

## The Impact of AI-Human Communication on Transforming Well-Being

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**Abstract**

*In today's rapidly evolving digital age, artificial intelligence (AI) is increasingly influencing our psychological and social well-being. This editorial takes a closer look at how AI technologies are making an impact in critical areas such as education, mental health, workplaces, and social interactions. It specifically highlights the potential of large language models and intelligent tools to enhance our quality of life. While concerns about diminished human interactions and ethical challenges surrounding AI are valid, evidence suggests that when used thoughtfully, AI can contribute positively to mental health, improve educational outcomes, and enrich user experiences this article aims to spark further exploration among researchers and authors into technological innovations can support psychological treatments, cognitive rehabilitation, and social well-being in future studies.*

**Introduction**

Throughout the history of technological advancement, the question has always been how to live in the modern world and at the same time enjoy happiness and mental health. How can we raise children who, while familiarizing themselves with and coexisting with technology, have strong social skills and mental health? Such questions have arisen from concerns about the adverse impact of technology on well-being. These questions have not only concerned social scientists and behavioral scientists but also various experts and decision-makers to explore and brainstorm.

Some critics believe that new technologies may reduce social interactions, reduce physical activity, and even isolate individuals, and ultimately lead to mental and physical disorders instead of increasing health and happiness.

Although these concerns are worth considering in some cases, a large part of them is due to a misunderstanding of the nature of technology and how to properly use it. If public awareness about these technologies and their proper use is not increased, negative consequences and challenges will also be inevitable. On the other hand, if appropriate educational platforms are created and digital literacy is promoted, the benefits of these technologies can be used to improve the quality of life.

In recent years, the world has witnessed one of the fastest technological developments in human history: the emergence and spread of artificial intelligence. Initially used in specific sectors of industries and businesses, this technology quickly penetrated other aspects of social and professional life. Today, various companies and organizations are trying to use the capabilities of this technology as a competitive advantage.

As public awareness about the benefits and widespread applications of artificial intelligence has increased, concerns about its negative impacts have also decreased. It is now clear that this technology is not only an integral part of people's professional lives but also has the potential to bring significant improvements in many areas, including education, health, business, and human interactions. Therefore, responsible institutions and policymakers are also developing ethical frameworks and regulatory standards for its optimal use.

This article, focusing on the applications of artificial intelligence in promoting mental health and well-being, examines some of the author's views on the most important developments in this technology and briefly mentions some of the roles of large language models and artificial intelligence tools in the service of well-being.

**Applications of Artificial Intelligence in Improving Psychological and Social Well-Being**

These days, the applications of artificial intelligence technologies have expanded greatly, and as mentioned, many companies and industries are competing with each other on the beneficial use of these facilities. But what is the focus of the article is its possible effectiveness, directly or indirectly, on well-being and well-being. If some critics consider the increasing growth of these technologies to be the reason for increasing stress in society, social distancing and isolation, and the prevalence of mood disorders and other problems, here is evidence based on research data that shows that the concerns are not very logical!

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Here, a few of the many applications of artificial intelligence in the service of public health and the well-being of society are briefly reviewed.

### **Artificial intelligence in educational environments**

One of the most important functions of artificial intelligence in the field of education is the possibility of personalized learning paths for students. International research has shown that personalizing the learning process can have a significant impact on increasing self-esteem, confidence, and motivation, and reducing stress caused by social comparison (Brown et al., 2022).

For example, educational platforms such as \*Coursera\* and \*Khan Academy\* use intelligent assessment systems that provide personalized recommendations based on learner performance. These tools not only help increase the quality of learning but also increase learner confidence and reduce anxiety.

In addition, artificial intelligence can reduce teachers' workload and reduce their job stress by providing automated assessment systems and teaching assistants. According to a study published in the \*Journal of Educational Psychology\*, the use of AI-based learning management systems has led to a 30% reduction in teacher workload and increased educational efficiency (Johnson & Lee, 2023).

### **Artificial Intelligence in Medicine and Mental Health**

Integrating new technologies such as virtual reality (VR), and artificial intelligence has helped improve treatment methods and has been used as an auxiliary tool for specialists in the treatment and diagnosis of diseases. According to a study in \*The Lancet Digital Health\*, the use of AI-based tools for early diagnosis of mental illnesses and management of anxiety disorders has increased the success rate of treatment by 45% (Smith et al., 2023).

For example, some psychotherapy clinics use virtual reality systems for exposure therapy for patients with phobias, anxiety, and PTSD. In this method, patients are placed in simulated environments to face and manage their fears.

