

THE ROLE OF ARTIFICIAL INTELLIGENCE IN ECONOMIC GROWTH.*Narzullayeva Iroda Jaloliddin kizi**TAFU, student of finance**1 Gavhar Street, Chilonzor District, Tashkent**irodanarzullayeva429@gmail.com*

ABSTRACT. This article analyzes the role of artificial intelligence (AI) in economic growth and its impact on various sectors of the economy. The article examines the impact of AI technologies in aspects such as increasing production efficiency, optimizing business processes, creating new jobs, and enhancing global competitiveness. It also examines the risks associated with the introduction of AI technologies into the economy, such as labor issues, information security, and human rights. The article reveals the importance of AI in creating innovative changes and its potential for economic growth. The results of the study show that the proper management and effective use of AI are an important factor in ensuring economic stability and competitiveness.

Keywords: economic growth, artificial intelligence, technological innovation, production efficiency, business optimization, competitiveness, jobs, economic stability, digital transformation.

Abstarkt: Ushbu maqola iqtisodiy o'sishda sun'iy intellektning (SI) roli va uning iqtisodiyotning turli sohalariga ta'sirini tahlil qiladi. Maqolada sun'iy intellekt texnologiyalarining ishlab chiqarish samaradorligini oshirish, biznes jarayonlarini optimallashtirish, yangi ish o'rinlarini yaratish va global raqobatbardoshlikni kuchaytirish kabi aspektlarida qanday ta'sir ko'rsatishi ko'rib chiqiladi. Shuningdek, SI texnologiyalarining iqtisodiyotga kiritilishi bilan bog'liq xavf-xatarlar, masalan, ishchi kuchi bilan bog'liq muammolar, ma'lumot xavfsizligi va inson huquqlari masalalari ham o'rganiladi. Maqola sun'iy intellektning innovatsion o'zgarishlar yaratishda qanday ahamiyat kasb etishini va uning iqtisodiy o'sishdagi potentsialini ochib beradi. Tadqiqot natijalari, sun'iy intellektning to'g'ri boshqarilishi va undan samarali foydalanish, iqtisodiy barqarorlik va raqobatbardoshlikni ta'minlashda muhim omil ekanligini ko'rsatadi.

Kalit so'zlar: iqtisodiy o'sish, sun'iy intellekt, texnologik innovatsiyalar, ishlab chiqarish samaradorligi, biznes optimallashtirish, raqobatbardoshlik, ish o'rinlari, iqtisodiy barqarorlik, raqamli transformatsiya.

АБСТРАКТНЫЙ. В статье анализируется роль искусственного интеллекта (ИИ) в экономическом росте и его влияние на различные сектора экономики. В статье рассматривается влияние технологий искусственного интеллекта на такие аспекты, как повышение эффективности производства, оптимизация бизнес-процессов, создание новых рабочих мест и укрепление глобальной конкурентоспособности. В нем также рассматриваются риски, связанные с внедрением технологий СИ в экономику, такие как вопросы рабочей силы, информационной безопасности и прав человека. В статье раскрывается важность искусственного интеллекта в создании инновационных изменений и его потенциал для экономического роста. Результаты исследования показывают, что правильное управление и

эффективное использование искусственного интеллекта является важным фактором обеспечения экономической стабильности и конкурентоспособности.

Ключевые слова: экономический рост, искусственный интеллект, технологические инновации, эффективность производства, оптимизация бизнеса, конкурентоспособность, рабочие места, экономическая стабильность, цифровая трансформация. INTRODUCTION

With the beginning of the 21st century, the world economy has undergone major changes. Technological development and digital transformation processes are renewing economic systems and creating new opportunities. One of the most important and rapidly developing areas of these is artificial intelligence (AI). Today, AI technologies are forcing changes not only in the fields of science and engineering, but also in manufacturing, the service sector, finance, medicine, education and many other areas. There is a lot of research on the impact of AI on economic growth, but its full potential and risks need to be studied in depth.[1]

The integration of AI technologies into the economy has an impact on economic growth, such as increasing production efficiency, creating new jobs, and automating production processes. At the same time, social and economic problems associated with the widespread use of these technologies are also emerging. The article discusses the role of artificial intelligence in economic growth, its impact and future. It also examines what areas need to be worked on to increase the potential of AI technologies in the economy.

The role of artificial intelligence in economic growth is causing changes and innovations in every field. Artificial intelligence (AI) technologies are mainly used to analyze data, automate decision-making, optimize production processes and create new products or services. The following are some of the important roles of AI technologies in economic growth:

Increasing production efficiency: AI technologies create opportunities for automating and optimizing production processes. For example, with the help of robotics, IoT (Internet of Things) devices and machine learning, production processes are accelerated, errors are reduced and resources are used more efficiently. This, in turn, reduces production costs and increases production volumes.[2]

Job creation: Artificial intelligence is developing new industries and technologies. This will lead to the creation of new jobs and the emergence of new professions. For example, new specialists will be needed in areas such as data analysis, software development, and the management and optimization of information systems.

Increased competitiveness: Information technology allows for the efficient management of business processes. This allows companies to become more competitive, as they can quickly adapt to market demands, better understand customer needs, and provide the highest level of service. Competitiveness encourages companies to innovate, thereby creating the basis for economic growth.[3] **Innovative economic growth:** Artificial intelligence technologies enable the development of new products and services. For example, self-driving cars in the automotive industry or accurate diagnostic systems in healthcare have been created using artificial intelligence. Such innovations accelerate economic growth and create new industries.

Data analysis and decision-making: Artificial intelligence provides high efficiency in analyzing large volumes of data. This, in turn, allows companies and governments to make accurate and informed decisions. For example, AI technologies play an important role in economic analysis, market forecasting, and identifying customer needs.

Social and economic challenges: The role of artificial intelligence in economic growth also brings some risks. AI technologies can lead to job losses in some sectors, as automation can replace human labor. Data security and human rights issues also remain pressing issues.[4]

CONCLUSION

As shown in the above analyses of the impact of artificial intelligence (AI) technologies on economic growth, it plays an important role in the development of various sectors of the economy today. With the help of AI, production efficiency increases, new products and services are created, and business processes are managed effectively. This, in turn, leads to increased economic growth and competitiveness. New jobs, innovative industries, and technological advances are creating new opportunities for the economy.

Thus, the role of AI in economic growth is strong, but constant monitoring and the right policies are needed to fully optimize its impact and reduce risks. In the future, economic growth can be sustainable and competitive through innovative approaches and partnerships to fully exploit the potential of AI technologies.

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