



THE TRANSFORMATIVE IMPACT OF ARTIFICIAL INTELLIGENCE ON FUTURE SOCIETIES

Turaboeva Mohlaroyim Husenovna

*Student, Academic lyceum of Navoi State University of Mining and
Technologies*

Toshbotirova Mashxura Nasriddinovna

*Student, Academic lyceum of Navoi State University of Mining and
Technologies*

Bobomurodova Mohinur Bahriddin qizi

*Teacher, Academic lyceum of Navoi State University of Mining and
Technologies*

Abstract: *Artificial intelligence, or AI, has changed many societies around the world by making things like healthcare, education, and communication better at automating tasks, boosting productivity, and finding solutions to problems. AI has made life better in many ways, like helping doctors make better diagnoses, making robots for medical purposes, and making learning more personal. AI has changed many societies in many ways, but it has also caused new problems for many communities.*

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1. INTRODUCTION

Artificial intelligence is when a computer or machine can do things that people can do. This means it can learn and figure things out. It can also solve problems. Make decisions. Artificial intelligence is a part of computer science. It is about making software that can understand what is happening around it learn from it and make choices to get what it wants. Artificial intelligence includes things like learning, reasoning, solving problems seeing things and making decisions.



Artificial intelligence is also a way to make computers and machines smarter. This is done by studying and creating instructions that computers can use. These instructions help the computer understand what is going on and make choices to reach its goals. Artificial intelligence is really good, at doing tasks that usually need intelligence (Wikipedia, no date).

Artificial Intelligence is when machines can think like people. These machines can learn from what they do. Figure things out on their own. Lately people are talking about Artificial Intelligence as a change that is happening in many areas of life like businesses, economies and communities all around the world. Artificial Intelligence is really good at handling a lot of information making guesses and automating tasks in a smart way. Because of this Artificial Intelligence has made many industries work better be more accurate and come up with ideas. In areas like making education fit each persons needs creating better healthcare making financial systems smarter and improving how we communicate Artificial Intelligence is changing how our societies work and grow. Artificial Intelligence is doing this by making things easier and more efficient, for people (3DBear, no date).

2. LITERATURE REVIEW AND METHODOLOGY

Artificial Intelligence (AI) is poised to fundamentally transform both economies and societies, presenting a combination of opportunities and challenges. Economically, AI drives productivity and innovation through automation and advanced computational capabilities, as emphasized by Brynjolfsson and McAfee (2014). At the same time, concerns about job displacement and the automation of routine tasks, highlighted by Frey and Osborne (2017), indicate that labor markets will undergo significant restructuring. To reduce economic inequality and get the most benefit for society, these changes require specific policies and programs to retrain workers.

AI has a big impact on society as well. AI technologies, such as predictive analytics and personalized treatment systems, could improve patient outcomes and make it easier for doctors to make decisions in healthcare (Muller, 2017). In education, AI-enabled adaptive learning platforms can deliver personalized



instruction tailored to individual student needs, enhancing engagement and learning outcomes (Kelleher et al., 2015). These applications demonstrate how AI can support more effective and inclusive societal systems.

Ethical considerations are central to AI's integration into society. Hernández-Orallo (2018) underscores the importance of addressing algorithmic bias, fairness, and transparency, emphasizing the need for robust ethical frameworks and governance to ensure AI aligns with societal values. Failure to do so could exacerbate social inequality and entrench discrimination.

AI is a deal and it also creates some big problems. So we have to deal with the problems that AI is causing, like how it can change the workforce and how it can be biased. This means we need to focus on making rules and policies for AI. Some people have been studying how AI is affecting our lives. They have been talking to experts and looking at how companies are using AI. They did this by sending out surveys and looking at cases where AI is being used. What they found out is that AI is going to have an impact on our society, in the future. AI is something that we need to think about and AI is going to change a lot of things.

As Rawas (2024) argued, AI presents significant ethical and societal considerations, including job displacement, privacy concerns, bias mitigation, and the balance between human autonomy and technological influence, while also offering opportunities for economic growth, innovation, and entrepreneurial development. This study examines the components of Artificial Intelligence by evaluating its challenges and benefits, analyzing the requisite rules and systems for its functionality, and assessing its impact on individuals, employment, and enterprises. The research is conducted by reviewing articles from experts, reports, and reputable websites to establish a robust foundation for the study. Putting all of these things together, the study can tell us how AI can change things and help people who make decisions. Scholars and professionals should use AI in a good and responsible way.

