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**Conference “Innovation and Intelligence: A Multidisciplinary Research on Artificial Intelligence and its Contribution to Commerce and Beyond”**

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**How Artificial Intelligence Helps Companies Grow Sustainably and Improve Financial Performance in Global Markets**

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### **Abstract**

Artificial Intelligence (AI) has emerged as a significant force in transforming global trade. It aids businesses in enhancing profitability, increasing financial returns, improving operational efficiency, and achieving sustainable objectives, which contributes to the optimum utilisation of resources. This research paper offers an in-depth analysis of how artificial intelligence effects contemporary business operations and the decision-making process. Through secondary research, the study emphasizes the role of AI in reducing costs, optimizing supply chains, monitoring environmental factors, enhancing customer knowledge, and providing a competitive edge. It also addresses challenges, ethical considerations, and the future of AI in promoting sustainable global development. Furthermore, it examines how AI-driven systems enhance efficiency, accuracy, and overall organizational performance. The paper concludes by emphasizing ai's crucial role in driving responsible innovation and promoting global commercial advancement.

**Keywords:** Artificial Intelligence (AI), Global Trade, Business Operations, Decision-Making, Supply Chain Optimization, Sustainable Development

### **1. Introduction**

I facilitates sustainable growth and enhances finance world economy is rapidly evolving due to advancements in technology, environmental challenges, and changing consumer expectations. In current years, the global economy has experienced a significant transformation fuelled by swift progress in digital technologies. Among these influences, Artificial Intelligence (AI) emerges as a pivotal force for change. AI is reshaping the way businesses function, make decisions, and innovate the business. Artificial intelligence empowers organizations to enhance resource allocation, streamline operational processes, and minimize unnecessary expenses by automating routine tasks. Concurrently, sustainability has become an essential focus for companies. Governments, investors, and consumers demand that businesses operate responsibly and reduce their environmental impact. The incorporation of AI-driven sustainability tools enables companies to assess their ecological footprint in real time, pinpoint ineffectiveness throughout supply chains, and adopt more environmentally friendly operational strategies that comply with global environmental standards. AI offers robust tools that enable



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firms to achieve both profitability and sustainability. Thus, AI is not merely a technological fad—it has evolved into a vital catalyst for sustainable development and improved financial performance in the world marketplace. This research paper examine how Arial performance for businesses operating in international markets.

## **2. Literature Review**

### **2.1 AI and Business Efficiency**

Studies indicate that artificial intelligence improve organizational efficiency by means of automation, pattern recognition, and data-driven decision-making. Machine learning algorithms empower businesses to examine extensive datasets, uncover concealed patterns, and produce precise predictions that facilitate faster and more informed decision-making. These advancements result in increased efficiency while simultaneously reducing operational costs. Furthermore, sophisticated analytics tools allow companies to optimize stock management, streamline supply chain processes, and respond more adeptly to market changes.

### **2.2 AI and Environmental Sustainability**

Research indicates that artificial intelligence assist to sustainability by enhancing energy efficiency, minimizing waste, refining recycling methods, and assisting organizations in monitoring their carbon emissions. Eco-friendly supply chain systems leverage AI to assess environmental effects throughout production and distribution, enabling companies to reducing waste and function in a more sustainable manner.

### **2.3 AI and Financial Performance**

Research shows that organizations implementing AI see enhancements in revenue, cost efficiency, risk management, and competitive edge. AI-powered forecasting tools enable companies to make precise financial choices that increase profitability. As businesses integrate AI-driven financial systems, they attain enhancing transparency, stronger governance, and enhanced decision-making throughout all tiers of the organization.

## **3. AI as a Catalyst for Sustainable Growth**

### **3.1 Optimizing Resource Use**

AI technologies assist organizations in utilizing their resources more effectively. For instance:

- AI-driven systems enhance water and energy usage.
- Predictive tools can identify and reduce energy waste areas.
- Manufacturing facilities employ AI to reducing material waste during production.
- Intelligent sensors, powered by AI, facilitate the monitoring of equipment performance and help avoid inappropriate energy loss.
- They ensure that resources are allocated efficiently during both peak and off-peak operations. These advancements reduce costs and foster sustainability.

### **3.2 Managing Climate and Environmental Impact**

Artificial Intelligence tools are capable of analysing climate trends, enhance risks, and assisting companies in addressing environmental obstacle. AI facilitates organizations in complying



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with international sustainability standards and environmental guidelines. Consequently, organizations enhance their resilience and are better prepared to fulfil global conservation obligations.

