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THE ROLE AND IMPORTANCE OF ARTIFICIAL INTELLIGENCE IN EVERYDAY LIFE: DEVELOPMENT AND PROSPECTS

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Israyiljanova Gulbaxor Saminjanovna
FGTU Academic Lyceum No. 2
Informatics and Information Technology
teacher of science

Abstract . This article provides an in-depth analysis of the role, development, and prospects of Artificial Intelligence (AI) technologies in modern daily life. The study explores a wide range of AI applications in household appliances, healthcare, education, finance, trade, transportation, and personal life. The advantages, including increased efficiency and personalization, as well as potential risks, such as privacy concerns, job displacement, and ethical issues, are discussed in detail. International and local case studies, statistical data, and recent research findings are used to support the discussion. The paper concludes with recommendations for the responsible and safe implementation of AI technologies in society.

Keywords: Artificial Intelligence, AI applications, daily life, ethics, automation, privacy, technological impact

INTRODUCTION

In recent decades, artificial intelligence (SI) has become an integral part of human life. From automation to improving medical diagnoses, SI is actively used in various fields. While these technological advances brought many advantages, they brought with them new calls.

The development of AI technologies began in the 1950s, with only algorithmic computations at the level in scientific laboratories in the early years. Since the 2000s, machine learning and deep learning technologies have developed rapidly as internet," big data", and graphics processor (GPU) capabilities have increased.

AI technologies have also begun to be actively implemented in Uzbekistan in recent years. In the banking sector, customer service chatbots, automatic testing systems on distance learning platforms in the education sector, AI programs analyzing medical images are widely used in the health sector.

METHODOLOGY

The study harmonized qualitative and quantitative approaches. The data was taken from:

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• International scientific articles and books (Russell & Norvig, Kaplan
• Domestic and foreign analytical reports (WEF, PwC)
• Practical observations and analysis of online services (Google Assistant, Tesla Autopilot, Coursera, Yandex Alice)
* Interviews with industry expertsMethodology

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RESULTS

AI technologies are also used a lot at smartphones and personal assistants. The main task of voice assistants is to identify human speech and execute user commands. Behind the simple outline lie Natural Language Processing (NLP) and machine learning algorithms. They are able to understand the meaning, context of words and reflect the Pronunciation, accent and tone of speech of different individuals.

Such systems continuously analyze the user's statements, increasing the quality of responses. Artificial intelligence improves itself by learning from real conversations. For this reason, voice assistants have become a convenient and multifunctional tool in everyday life.

Modern AI models, such as ChatGPT 4o and Claude 3.5 Sonnet, not only execute commands, but also conduct meaningful communication, understand complex questions and can even display elements of empathy in answers.Such systems continuously analyze the user's statements, increasing the quality of responses. Artificial intelligence improves itself by learning from real conversations. For this reason, voice assistants have become a convenient and multifunctional tool in everyday life.

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There are also several options for AI technologies.

1. Creating Marketing materials, posts and visual content
2. Reading news, work reports or meeting notes aloud
3. To say the weather forecast
4. Putting notes on the dedlains
5. Inclusion of calendar events
6. Call and send messages

"Smart home" technologies. In this, systems such as energy-efficient lighting systems, face recognition in security cameras, automatic climate control adapt to

user habits using AI. For example, smart lights turn on automatically in the evening and turn off at dawn, which allows you to save comfort and energy.

" Medicine " IBM Watson and other AI systems analyze large volumes of medical data and make accurate diagnoses. With AI, rare diseases are also quickly diagnosed. For example, the SkinVision app helps doctors in diagnosing skin cancer. "Transport" - Tesla Autopilot, Google Maps, and AI-based security systems perform driverless movement and real-time road analysis. AI is also used in airport security systems to help identify suspicious behavior.

Platforms such as" education " Coursera, Khan Academy adapt to the user's reading speed and create individual educational paths. With AI, the strengths and weaknesses of the students are determined.

DISCUSSION

Artificial intelligence is of great benefit to society, but there are also associated risks. Issues such as job shrinkage, information privacy, and algorithmic bias are globally relevant.Privacy is one of the biggest calls. AI systems collect and process user data. If this process is not transparent, human rights can be harmed.iscussion

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CONCLUSION

Artificial intelligence is deepening into our daily lives. This process improves the quality of life, but with it the responsibility also increases. Finding a balance between innovation and security, compliance with international standards and the introduction of ethical principles are essential for the future success of SI technologies.

LITERATURE USED:

1. Nowak, A. (2024). Artificial Intelligence in science and everyday life, its application and development prospects. Management Papers, Silesian University of Technology. Retrieved from http://managementpapers.polsl.pl

2. Sapczyski, T. (2024). Artificial Intelligence in science and everyday life, its application and development prospects. ASEJ - Scientific Journal of Bielsko-Biala School of Finance and Law. Retrieved from http://asej.eu

3. Komilov, S., & Raxmatov, Sh. (2021). Sun'iy intellekt asoslari: Mashinaviy o'qitish. Toshkent: Fan va Texnologiya.

4. Shavkatov, A. (2021). Sun'iy intellekt texnologiyalarining rivojlanishi. Toshkent: O'zbekiston Yozuvchilar Uyushmasi.

5. Rasimov, M. (2020). Raqamli iqtisodiyot va sun'iy intellekt. Toshkent: Tashkent University Press.