

The Place of Artificial Intelligence in Various Industries and Education

Joldasbaeva Ayzada Baxram qi'zi'

*1st year of Master's degree, Nukus State Pedagogical Institute named after Ajinyaz
(Nukus, Republic of Karakalpakstan)*

Abstract: *This article discusses how artificial intelligence has affected various industries and speculates on its future opportunities and threats.*

Keywords: *Artificial Intelligence, Information Technology, Use of Artificial Intelligence, Liability, Legal Mechanisms.*

Artificial Intelligence (AI) is one of the technological advances that has brought great changes to all spheres of human life in the last decade. The development of information technology not only contributes to revolutionary changes in science and technology, but also has a significant impact on our daily lives. With the use of information technology, work efficiency has increased in many areas, the healthcare system has improved, and new teaching methods have been introduced. However, the use of artificial intelligence raises a number of ethical issues in society. In this article, we discuss the impact of artificial intelligence on human life, its opportunities, and future challenges.

Artificial intelligence is fundamentally changing the labor market. The process of automation is replacing human labor in repetitive tasks in many manufacturing industries and increasing productivity. Artificial intelligence has enabled robots to perform dangerous and complex tasks, freeing workers from physical labor and allowing them to focus on services that require creative or analytical skills. Artificial intelligence is having a major impact on the transformation of the labor market.

As a result of the introduction of automation in the manufacturing and service industries, many jobs have been taken over by machines. On the one hand, this increases production efficiency, and on the other, it reduces the demand for human labor.

Professions that require simple physical labor, such as cashiers, production workers, and drivers, may be eliminated as a result of robotization. In addition, artificial intelligence also helps create new jobs. New professions are emerging, such as programmers, data processing specialists, and information technology specialists, which will allow people to acquire new skills in the future.

Artificial intelligence is making significant changes in the healthcare sector. For example, thanks to artificial intelligence, the accuracy of diagnosis and early detection of diseases has increased. Artificial intelligence systems that can analyze X-rays and MRI images help doctors and make more accurate and faster decisions when diagnosing complex cases. For example, thanks to the speed and accuracy of data processing, artificial intelligence has managed to detect complex diseases, including cancer, cardiovascular diseases at an early stage. In addition, the use of artificial intelligence in surgery, such as robotic surgery, allows for more precise operations. This will improve the quality of healthcare and the quality of life of patients. The development of drugs based on artificial intelligence and personalized treatment approaches are also major advances in the field of medicine.

Robots used in surgical operations make doctors' work easier and improve accuracy. Services such as medical consultations and developing treatment plans for patients are also being developed with the help of artificial intelligence. Artificial intelligence is also making big changes in the field of transportation

and logistics. Autonomous vehicles such as driverless cars can make cargo transportation more efficient and safer. This technology helps reduce the number of road accidents and optimize traffic flow.

In logistics, information technology helps automate and optimize the delivery process. With robots in warehouses, route planning systems, and data processing, artificial intelligence helps deliver products faster and more efficiently.

Ethics and risks of artificial intelligence are important topics that accompany the development of this technology. Monitoring and properly regulating its development is a key task to ensure the safety and benefit of artificial intelligence for humanity.

Since artificial intelligence systems process large amounts of data, it is important to ensure the security of personal data. In the future, special laws and regulations will be needed to protect personal data, such as the GDPR. Ethical standards must be implemented in the process of collecting, storing, and processing data in order to protect the rights of individuals.

It is important to protect human rights in the development and use of artificial intelligence. Artificial intelligence systems must not lead to discrimination, injustice, or violence against people. Ethical standards must be aimed at defining the social responsibility of artificial intelligence, as well as addressing inequality in society.

Educational programs are needed to understand the ethical aspects of artificial intelligence and its responsible use. They aim to inform the public, businesses and government agencies about the impact and potential of artificial intelligence technologies.

It is important to improve people's attitudes towards artificial intelligence by introducing and teaching ethical standards.

It is necessary to define responsibility and legal mechanisms for problems arising from the use of artificial intelligence. It is important to establish who is responsible if artificial intelligence solutions violate or harm human rights. It is necessary to strengthen the legislative framework for determining the responsibility of developers and users of artificial intelligence systems.

Conclusion: Artificial intelligence has had a significant impact on various areas of human life and its development will continue. With the help of artificial intelligence, production processes are optimized, diagnostic and treatment methods in medicine are improved, the education system is focused on individual training, and the field of transport and logistics is developing. However, it is important to consider the ethical and legal aspects of artificial intelligence, since irresponsible use of this technology can lead to dangerous situations. With the development of artificial intelligence, human life is changing dramatically. IT technologies allow increasing efficiency in the labor market, healthcare, education, transport and logistics. However, this progress also raises ethical issues and risks. The impact of artificial intelligence on society is directly related to how it is used.

References

1. Бриньолфссон, Э. и Макафи, А. (2014). Второй век машин.
2. Всемирный экономический форум. (2020). Доклад о будущем рабочих мест 2020.
3. Гаипов Дилшод Жумабекович. "Роль эвристического обучения в развитии креативного мышления учеников начального класса на уроках математики" *European science*, no. 3 (52), 2020, pp. 53-54.
4. Исмаилова Р.Б., Туkenova К.Т., Тореахмет А.К. [и др.] МЕСТО ИСКУССТВЕННОГО ИНТЕЛЛЕКТА В СОВРЕМЕННОЙ СИСТЕМЕ ОБРАЗОВАНИЯ // *Современная психология*

и педагогика: проблемы и решения: сб. ст. по матер. LXXXVIII междунар. науч.-практ. конф. № 11(85). – Новосибирск: СибАК, 2024. – С. 82-86.

5. NAURUZBAEVA, A. Psychological Bases of Studying the Karakalpak Language by Students in Primary Classes. *JournalNX*, 7(02), 10-13.
6. Nauruzbaeva, A. S., & Embergenova, A. A. Linguodidactic Fundamentals of Teaching Students How to Make Sentences in Karakalpak Language Lessons. *International Journal on Integrated Education*, 3(8), 186-190.
7. Kengesbayevich, R. M. (2024). CORRECTIVE-PEDAGOGICAL ACTIVITIES IN INCLUSIVE EDUCATION. *AMERICAN JOURNAL OF MULTIDISCIPLINARY BULLETIN*, 2(3), 161-165.
8. Kengesbayevich, R. M. (2024). READINESS OF SOCIAL PEDAGOGUES TO WORK WITH CHILDREN WITH DISABILITIES. *AMERICAN JOURNAL OF EDUCATION AND LEARNING*, 2(3), 318-323.
9. Kengesbayevich, R. M. (2025, January). INDIVIDUAL PERSONALITY TRAITS OF JUNIOR PUPILS IN SCHOOLS OF EDUCATION. In *International Conference on Adaptive Learning Technologies* (Vol. 13, pp. 24-25).