### **3.3 Sustainable Product Development**

Artificial Intelligence help organizations in developing environmentally friendly products by:

- Proposing alternative sustainable materials
- Enhancing the effects of product lifecycles
- Minimizing the environmental footprint in the manufacturing operation
- Employing AI to design products that offer greater durability and require limited resources.
- Recognizing eco-efficient manufacturing methods that reduce emissions and waste. This results in more sustainable products and enhances trademark reputation.

## **4. AI’s Role in Improving Financial Performance**

### **4.1 Reducing Operational Costs through Automation**

Automation represents one of the most important advantages of artificial intelligence. Organizations can reduce costs when recurring tasks—such as data entry, inventory checks, and customer inquiries—are system driven. Simultaneously, AI-driven automation lessens the manual workload, thereby minimizing human defect and enhancing overall workflow efficiency. Furthermore, AI-driven predictive maintenance detects machinery problems prior to breakdowns, thus averting expensive restores.

### **4.2 Enhancing Revenue through Personalization**

Artificial Intelligence examines vast quantities of customer data to perceive preferences. This assists organizations: • recommend products according to personal tastes • Anticipate purchasing behaviour • Boost sales and foster customer commitment • Improve user satisfaction by customizing marketing messages to individual choices. Worldwide e-commerce giants such as Amazon, Alibaba, and Myntra use AI for personalized advertising and product recommendations, resulting in increased returns.

### **4.3 Financial Forecasting and Risk Reduction**

Artificial Intelligence offers immediate financial observation that assist companies in mitigating risks. Artificial Intelligence enhances risk detection by perpetually examining real-time financial patterns, enabling businesses to identify atypical activities prior to their escalation. AI technologies detect fraud, anticipate market fluctuations, and uncover business opportunities. Consequently, organizations are equipped to make more assured long-term decisions and sustain consistent financial expansion.

### **4.4 Data-Driven Decision Making**

Artificial Intelligence is competent of rapidly analysing vast quantities of information. This enables managers to obtain clear and worthwhile insights, facilitating informed decision-making. Additionally, AI identifies significant trends and relationships within data that may be



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missed by humans, assisting organizations in making more accurate and well-informed choices. Enhanced decision-making results in enhance business performance.

## **5. AI in Global Commerce**

### **5.1 Enhancing Global Supply Chains**

Artificial Intelligence boosts worldwide supply chains by: • Anticipating demand • Streamlining delivery routes • Minimizing power consumption • Preventing production delays • Enhancing supply chain visibility via real-time monitoring and monitoring. This leads to increased global productivity and cost reduction.

### **5.2 Competing in International Markets**

Artificial Intelligence provides businesses with a market -driven edge by delivering real-time market insights. This facilitates an advanced understanding of global competition, enabling companies to modify their plans according to market conditions. Consequently, this empowers businesses to constructs targeted strategies that are in harmony with local demands and competitive market scene.

### **5.3 Supporting Digital Trade and E-Commerce**

Artificial Intelligence facilitates digital payment systems, deception, automated customer service, and online marketing. Artificial Intelligence also boosts customer engagement by providing real-time suggestions and personalized shopping experiences that enhance conversion rates. By incorporating these AI functionalities, businesses can optimize online operations, increase customer trust, and empower seamless global digital transactions.

### **5.4 Transforming Traditional Business Models**

Artificial Intelligence facilitates the emergence of unique and new business models, including: • Subscription services • Intelligent manufacturing • Logistics services powered by AI • Online platforms and marketplaces • Customer support solutions driven by AI. This helps customer to know more about new and unique things. These advancements enable businesses to expand on a global scale.

## **6. AI, Sustainability, and Corporate Social Responsibility (CSR)**

### **6.1 Tracking Sustainability Progress**

AI systems together information regarding carbon emissions, resource consumption, labour conditions, and environmental effects. These insights enable companies to comprehend the impact of their operations on the environment throughout various production stages.it helps to surrounding to understand through the implementation of AI-driven monitoring, organizations can generate precise sustainability reports and pinpoint areas requiring enhancement.

### **6.2 Ethical and Green Decision Making**

AI insights assist organizations in making ethical decisions, including the selection of environmentally friendly suppliers and the reduction of packaging waste. AI is capable of



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assessing the environmental impact of various production techniques, thereby aiding companies in identifying and understanding the most sustainable options.

### **6.3 Building Trust with Stakeholders**

Consumers expect companies to utilize technology in a responsible manner. They anticipate that companies will exhibit transparency regarding the application of AI tools in their sustainability initiatives. The use of AI in sustainability not only improves brand reputation but also draws in customers and investors who are environmentally conscious. It helps to build strong customer relationships with the brand.