3. RESULTS



The impact of Artificial Intelligence on society is really interesting. Artificial Intelligence can make things more efficient. Help us get more work done in places like healthcare and education. Artificial Intelligence can do things on its own like solve problems and make people better at what they do. This can really change these areas for the better. The pie chart shows what Artificial Intelligence is used for. Most of the time it is used to figure out how well someone is learning, how they are. If they are happy with something. This is sixty six percent of the time. Then twenty two percent of the time Artificial Intelligence is used to suggest things that might be helpful. It is also used to grade things and to make learning more enjoyable. Each of these is used six percent of the time. To really benefit from Artificial Intelligence we need to make rules to ensure that Artificial Intelligence is used in a way. We also need to teach people skills so they can keep up with the changing work world. It is also very important to make sure that Artificial Intelligence helps everyone, not some people. We need to do research, on new Artificial Intelligence technology and how it will affect society in the long term. Artificial Intelligence is something that we need to keep learning about so we can understand how it will change our lives and our society (Behailu, 2023).

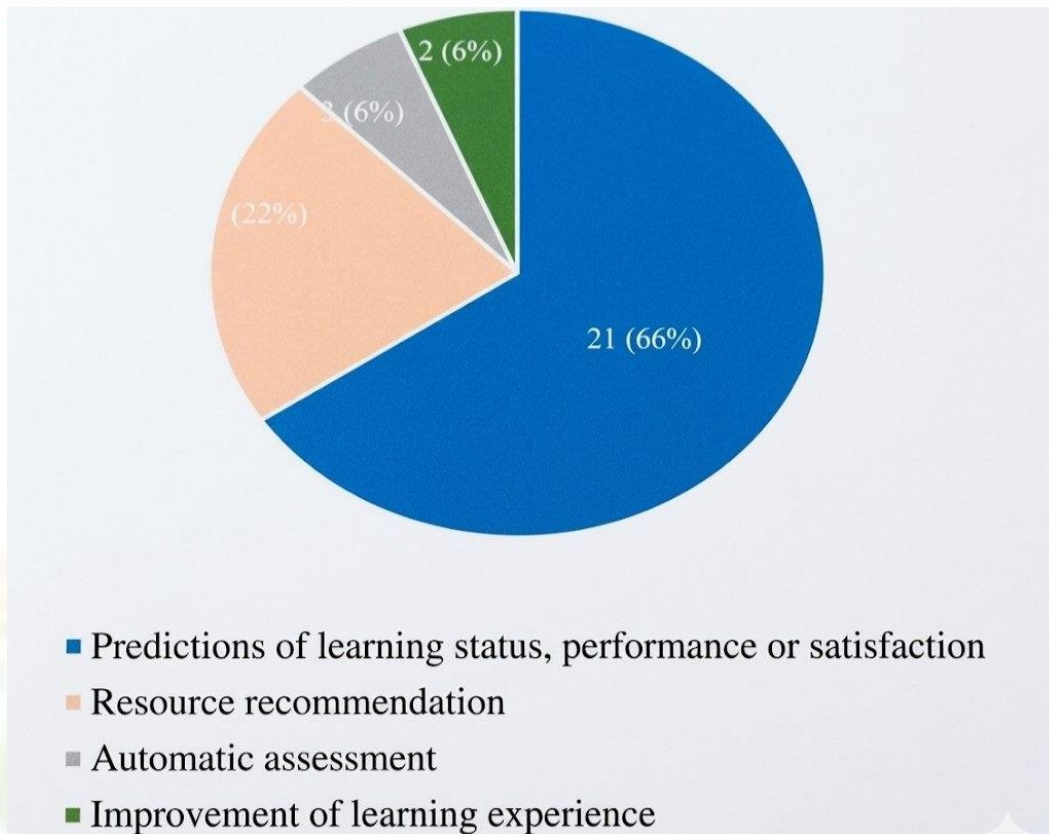


Figure 1: The pie chart of the functions of AI applications (Behailu, 2023, p. 3124)

