erroneous advice to users with problematic social media usage, which not only fails to truly help them but may even cause harm.". On page 10,



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"The initial purpose of collecting data is to serve the users" data collection suddenly appears here, whereas it was discussing problematic use of social media. It should be clarified what type of data and for what purpose? On page 11, these are overclaims whereas, several studies have investigated such issues "If users perceive ChatGPT as a more important communication entity than real people, prioritizing interactions with machines over human interactions could lead them to become increasingly detached from real society, resulting in negative impacts. Overdependence on ChatGPT may hinder normal development and improvement of individuals' critical and independent thinking abilities." so, provide the references. On page 11, "Currently, the delineation of rights and responsibilities for using ChatGPT remains unclear, and there is no corresponding entity to bear responsibility for any adverse effects that may arise from ChatGPT" does not clarify the implications. Updated Privacy policy of chat GPT that will be affective from january 31, 2024, can be referenced here with significant points of concern. On page 13, it is a strong conclusion "The role of professional medical intervention should not be overlooked or avoided simply because of ChatGPT's capabilities. Given the shortcomings of ChatGPT in complex psychological, emotional, sociocultural aspects, it is important to integrate human therapists and others to work in conjunction with ChatGPT to leverage their combined strengths in alleviating problematic social media usage.". But it has never been discussed earlier in the manuscript. such strong conclusion should be embeded and pointed towards a relevant paragraph where interventions by chatGPT and by medical experts should be compareed.