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ARTIFICIAL INTELLIGENCE AS A CRITICAL TOOL FOR ENTREPRENEURSHIP RESILIENCE AND STRATEGIC ADAPTATION IN TURBULENT ECONOMIC CONDITIONS

MYKHAILO RYSCHENKO, PhD student

YEVHENII KYSELHOF, PhD student

VLADYSLAV HAYLO, PhD student

OKSANA ROMANENKO, Senior Teacher

VALENTYNA PRASOL, Associate Professor, Scientific Adviser

OLENA V. DYMCHENKO, Professor, Doctor of Science in Economics,
Scientific Adviser

O. M. Beketov National University of Urban Economy in Kharkiv

Upon reviewing the available literature, several sources discuss the impact of Artificial Intelligence (AI) on business strategy, particularly during periods of economic uncertainty. Source [1] highlights AI's role in enhancing decision-making and automation, both of which are essential in a volatile economic

environment. Source [2] elaborates on AI's ability to provide real-time market analysis and optimize resource allocation, enabling companies to maintain agility. Furthermore, Source [3] directly addresses AI's utility in recessionary conditions, emphasizing its potential to reduce costs and identify new revenue streams.

It is also necessary to consider the specific challenges businesses face during economic downturns, as outlined in Sources [4,5,6]. These challenges include declining sales, restricted access to credit, and cash flow constraints. AI has the potential to mitigate these issues in various ways. For instance, AI-driven predictive analytics can forecast market trends [3], allowing businesses to proactively adapt to changing conditions. Additionally, automation can contribute to cost reduction [1], which is particularly crucial when profit margins are shrinking.

Another key consideration is AI's role in helping small businesses compete with larger corporations, as discussed in [2]. During a recession, small businesses often face heightened financial strain; however, AI tools can level the playing field by providing advanced analytics, customer insights, and process automation. Nonetheless, it is important to address both the opportunities and challenges associated with AI implementation. While AI presents numerous benefits, certain barriers — such as access to technology and expertise — may hinder its adoption, particularly for smaller enterprises [5]. Nevertheless, Sources [3,8] suggest that collaboration with AI specialists and technology providers can help businesses overcome these obstacles.

Artificial intelligence is emerging as a critical tool for business resilience and strategic adaptation in turbulent economic conditions. By enabling data-driven decision-making, cost optimization, and operational agility, AI helps organizations navigate challenges while identifying growth opportunities.

Let's look at the ways how AI transforms business operations during economic uncertainty. First of all is a strategic decision-making enhancements.

Real-time market analysis through AI algorithms enables companies to detect emerging trends 10-20% faster than traditional methods[3]. This capability allows businesses to:

- Adjust pricing strategies dynamically based on demand fluctuations;
- Identify underserved market segments through pattern recognition;
- Predict supply chain disruptions with 85% accuracy in some implementations.

Bias detection systems in modern AI platforms reduce decision-making errors by flagging cognitive biases like confirmation bias during strategic planning sessions[2].

Taking into account cost optimization mechanisms, AI-driven automation reduces operational costs by:

- Streamlining supply chain operations (15-35% reduction in logistics costs) [1,7];
- Automating 40-60%of routine customer service interactions through chatbots[4];

- Optimizing energy consumption in manufacturing (up to 25% savings).

Predictive maintenance systems help manufacturers reduce equipment downtime by 30-50%, crucial for maintaining production efficiency during economic contractions.

AI enables hyper-personalization in terms of customer retention strategies through:

- Dynamic pricing models that increase conversion rates by 12-18%;
- Predictive churn analysis with 80-90% accuracy in identifying at-risk customers;
- Automated loyalty programs that boost repeat purchase rates by 20-25%;

Under conditions of uncertainty and recession, even during downturns, AI facilitates innovation by [3,7]:

- Reducing R&D cycle times through simulation modeling (30-50% faster prototyping);
- Identifying 2-3x more potential product variations through combinatorial analysis;
- Automating 40-60% of regulatory compliance checks for new market entries.

AI tools democratize strategic capabilities for smaller enterprises, taking into account small business empowerment by automated cash flow prediction systems improve financial planning accuracy by 35-45% [6], AI-powered marketing platforms generate 3-5x more leads per dollar spent compared to traditional methods[2], supply chain optimization algorithms reduce inventory costs by 18-22% for SMBs[6].

While implementation challenges persist (45% of small businesses cite integration costs as a barrier), cloud-based AI solutions and pay-per-use models are making advanced capabilities increasingly accessible. Companies combining AI adoption with strategic workforce upskilling show 2.3x higher survival rates during economic contractions compared to non-adopters [6].

By integrating AI into their operations, businesses can not only mitigate risks but also seize opportunities during economic uncertainty. Those that place AI at the core of their business models are better positioned to adapt quickly, reduce costs, and maintain competitive advantage.

The current economic landscape demands AI integration not as optional innovation, but as fundamental infrastructure for business continuity. Organizations leveraging AI's predictive capabilities and operational efficiencies position themselves to not only weather economic storms but emerge stronger through data-driven strategic pivots and optimized resource allocation.

So, to construct a comprehensive analysis, the discussion should be structured around AI's contributions to strategic decision-making, cost optimization, customer retention, and innovation during economic turbulence. This synthesis provides a framework for understanding AI's transformative potential in

business strategy, particularly in navigating economic challenges, while acknowledging the complexities of implementation.

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U.S. TRADE WARS 2025: PROJECTED IMPACT ON VIRTUAL ASSET REGULATION

STANISLAV VODOLAZKYI, PhD student

SVITLANA S. MYKYTIUK, Associate Professor, PhD in Philology, Language Adviser

Yaroslav Mudryi National Law University

In 2025, the administration of President Donald Trump initiated a new phase of trade wars, specifically targeting China, Mexico, and Canada [4]. These economic measures involved increases in tariffs, intensification of sanctions, and restrictions on access to American technologies and financial markets. As a result, global economic tensions escalated, thereby amplifying the risks associated with the use of cryptocurrencies to circumvent sanctions. Consequently, the U.S. government strengthened its financial monitoring mechanisms, expanding its control over digital transactions and introducing stricter requirements for cryptocurrency platforms.

Given the trade restrictions and sanctions imposed in 2025 against China, Mexico, and Canada, it is highly probable that cryptocurrencies will be utilized to bypass these sanctions. Historical instances of sanctions implementation, including the integration of cryptocurrency platforms into sanction control mechanisms, illustrate the role of digital assets in facilitating financial transactions that bypass traditional banking systems. A significant example is the case of Tornado Cash, a decentralized cryptocurrency mixing service sanctioned by the U.S. government in August 2022 for its use in obscuring transactions to evade financial restrictions [2]. This case highlights the potential risks posed by privacy-enhancing technologies in