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## **EFFECTIVE USE OF ARTIFICIAL INTELLIGENCE**

### **OPPORTUNITIES IN THE PUBLIC ADMINISTRATION SYSTEM**

**Abstract:** This article discusses the development of artificial intelligence and the attention paid to it by Uzbekistan, the reforms being implemented in this area, the content and essence of laws and resolutions on the topic, and the problems and solutions for the further development of the field of artificial intelligence in Uzbekistan.

**Keywords:** Artificial Intelligence, Digital Technologies, MyID, Digital Uzbekistan-2030, Unified Social Protection Register, Unified Identification System, Electronic Government System Database.

#### **Introduction**

In today's conditions of rapid development of science and information and communication technologies, in the developed countries of the world, it is customary to widely use the possibilities of modern information technologies and artificial intelligence in the fields of state and community management, economy, industry, social protection, education, medicine, employment, agriculture, defense, security, tourism and other fields.

#### **Materials and methods**

The term " Artificial Intelligence" dates back to 1956 come appearance it happened This year in the summer The USA Dartmouth at the university artificial thinking issues according to conference as It was Claude Shannon ( Bell Laboratories ) Nathaniel Rochester (IBM), Herbert Simon (Carnegie University , Trenchard Moore ( Princeton) University ), John McCarthy ( Dartmouth University ), Marvin Minsky (Harvard University ) . scientists participation has done .

The American computer scientist John McCarthy (1927–2011), who spoke at this conference, went down in history as the author of the term "Artificial Intelligence".

Artificial intelligence - a discovery in the 1980s so began to be recognized . Scientists this on the way textbooks work exit They started .

Also, in 1997, the famous chess program “Deep Blue” was created, which defeated the World Chess Champion Garry Kasparov. In those years, a 6th generation computer project based on neural networks was being developed in Japan. After that, attention to artificial intelligence increased. From large companies to military institutions, this field began to be financed. As a result new increasing the number of technologies , competition increased , artificial intelligence tools improved went .

So, what is Uzbekistan doing in this regard? Uzbekistan has also set a priority to become one of the leading countries with innovative development by 2030 through the development of informatization and the digital economy.

## **Results**

The following facts can be cited about the current state of development of artificial intelligence technologies in our country, including the adoption of the Resolution of the President of the Republic of Uzbekistan No. PP-4996 dated February 17, 2021 “On measures to create conditions for the accelerated introduction of artificial intelligence technologies”. In accordance with this resolution, starting from the 2021-2022 academic year, courses and subjects on the practical application of artificial intelligence technologies in economic sectors and the system of public administration have been introduced in 15 higher educational institutions. Starting from the 2023-2024 academic year, 572 students (510 bachelors, 62 masters) were admitted to 12 higher educational institutions to train personnel in the direction of “Artificial Intelligence”; starting from the 2024-2025 academic year, courses and subjects on artificial intelligence technologies have been introduced in 14 higher educational institutions. The El-Yurt Umidi Foundation sent young people who expressed a desire to study in the field of "Artificial Intelligence" to leading foreign

higher education institutions. A research institute for the development of digital technologies and artificial intelligence with specialized laboratories was established under the Ministry of Digital Technologies. Within the framework of the activities of the Open Data Portal of the Republic of Uzbekistan, a digital data platform (data.egov.uz) was launched, which provides the opportunity to obtain data and other data sets of state bodies for using software based on artificial intelligence. Within the framework of the decision, pilot projects were implemented on the introduction of artificial intelligence in agriculture, banking, finance, transport, healthcare, pharmaceuticals, energy, taxation and other priority sectors and areas. Also, a research institute for artificial intelligence technologies was established under the Ministry of Digital Technologies. The sole integrator for the development and support of state information systems under the Ministry of Digital Technologies is UZINFOCOM. With the help of this organization, the “Mukhlisa” voice assistant system and “MyID” were developed.

### **Discussion**

of the President of the Republic of Uzbekistan No. PP-358 dated October 14, 2024 “On Approval of the Strategy for the Development of Artificial Intelligence Technologies until 2030” was approved. According to the Resolution, it is necessary to create favorable conditions for the introduction of artificial intelligence technologies in the social sphere and economic sectors, to achieve our country's inclusion among the world's leading countries in the use of artificial intelligence technologies, as well as to implement the “Digital Uzbekistan-2030” it was determined to ensure the implementation of the goals and tasks set in the strategy .

In particular, to increase the volume of software products and services created on the basis of artificial intelligence to 1.5 billion US dollars;

Increase the share of services provided on the basis of artificial intelligence to 10% in the unified interactive public services portal;

increasing the number of scientific laboratories operating in the field of artificial intelligence to 10 and launching high-capacity computing servers;

To achieve the Republic of Uzbekistan's inclusion in the top 50 countries in the Government AI Readiness Index;

formation of the regulatory framework aimed at the development of artificial intelligence technologies, improvement of standards in the field and strengthening of international cooperation relations;

increase the knowledge and skills of the population on the use of artificial intelligence technologies, develop the potential of personnel.

“Single Register of Social Protection”, provided for in the Resolution of the President of the Republic of Uzbekistan “On additional measures to automate the procedures for providing state social services and assistance to the population”, should also effectively use the capabilities of artificial intelligence, along with modern technologies. As is known, now the procedures for considering applications for the assignment of social benefits and their assignment will be carried out through the “single register”. As an integral part of the “e-government” system, the “Single Register of Social Protection” can serve as an interdepartmental integration platform and manage the database provided by the relevant departments using artificial intelligence technology.

It is possible to form an artificial intelligence database from existing data sources in Uzbekistan and use them effectively. Including:

Unified identification system - ([id.gov.uz](http://id.gov.uz));

Open Data Portal of the Republic of Uzbekistan – ([data.gov.uz](http://data.gov.uz));

Electronic Government System Database – ([my.gov.uz](http://my.gov.uz));

Database of State Services Agency – ([davkhizmat.uz](http://davkhizmat.uz)); including the database of various ministries and agencies.

It is known that the privacy of personal data, their storage and management are important when introducing artificial intelligence into social and other fields. Because the ethical aspects of the use of artificial intelligence are in the focus of attention, especially the US, Great Britain, EU member states and leading international organizations, and the issue of human rights and personal data, as well as the danger

of using artificial intelligence for political and destructive purposes, are urgent. In some countries, in particular, China and Russia, there are accusations that artificial intelligence and ICT are being used to limit the personal rights and freedoms of citizens and for political purposes. Therefore, it is appropriate to pay special attention to these issues when creating the legal basis for the use of artificial intelligence.

### **Conclusions**

In conclusion, it can be said that if several problems that currently hinder the development of artificial intelligence in Uzbekistan were eliminated, work in this area would be significantly improved. For example, in the development of artificial intelligence schools, it is necessary to organize laboratories at universities that carry out practical work, if students do not put the knowledge they have learned into practice, there will be no development in the field. For this, there must be powerful and new computers, HPC (High performance computing), or, more simply, supercomputers, good furniture and, at the same time, electricity, and they must be allocated to the scientific community for free or very cheap use. We believe that universities and institutes themselves should have such artificial intelligence laboratories.

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