Building on the arguments of Rawas (2024), the findings highlight that artificial intelligence entails both substantial challenges and promising opportunities for society. The main problems with Artificial Intelligence include people losing their jobs problems with data privacy, bias and making sure that humans are still in charge in a world with a lot of technology. Artificial Intelligence can really help with growth new ideas and people starting their own businesses. There are some rules that need to be followed so that Artificial Intelligence is used in a responsible way, including being transparent being accountable and following ethical standards. It is clear from this study that Artificial Intelligence has an effect on society the job market and businesses so institutions and organizations need to be able to adapt. This study looked at a lot of sources and found out how Artificial Intelligence is changing things so it can provide some useful information, about the impact of Artificial Intelligence.



Bostrom (2014) argues that advanced AI could surpass human intelligence and fundamentally reshape civilization, creating both unprecedented opportunities and existential risks if not properly controlled. Similarly, Whittlestone et al. (2019) emphasize that “transformative AI” will significantly alter economic structures, governance, and societal values, even without reaching full human-level intelligence. Together, these studies underline that AI’s long-term impact depends on effective alignment, ethical governance, and proactive global cooperation.

4. DISCUSSION

Artificial intelligence (AI) is rapidly reshaping human society, having both beneficial and detrimental effects. One of the detrimental effects of AI on society is its capacity to substitute human jobs across multiple sectors, including manufacturing, retail, and administration. Tasks that are routine and repetitive, which previously needed human labor, are being automated more and more, leading to fewer job opportunities and possibly eroding human skills and diligence (Liang, 2020). This technological disruption increases economic inequality, as the wealth produced by AI often accumulates among investors and tech developers, broadening the divide between the affluent and the impoverished, leading to an “M-shaped” wealth distribution (Autor et al., 2021). Furthermore, as AI systems become increasingly autonomous, there is a risk of loss of human control, which could lead to unintended outcomes, including biased decision-making or ethically questionable actions (Whittlestone et al., 2019). This trend also has negative implications for social cohesion, as human interaction may be reduced in favor of AI-assisted communication.

On the other hand, there are significant positive implications of AI use, especially in healthcare and productivity. For example, AI increases diagnostic accuracy by quickly processing complex medical data and offering various treatment options for physicians to select from (Liang, 2020). Sophisticated robotic systems, such as the da Vinci surgical system, enable minimally invasive procedures, enhancing precision while reducing patient trauma, blood loss, and recovery duration. Therapeutic robots powered by AI improve the living standards of the elderly and



those with physical disabilities by providing companionship, assisting with everyday tasks, and promoting social engagement (Brandão, 2025). Additionally, AI mitigates human fatigue and errors in various professional contexts and supports virtual healthcare, allowing specialists to assess patients remotely, thereby expanding access to medical services (Capraro et al., 2023).

Artificial intelligence plays a vital role in improving human well-being regarding healthcare, efficiency, and life quality. Sophisticated diagnostic equipment and smart surgical and therapeutic robots contribute to delivering accurate, efficient, and minimally invasive healthcare, whereas social assistive robots aid in fulfilling emotional and physical human requirements. This demonstrates its ability to improve societal progress and guarantee equal access to fundamental human requirements by removing human mistakes, exhaustion, and inefficiency, leading to outcomes that are safer, quicker, and more precise.

5. CONCLUSION

Artificial Intelligence: A Transformative Influence in Contemporary Life, as Artificial Intelligence is significantly altering our daily existence. It provides us with chances in numerous fields. There are also several issues associated with it. When we examine the economy, Artificial Intelligence enables us to accomplish tasks more quickly and efficiently. It streamlines tasks, addresses issues, and enhances people's job performance. This facilitates the smooth operation of industries, offices, and services. Moreover, Artificial Intelligence provides us with quick and precise outcomes.

On one side, Artificial Intelligence is aiding us in healthcare as well. It provides us with machines to identify diseases, perform surgeries on individuals, and attend to them using robots. This implies that we can provide care, reduce errors, and assist those in greatest need. Artificial Intelligence also enables us to deliver healthcare to individuals in remote areas. However, Artificial Intelligence does come with some drawbacks. It can substitute employees, enhance the wealth of the rich, deepen the poverty of the poor, and cause us to lose connection with one another. Next, there are devices capable of making independent choices.



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