

Navigating Challenges of and Resistance to the Evolution of Artificial Intelligence

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Healthy Minds and Healthy Bodies Make Healthy Communities

Abstract: *Artificial Intelligence (AI) advances drive human adaptability and innovation, shaping education, healthcare, and societal structures. AI fosters equity, inclusivity, and productivity but presents challenges like ethical dilemmas, biases, and privacy concerns. This article explores AI's role in evolution, its transformative impact on industries, and the need for responsible integration to address disparities and promote sustainable progress.*

Keywords: Evolution, Artificial Intelligence, Education, Healthcare, Ethical Challenges.

1. Introduction

Evolution is a fundamental process that reinforces the diversity and flexibility of life on Earth which leads to greater ecosystem stability and improvements. Awareness and actual adaptation to changing environments, procedures, and technologies enhance chances of survival. Evolution promotes innovation through new traits and behaviors. Artificial intelligence is part of evolution, but it is not accepted and welcomed by everybody. The emergence of Artificial Intelligence represents a contemporary transformation force in various industries and daily life, including Education and Health, but at the same time, it creates ethical issues, related to accountability and transparency. All major technological innovations lead to a variety of positive and negative consequences. Technologies like computers, smartphones, and artificial intelligence we interact with are very recent innovations, and most changes are still to come. Computers and artificial intelligence have changed our world immensely, but we are still in the early stages of this history, which is certainly true of artificial intelligence. This technology will become more and more powerful, and we should expect its impact and consequences to increase. (Marcello M Et. al.2023). Artificial intelligence has already changed what we see, what we know, and what we do and how we do things. Because of the importance of AI, we should as much as possible understand how this evolution is changing our world and assess where this technology is heading. Society tends to reject new technologies when they are concerned with the social and economic, rather than looking at the development from an evolutionary point of view, the enhancement of humanity, how they impact and will impact the future of our world, of our lives and much of what will become possible is yet to come. They enhance our humanity in ways that we could not anticipate when introduced in the early 1980s. Resistance to new technologies is heightened when the public perceives the benefits only for a small section of society and doesn't recognize the evolutionary benefit for humanity. Remember the introduction of cell phones? Smartphones are no longer just a communication tool for the rich but they are used by the rich and poor, banks, schools, clinics, and vehicles. A dilemma is experienced in society whether the new development undermines current actions and practices and society does not consider how it can reinforce and cultivate better ways of living. AI can create Identity threats among persons and group

of persons including professionals, teachers, and health professionals because it can create threats to their own perceived value, meanings, or their professional identity. Such feelings or experiences can possibly decrease their perceived value, changing or eliminating the meaning the individual associates with his or her identity. Reshaping one's identity is a tough process which requires redesigning at least two parts of an individual's identity their personal identity and professional identity which affects also their social identity. This article aims to explore the transformative impact of Artificial Intelligence on education, healthcare, and societal evolution while addressing the challenges of integration and resistance.

2. Review and Observations, Artificial Intelligence and Evolution

At First glance the correlation between Darwin's theory and AI may seem inappropriate, but the principles underlying natural evolution have profound parallels in the world of survival learning and AI development. Darwin's theory postulates that species evolve over long periods through random mutations and natural selection. At its simplest, Darwin's theory states that evolution is driven by small variations in traits that are amplified by natural selection. Organisms with beneficial traits are more likely to reproduce consequently survive and pass on traits to offspring than are organisms that have unfavorable traits. Artificial intelligence (AI) is evolving because researchers have created software that borrows concepts from Darwinian evolution, building programs that will improve generation after generation with creative human input. Remember the phrase "survival of the fittest," those who adapt to the new environment will survive. But from an ongoing evolutionary point of view, new technologies are essential to foster economic growth, meet developing human needs, and protect and enhance the environment. The personal computer introduced in the early 1980s, in some circles, caused resistances, fears, anxieties, and even hostilities. Which business organization and persons can now do without it? The world needs to get smarter about using artificial intelligence. Educators must help the current and the next generation face the reality of the emerging world and navigate this reality with integrity. Students are aware of artificial Intelligence, and are already experimenting and using it, but need education and guidance about how to use it responsibly. Logically, some people feel anxious about AI

