



## THE IMPORTANCE OF ARTIFICIAL INTELLIGENCE FOR INCREASING INVESTMENT EFFICIENCY IN UZBEKISTAN

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### Abstract

The article discusses the importance of using artificial intelligence (AI) to improve the efficiency of investment in Uzbekistan. The introduction emphasizes that the implementation of AI is becoming a key factor in increasing the competitiveness of enterprises and sustainable economic growth of the country. The relevance of the topic is due to active economic reforms aimed at attracting foreign investment and developing the private sector. The author analyzes the use of AI in various aspects of investment management, including automated transaction execution, market monitoring, financial report analysis, regulatory compliance and risk management. Automation of routine tasks using AI can reduce time and labor resources, reduce the likelihood of errors and improve overall productivity.

**Keywords:** Attracting foreign investment, using AI, efficiency and competitiveness, investment management,

### Introduction

Artificial intelligence (AI) is one of the most revolutionary technologies of our time, transforming various aspects of the economy and business. In the context of global digitalization and the desire for sustainable development, the use of AI is becoming critical to improving the efficiency and competitiveness of enterprises. In Uzbekistan, against the backdrop of active economic reforms and attracting foreign investment, the introduction of AI can significantly improve the investment management process and optimize their use. In this article, we will consider the importance of AI for improving the efficiency of investment use in Uzbekistan.

### Relevance of the topic

The economy of Uzbekistan is at the stage of active transformations aimed at liberalization, modernization and integration into the global economy. The government is taking measures to attract foreign investment, develop the private sector and create a favorable business climate. In these conditions, the efficiency of investment use is becoming a key factor in ensuring sustainable economic growth. The





introduction of AI allows you to automate and optimize investment management processes, reducing risks and increasing profitability.

## **Application of Artificial Intelligence in Investment Management.**

### **1. Analysis and Forecasting of Investment Opportunities**

Artificial intelligence is capable of analyzing large volumes of data and identifying promising investment opportunities. The use of machine learning and data analytics allows investors to make accurate forecasts and assess potential risks. This is especially important in uncertain and highly volatile markets.

### **2. Optimization of Investment Portfolio**

AI can be used to develop optimal investment strategies and manage an asset portfolio. Algorithms can take into account various factors such as profitability, risk, liquidity, and time horizons to suggest the best investment allocation options. This helps minimize risks and maximize returns.

#### **Automation of Routine Tasks in Investment Management.**

Automation of routine tasks using artificial intelligence (AI) plays a key role in improving the efficiency of investment management. This involves the use of algorithms and machine learning to perform various tasks that previously required significant time and labor resources.

**1-Table Main areas of automation of routine tasks in investment management using AI**

<b>Nº</b>	<b>Activities</b>	<b>Note</b>
1.	<b>Automated execution of transactions</b>	Artificial Intelligence (AI) can execute trades automatically based on pre-defined criteria and algorithms. This includes trading strategies such as arbitrage, algorithmic trading, and high-frequency trading (HFT) trade execution. Automated trades allow you to: <ul style="list-style-type: none"><li>o React to market changes faster than a human can.</li><li>o Execute trades without emotional impact, based only on data and algorithms.</li><li>o Optimize trade execution time and cost.</li></ul>
2.	<b>Market monitoring</b>	AI can continuously monitor financial markets in real time, analyzing huge amounts of data and identifying potential opportunities or threats. This includes: <ul style="list-style-type: none"><li>o Processing news and financial reports to predict market changes.</li><li>o Analyzing social media and other information sources to identify trends and sentiment.</li><li>o Creating alerts and recommendations for investors based on data analysis.</li></ul>