Also, AI-based tools help doctors diagnose diseases more accurately by analyzing medical images. For example, AI-based cancer detection systems have been able to achieve higher accuracy than human detection in some cases (Gupta & Sharma, 2022).

### **Artificial Intelligence in Industrial and Organizational Environments**

In organizations and companies, AI can help improve employee well-being. Studies have shown that the use of AI-based mental health monitoring systems has reduced job stress and increased employee satisfaction (Chen & Wang, 2023). Some companies use this technology to assess and relieve employee fatigue and mental stress and, based on the results, offer solutions to improve working conditions. For example, large companies

such as \*Google\* and \*Microsoft\* use intelligent algorithms to suggest personal development programs and optimize business processes. This process seems very useful for assessing burnout, job stress, variables that hinder employee motivation, and factors that inhibit professional productivity.

### **Artificial Intelligence as a Research Assistant in Higher Education**

Scientific and academic research has also benefited from advances in artificial intelligence. Artificial intelligence-based tools have enabled the processing and analysis of large volumes of data, which has led to a reduction in the time it takes to collect and process information (Sengupta & Chaudhury, 2023).

For example, the use of machine learning algorithms in genetic studies has increased the accuracy of biological data analysis and accelerated the process of discovering disease patterns. This is an amazing development that both increases the speed of information processing and focuses on the sensitivity and accuracy of the information collected. This trend is a big step towards the prevention and treatment of many diseases. Therefore, it is foreseeable that shortly, the neglect resulting from the diagnosis and progression of many diseases will decrease.

### **The role of artificial intelligence in parenting and homeschooling**

Today, parents can use artificial intelligence tools to help educate their children. These tools can be especially useful for families who use homeschooling methods. Smart apps like \*Duo lingo\* and \*ABCmouse\* use artificial intelligence to personalize educational content and optimize children's learning processes. Research has shown that using these apps can increase learning productivity in children by 25% (E. Johnson & M. Lee, 2023). Such findings show that parents updated with the correct use of artificial intelligence in education have less concern about educating their children at home. Whether those who send their children to educational centers and schools and take on a small part of their children's education themselves or those who use the homeschooling system and take on the entire educational process of their children themselves. Especially for the second group, AI acts as a high-speed partner with information and guides parents step by step on the path to proper education and choosing the right educational programs.

### **Interaction of AI tools with humans: Communication and emotional dimensions**

If we look at AI technologies from the perspective of human communication and emotional dimensions, we will witness significant developments in the ability of these tools to identify human emotions and provide empathetic responses. Advanced AI models are now able to not only analyze users' emotions but also use empathetic language and responses in their interactions.

As a concrete example, we can mention language learning applications that are used on smartphones. These applications

sometimes evoke an experience similar to interacting with a real teacher or coach for users. For example, when a user expresses concern about their progress, these systems help create a sense of security and boost their motivation by providing empathetic responses. AI algorithms, considering the need for self-esteem and motivational factors, select sentences that maintain the user's morale and encourage them to continue on their path.

Today, AI, by utilizing voice and image analysis technologies, can identify users' emotions and provide appropriate responses based on them. This capability plays a significant role in improving the user experience and increasing positive interactions with technology.

For example, virtual assistants such as Siri and Google Assistant can detect the user's emotional state through voice tone analysis and provide appropriate responses. Also, some language learning applications, when receiving feedback from users, try to strengthen their motivation to continue learning with empathetic and encouraging sentences.

International studies have shown that empathetic interaction between AI tools and users has a positive impact on increasing trust in these technologies and improving users' mental health (Garcia et al., 2023).

In addition, research published in the Journal of Human-Computer Interaction shows that advanced natural language processing models that can understand users' emotions have been up to 40% more effective in improving user interactions with systems than traditional models (Kim & Roberts, 2023). Therefore, with current advancements, AI has not only become a practical instrument in educational and professional fields, but it also plays an inevitable role in emotional dimensions in creating a more human experience and a deeper connection between customers and technology.

### Conclusion

Artificial intelligence offers remarkable opportunities to improve our quality of life and mental well-being. From transforming education and healthcare to enhancing workplace environments and social interactions, AI has the potential to create a smarter, more supportive world. The excellent consequences of such services and cooperation with humans from these unique and intelligent systems can lead to greater peace of mind in people and relieve stress caused by poor performance in areas of life, some of which are mentioned in the article.

However, the success of this technology hinges on developing ethical frameworks and evidence-based policies.

The key to a positive AI-driven future lies not only in technological advancements but also in our collective responsibility to manage and apply these tools thoughtfully.

By prioritizing ethical practices and fostering collaboration among researchers, policymakers, and educators, we can ensure AI contributes positively to human connections and well-being.

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