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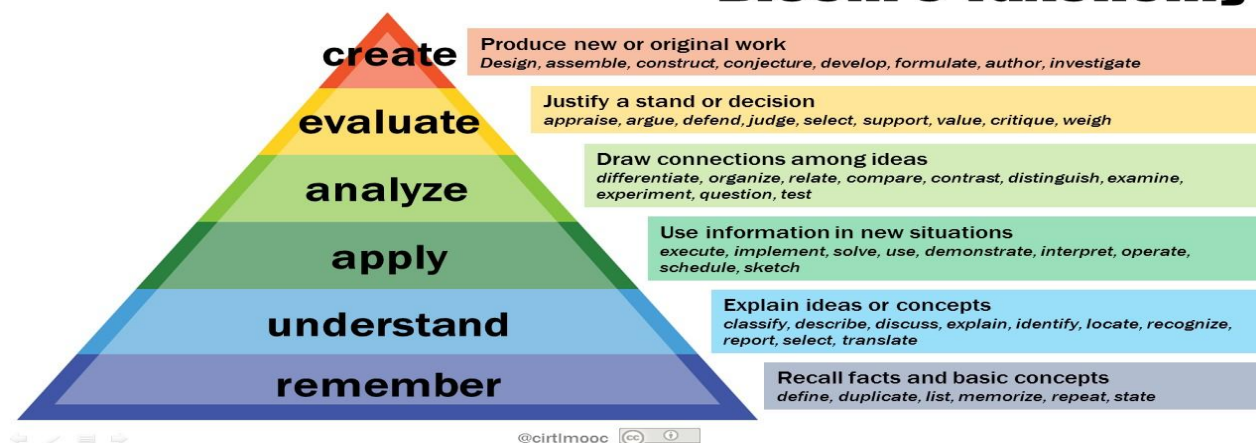
focusing on the fact that the technology seems to outperform us and we will lose our jobs, however, we cannot stop evolution. The world needs to alleviate their fears and come to a motivating attitude to embrace this evolution and go into a higher gear and technological reality. AI field will face more problems, such as privacy and personal data protection, ethics of use, which comprises algorithmic bias, transparency, and the socio - economic impact of job displacement. Solving challenges in Artificial Intelligence calls for interdisciplinary cooperation and defining regulatory policies. It will transform industries and redefine human interactions, but it is inclined to face challenges to meet current and new ethical commitments. The main problems of deploying AI systems are security and confidentiality. The risk of data security and privacy violation is growing, thus requiring stronger regulations and frameworks to protect sensitive information. Finding a balance between technological development and moral issues is essential to using AI for societal benefit while avoiding risks and encouraging ethical innovation AI increases the concerns over the loss of jobs and a persistent issue of economic inequality, which calls for steps to re - skill the workforce and address social and economic disparities. Evolution in the natural world has produced remarkably intelligent species including humans. Artificial intelligence and its impact on life is an open - ended evolution. This requires success in three domains: role transitions, socialization, and identity. Role transitions prove that identities change as an individual makes progress in adapting to the new circumstances or development. In business, employees are increasingly obliged to recognize and adapt their professional identity to navigate and survive in the complexities of working life. Socialization, changes the socio - cultural approach emphasizes that identity is negotiated in mutual interactions between individuals and developing social settings. Additionally, professional identity is often theorized concerning psychological, sociological, and postmodern viewpoints We need to realize that AI is already everywhere and the emergence of a forced adaptation in academic institutions and professions has given rise to

tensions between one's professional self and work setting. An example not everybody is aware of is when one books a flight, it is often artificial intelligence, no longer a human, that decides what you pay. When you need to and get to the airport, it is an AI system that monitors what you do at the airport. And once you are on the plane, an AI system assists the pilot in flying you to your destination.

Acceptance of Artificial Intelligence depends on education and training.

There are promising opportunities for AI in education included in school curricula, discussing its use, risks, the risk of using algorithmic bias results, and strong technology guidance. AI has the potential to address these challenges in education and innovate teaching and learning practices. However, rapid technological developments certainly bring multiple risks and challenges, which have so far outpaced policy and regulatory agendas. AI can transform education systems and make them more reasonable. It can accelerate the long overdue transformation of education systems towards inclusive learning that will prepare young people to thrive and shape a better future. AI is addressing current inequalities regarding access to knowledge, research, and the diversity of cultural expressions. Educators have to ensure that AI does not widen technological use within and between countries. Everyone must be able to take advantage of the technological revolution underway in terms of innovation and knowledge and students of all backgrounds can take advantage. Plagiarism must never be accepted, paraphrasing is allowed. This is easily done by students who have access to paraphrasing software. This will move the education process and requirements to a higher level or skills gear. Looking at a set of hierarchical models used to classify educational learning objectives into levels of complexity and specificity. Bloom's Taxonomy, this hierarchical model categorizes learning objectives into varying levels of complexity, from basic knowledge and comprehension to advanced evaluation and creation, from recalling facts to producing new and original work forces a better on the higher learning objectives namely, apply, analyze, evaluate, and create.