3.	<b>Financial Statement Analysis</b>	Analyzing financial statements is a labor-intensive process that requires a significant amount of time and effort. AI can automate this process by: <ul style="list-style-type: none"><li>o Recognizing and extracting key data from financial statements.</li><li>o Analyzing a company's financial strength and performance metrics.</li><li>o Creating reports and visualizing data to make informed investment decisions.</li></ul>
4.	<b>Compliance</b>	Compliance is an important aspect of investment management. AI can help automate compliance processes, including: <ul style="list-style-type: none"><li>o Monitoring transactions to identify suspicious transactions and prevent fraud.</li><li>o Automatically generating reports and documentation for regulators.</li><li>o Ensuring compliance with internal policies and external regulations.</li></ul>
5.	<b>Risk Management</b>	AI can analyze historical data and current market conditions to identify potential risks. Risk management automation includes: <ul style="list-style-type: none"><li>o Assessing the likelihood of various risk events and their impact on the investment portfolio.</li><li>o Creating hedging strategies to protect against adverse market movements.</li><li>o Continuously updating and adapting risk management models.</li></ul>
6.	<b>Customer Service and Support</b>	Automating customer service tasks using AI allows you to: <ul style="list-style-type: none"><li>o Handle customer requests in real time using chatbots and virtual assistants.</li><li>o Provide personalized recommendations and advice based on customer data analysis.</li><li>o Reduce the workload on the support service and improve the customer service experience.</li></ul>

*(author's development)*

### Examples of AI Use Cases in Automating Routine Tasks

- Robo-advisors: Platforms like Betterment and Wealthfront use AI to automate investment management, providing clients with personalized investment recommendations and trade execution.
- Trading algorithms: Algorithmic trading firms like Renaissance Technologies use complex mathematical models and AI to execute trades in financial markets with high speed and accuracy.
- Compliance systems: Companies like ComplyAdvantage offer AI-powered solutions for automated transaction monitoring and regulatory compliance.



#### **4. Risk assessment and management**

Artificial intelligence allows for the effective assessment and management of investment risks. Algorithms can analyze historical data, identify patterns, and predict potential threats. This allows investors to make informed decisions and develop hedging strategies.

#### **5. Increased transparency and trust**

The implementation of AI helps to increase transparency in investment processes and improve customer interactions. The use of blockchain technologies allows creating reliable and transparent accounting and reporting systems, which increases investor confidence and attracts new participants to the market.

### **Examples of using AI in the investment sector in Uzbekistan.**

#### **1. Development of fintech companies**

Fintech companies in Uzbekistan are actively implementing AI to provide investment services. For example, platforms for automatic investment management and robotic consultants help investors effectively manage their assets and receive high returns.

#### **2. Digitalization of the banking system**

Banks in Uzbekistan use AI to analyze the creditworthiness of borrowers, manage risks and optimize investment portfolios. This improves the quality of customer service and increases the profitability of investment products.

#### **3. Government initiatives**

The Government of Uzbekistan actively supports the implementation of artificial intelligence (AI) in various sectors of the economy, including the investment sector. Creating favorable conditions for the development of AI, supporting startups and innovative projects helps attract investment and develop the digital economy.

In 2024, the President of Uzbekistan Shavkat Mirziyoyev approved the AI development strategy until 2030. This strategy is aimed at increasing the volume of AI software and services to \$1.5 billion by 2030. It is planned to create 10 scientific laboratories for AI research and launch high-performance computing servers. Uzbekistan also aims to enter the top 50 countries in the government readiness index for AI [4. 3p].

To support AI projects, a "big data" repository is being created by September 2025, and computing power for data processing will be introduced by May 2026. The



Ministry of Digital Development plays a key role in promoting AI, and the AI and Digital Economy Development Center will coordinate AI systems and programs.

AI will be applied in various sectors, such as banking, healthcare, agriculture, and energy. In banking, AI will help prevent fraud and assess reliability, and in healthcare, in diagnosis and treatment selection. In agriculture, AI will be used to predict crop yields and monitor production, and in energy, to optimize resource management and develop renewable energy sources.

**Summing up the above**, we can say that artificial intelligence has great potential for increasing the efficiency of investment in Uzbekistan. The introduction of AI allows for the automation and optimization of investment management processes, reducing risks and increasing profitability. In the context of active economic reforms and integration into the global economy, the use of AI is becoming a key factor in ensuring sustainable economic growth and attracting investment. To achieve these goals, it is necessary to continue developing government initiatives, supporting fintech companies, and introducing advanced technologies in all areas of the economy.

Automation of routine tasks using AI significantly improves the efficiency of investment management. This allows investors and financial institutions to reduce the time and resources spent on labor-intensive processes, reduce the likelihood of errors and improve overall productivity. The introduction of AI in investment management opens up new opportunities for optimization and increased competitiveness in financial markets, which is especially important for the dynamically developing economy of Uzbekistan.

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