

МЕДИЦИНА, ПЕДАГОГИКА И ТЕХНОЛОГИЯ: ТЕОРИЯ И ПРАКТИКА

Researchbib Impact factor: 11.79/2023

SJIF 2024 = 5.444

Том 2, Выпуск 6, 30 Июнь

EFFICIENCY OF USE OF ELECTRONIC TECHNOLOGIES IOT, AI, BLOCKCHAIN TECHNOLOGIES IN EXPORT DEVELOPMENT

Ismatullayeva Shoira Nurlibekovna

The student, Tashkent state university of economics Faculty of Marketing and
Logistics

ABSTRACT:

The efficiency of using electronic technologies such as IoT, AI, and blockchain in export development can have a significant impact on various aspects of the export process. The efficiency of using electronic technologies such as IoT (Internet of Things), AI (Artificial Intelligence), and blockchain technologies in export development can greatly enhance the overall process and outcomes.

Key words: Internet of Things (IoT), Artificial Intelligence (AI), Blockchain, Export development, Supply chain management, Inventory management, Predictive maintenance, Market analysis, Customer relationship management (CRM), Automation, Smart contracts, Transparency, Traceability, Security, Digital transformation, Global market, Efficiency, Real-time data, Data-driven insights, International trade

ЭФФЕКТИВНОСТЬ ИСПОЛЬЗОВАНИЯ ЭЛЕКТРОННЫХ ТЕХНОЛОГИЙ IoT, AI, BLOCKCHAIN ТЕХНОЛОГИЙ В РАЗВИТИИ ЭКСПОРТА

АННОТАЦИЯ:

Эффективность использования электронных технологий, таких как IoT, AI и блокчейн, в развитии экспорта может оказать существенное влияние на различные аспекты процесса экспорта. Эффективность использования электронных технологий, таких как IoT (Интернет вещей), AI (Искусственный интеллект) и блокчейн-технологий в развитии экспорта может значительно улучшить общий процесс и результаты.

Ключевые слова: Интернет вещей (IoT), Искусственный интеллект (AI), Блокчейн, Развитие экспорта, Управление цепочками поставок, Управление запасами, Прогностическое обслуживание, Анализ рынка, Управление взаимоотношениями с клиентами (CRM), Автоматизация, Смарт-

МЕДИЦИНА, ПЕДАГОГИКА И ТЕХНОЛОГИЯ: ТЕОРИЯ И ПРАКТИКА

Researchbib Impact factor: 11.79/2023

SJIF 2024 = 5.444

Том 2, Выпуск 6, 30 Июнь

контракты, Прозрачность, Прослеживаемость, Безопасность, Цифровая трансформация, Глобальный рынок, Эффективность, Данные в реальном времени, Инсайты на основе данных, Международная торговля

IoT can help track and monitor shipments in real-time, providing valuable data on the location, condition, and status of goods being exported. This can help streamline logistics operations and reduce delays and errors.

AI can analyze vast amounts of data to provide insights and predictions on market trends, customer preferences, and pricing strategies. This can help exporters make more informed decisions and optimize their export strategies.

Blockchain technology can improve transparency and security in international trade transactions by creating a secure and immutable record of all transactions. This can help reduce fraud, improve trust between trading partners, and streamline the payment process. The use of these electronic technologies in export development can lead to increased efficiency, reduced costs, improved decision-making, and enhanced competitiveness in the global market.

Improved Supply Chain Management: IoT technology can provide real-time monitoring of goods in transit, helping to optimize supply chain logistics and reduce delays. This can lead to faster delivery times and lower costs.

Enhanced Decision-Making: AI technologies can analyze large amounts of data to provide insights into market trends, customer preferences, and competitor strategies. This can help exporters make more informed decisions and develop effective export strategies.

Increased Transparency and Security: Blockchain technology can enhance the security and transparency of export transactions by creating an immutable record of all transactions. This can help prevent fraud and ensure that all parties involved in the export process are held accountable.

Cost Savings: By automating various aspects of the export process, electronic technologies can help reduce manual labor costs and streamline operations. This can lead to cost savings for exporters and make them more competitive in the global market.