Bloom's Taxonomy



The introduction of AI forces educators to focus more on discussing and stimulating innovative strategies through creative instructions, assessments, testing and evaluations, such as comparing and illustration of connections, appraising, judging,

Artificial Intelligence and Health

AI algorithms offers a breakthrough opportunity in health including mental health through more precisely detecting, diagnosing, classifying, and improving prognosis and treatment and AI has the potential to fundamentally transform the practice of medicine and the delivery of healthcare and it

is increasingly employed in healthcare fields such as oncology, radiology, and dermatology. It has already been presented to assist health providers, including psychiatrists and psychologists in decision - making based on patients' historical data e. g., medical records, behavioral data, social media usage, etc. (Su, C. et. al, 2020). However, the use of AI in mental healthcare and neurobiological research has been modest. (Bajwa J et al.2021) AI is a means to reduce the costs, improve the quality, facilitate the accessibility, and promote the equality of health. However, resistance has historically been considered a salient obstacle to success despite considerable efforts to understand and manage resistance particularly as artificial intelligence continues to evolve. Persons who get medical information from Google and now even more in - depth informed using AI. This requires an adaptation of health workers' professional identity which in some cases are still resistance to using the technology. The acquired knowledge by patients can be experienced as a threat to health workers' expert status his or her professional recognition and as a threat to the health worker's role as an autonomous care provider with her or his professional capabilities. Both threats to professional recognition and threats to professional capabilities can contribute to perceived self - threat and resistance to AI. A study found that medical students experienced stronger identity threats and resistance to AI than established medical professionals. (Jussupow E et. al 2022) This result shows that the distinct dimensions of medical professional identity are affected by the upcoming AI technological change. Both threats to professional recognition and threats to professional capabilities can contribute to resistance attitudes toward AI and need to be considered in the implementation of AI systems in clinical practice. Despite resistance attitudes in some circles, the benefits of AI, and the great expectations toward their future use, do create positive reactions in medical professionals. (Idroes, Ghazi 2023) AI is emerging as a key force for transformation in healthcare systems around the world facing challenges such as escalating costs, limited access, and growing demand for personalized care. AI inspires an interdisciplinary approach of researchers, clinicians, and technologists to navigate the complexities of promoting the development of AI - driven solutions that prioritize ethical standards, equity, and a patient - centered approach. (Maleki Varnosfaderani S, Forouzanfar M.2024)

3. Discussion

Highlighting AI's evolutionary role underscores its potential to bridge global disparities and advance equitable growth. Extremely important is that privacy is protected and promoted throughout the AI lifecycle. Adequate data protection agendas should be established. Advances in artificial intelligence require transforming education, healthcare, and societal structures and making them more equitable. It can accelerate the long overdue transformation of these structures that will prepare young people to thrive and shape a better future. However, rapid technological developments inevitably bring multiple risks and challenges, which have so far outpaced policy debates and regulatory frameworks. It will prepare young people to thrive and shape a better future and teachers at the same time can use these technologies to enhance their teaching practice and professional experience and rethink the purpose of our education systems, rooted in an understanding of today's realities, our aspirations for sustainable

development, and our belief in the importance of every child, particularly the most marginalized. In the health sector, integrating AI into clinics and hospitals requires a paradigm shift in how medical care is delivered and managed, it also necessitates focusing on the impact on clinical decision - making, medical and psychological diagnostics, and patient care, raising ethical considerations. Trusting AI is needed and the foundation for trust is transparency, reliability, and accountability, expected to improve the delivery of consistent performance and correct results. Accountability constitutes taking responsibility for outcomes resulting from AI, as well as dealing with biases and errors. (Montag C et. Al.2024) From an evolutionary perspective, the AI advance creates an inviting environment for growth and development. Evolutionary psychology advocates that humans are naturally inclined to acquire and adapt and especially young ones will practice and admire new developments because it assists them to increase their knowledge and improve their skills. This new environment and innovations foster new challenges and skills, part of the ongoing evolution of mankind and its brains. It should also strengthen social cohesion not weaken it, because it can lead to improved, enhanced productivity. The new developments, encourage adaptivity, flexibility resilience and skills, evolutionary psychology focusses on and emphasizes. Mental health, mental development has always been a significant resource and source of human evolution. However, process transparency and accountability are essential for long - term development not to widen economic and cultural differences but to close the gap between developing and developed countries. These evolutionary developments should leverage insights and productivity and create growth and development all over the world.

4. Conclusion

Artificial intelligence is a contemporary, excellent evolutionary reality, a development that is already impacting all of us. The wide range of applications ensures that this technology just like computers and smartphones, eventually changes the world and will be used by everyone. AI represents a pivotal force in modern evolution, offering immense potential in education, healthcare, and societal development. While challenges like ethical dilemmas and disparities persist, fostering adaptability, resilience, and inclusive strategies ensures a sustainable path forward. Embracing this evolution is imperative for humanity's collective growth and educators, classroom teachers, health systems, health providers, and social structures all over the world need to and should re - evaluate their purpose and the huge options and implications of AI evolution. We must understand how we want the technology to be most effective because evolution can never be stopped. Humans have no choice other than adjusting, becoming smarter keener, and more intelligent in using evolutionary developments in the light of survival.

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