The efficient use of electronic technologies in export development can help exporters increase their competitiveness, improve operational efficiency, and enhance customer satisfaction.

МЕДИЦИНА, ПЕДАГОГИКА И ТЕХНОЛОГИЯ: ТЕОРИЯ И ПРАКТИКА

Researchbib Impact factor: 11.79/2023

SJIF 2024 = 5.444

Том 2, Выпуск 6, 30 Июнь

In the contemporary global economy, the efficiency and competitiveness of export development are paramount for businesses aiming to expand their market reach. Electronic technologies such as the Internet of Things (IoT), Artificial Intelligence (AI), and Blockchain are at the forefront of this transformation. These technologies not only streamline operations but also enhance decision-making processes, ensure security, and foster transparency, thereby revolutionizing international trade.

The Role of IoT in Export Development

IoT connects a multitude of devices and systems, facilitating real-time data collection and analysis. This connectivity provides significant advantages for export development:

Inventory Management: IoT sensors provide precise and real-time data on inventory levels, helping exporters maintain optimal stock levels. This capability prevents overstocking and stockouts, ensuring that supply meets demand efficiently.

Predictive Maintenance: IoT technology can predict potential equipment failures before they occur, ensuring uninterrupted production and timely fulfillment of export orders. This predictive capability reduces downtime and maintenance costs.

AI in Export Development

AI technologies enhance decision-making and operational efficiency through advanced data analysis and automation:

Market Analysis and Forecasting: AI algorithms can process vast amounts of market data to predict trends, customer preferences, and demand fluctuations. This predictive analysis allows exporters to make informed decisions regarding product offerings and market entry strategies.

Customer Relationship Management (CRM): AI-driven CRM systems personalize communication, improve customer service, and predict customer behavior. This leads to enhanced customer satisfaction and loyalty, which are crucial for retaining international clients.

Automation of Routine Tasks: AI can automate repetitive tasks such as order processing, invoicing, and responding to customer inquiries. This automation reduces human error and frees up resources for more strategic activities, improving overall efficiency.

Blockchain in Export Development

МЕДИЦИНА, ПЕДАГОГИКА И ТЕХНОЛОГИЯ: ТЕОРИЯ И ПРАКТИКА

Researchbib Impact factor: 11.79/2023

SJIF 2024 = 5.444

Том 2, Выпуск 6, 30 Июнь

Blockchain technology provides a secure and transparent framework for managing transactions and data:

Transparency and Traceability: Blockchain creates an immutable record of transactions, making it easy to trace the journey of goods from origin to destination. This transparency enhances trust between trading partners and consumers.

Smart Contracts: Blockchain enables the use of smart contracts, which automatically execute and enforce the terms of an agreement when predefined conditions are met. This automation reduces the risk of disputes and ensures timely payments and deliveries.

Security: The decentralized nature of blockchain makes it highly resistant to fraud and cyberattacks. This ensures the integrity of transaction data and protects sensitive information, which is crucial for maintaining the credibility of export operations.

Alibaba's AI-Powered Export Platform: Alibaba uses AI to help small and medium-sized enterprises (SMEs) navigate international markets. The platform offers AI-driven market analysis, product recommendations, and automated matchmaking with potential buyers, enabling SMEs to expand their reach effectively.

Provenance and Food Trust: Companies like Provenance use blockchain to trace the origin of food products, ensuring their authenticity and quality. This transparency boosts consumer confidence and enhances the marketability of exports, particularly in markets with stringent quality standards.

The integration of IoT, AI, and blockchain technologies in export development significantly enhances efficiency, transparency, and security. These technologies streamline operations, provide data-driven insights, and foster trust among international trading partners. As digital transformation continues to accelerate, businesses that leverage these technologies will be better positioned to capitalize on new opportunities and drive sustainable growth in the global market.

REFERENCES:

1. "The Internet of Things in the Global Supply Chain," DHL and Cisco.
2. "Artificial Intelligence in Export Development," McKinsey & Company.
3. "Blockchain in International Trade," World Economic Forum