## **7. Challenges in Adopting AI (Expanded)**

Although Artificial Intelligence presents considerable advantages, organizations encounter numerous obstacles that may hinder or complicate its implementation. In today's world, there are certain challenges to using and adapting AI, and some risks are involved in it. These financial constraints frequently compel businesses to postpone or reduce their AI initiatives, thereby impeding the overall speed of technological advancement. Such difficulties are particularly evident in developing economies and within small to medium-sized enterprises (SMEs). The subsequent sections will elaborate on the primary challenges in detail.

### **7.1 High Implementation Costs (Expanded)**

The implementation of AI systems necessitates a significant financial commitment, which encompasses expenses related to advanced hardware, software licenses, cloud computing infrastructure, and data storage. Numerous smaller enterprises find it challenging to allocate an adequate budget for sophisticated tools, specialized personnel, and the continuous maintenance of systems, thereby hindering their ability to compete with larger corporations that can more readily invest in state-of-the-art AI solutions. Moreover, AI models demand consistent maintenance, updates, and enhancements to maintain their effectiveness. The recruitment of AI specialists—such as machine learning engineers, data scientists, and cybersecurity professionals—imposes additional financial strain on organizations. In certain instances, companies are compelled to implement AI technologies in gradual, incremental phases instead of executing a comprehensive solution all at once. These expenses create obstacles for smaller firms striving to compete with larger entities that can effortlessly invest in advanced systems. Furthermore, the return on investment (ROI) associated with AI adoption is not always immediate. Organizations may require several months or even years to observe tangible results, rendering it a precarious investment for those with constrained financial resources. More technology is used in it consequently, many businesses are reluctant to embrace AI, despite their awareness of its long-term advantages.

### **7.2 Skill Gaps (Expanded)**

One of the primary obstacles to AI adoption is the shortage of skilled professionals. The implementation of modern AI systems requires substantial technical expertise, including



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proficiency in data analysis, machine learning, and advanced programming techniques. Many employees lack familiarity with these sophisticated technologies and necessitate extensive training to utilize AI tools effectively. Organizations frequently encounter challenges in locating qualified talent, as there exists a global deficit of AI and data science specialists. This scarcity escalates hiring expenses and constrains the pace at which companies can incorporate AI systems into their operations. Furthermore, current employees may experience anxiety regarding job security due to automation, leading to resistance against the adoption of AI tools. In the absence of adequate training and capacity-building initiatives, employees may find it difficult to leverage it becomes pressure to the employees AI tools to their fullest potential, thereby diminishing the overall effectiveness of AI integration. To mitigate this issue, companies must allocate resources towards awareness programs and ongoing training to assist workers in perceiving AI as a supportive resource rather than a threat. Consequently, skill development and capacity building are crucial to ensure that AI can be utilized correctly and efficiently within business environments.

### **7.3 Data Privacy and Security Issues (Expanded)**

AI systems rely on data—often substantial amounts of personal, financial, and behavioural information. The management of highly sensitive personal and behavioural data places organizations at considerable risk, including privacy violations, misuse of information, more dangerous to the human related to their personal information and illegal data access. Should companies neglect to secure their data, they may put customers at risk of identity theft, fraud, and unauthorized monitoring. Numerous companies also face challenges in adhering to global data protection regulations such as the General Data Protection Regulation (GDPR) and various national data privacy laws. Failure to comply can result in significant fines, legal repercussions, and a deterioration of consumer trust. Moreover, the storage and processing of large datasets heighten the likelihood of mismanagement or data breaches. When such breaches happen, the repercussions can be dire, resulting in legal penalties, damage to reputation, and a loss of customer confidence. Cybercriminals may specifically target AI systems because they store valuable information. Consequently, organizations must invest in robust cybersecurity measures, encryption technologies, and ethical data management practices to safeguard customer information. Privacy issues become more pronounced when AI employs real-time surveillance, facial recognition, or predictive behaviour analysis, prompting discussions about the boundaries of data collection and consumer consent.

### **7.4 Ethical Concerns (Expanded)**

AI systems occasionally generate decisions influenced by biased data, resulting in unjust or discriminatory outcomes. For example, an AI recruitment tool that is trained on biased information may favour certain Demographics while dismissing others. Similarly, predictive policing tools might inaccurately target particular communities due to imbalances in historical



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data. Ethical concerns also emerge when AI is utilized for: • monitoring employees, • recognizing faces, • profiling consumers, • making automated decisions without transparency. • Misappropriation of personal data stemming from inadequate security measures. • Absence of accountability when AI-generated decisions lead to harm. It must be where preventive and carefully examine by the person. Organizations must guarantee that AI systems are developed and trained with fair, diverse, and representative datasets. Clear algorithms and ethical guidelines are essential to avert discrimination, safeguard human rights, and uphold fairness. Another ethical concern pertains to accountability. When an AI system makes a mistake, it is frequently ambiguous who should be held accountable—the programmer, the organization, or the machine itself. This ambiguity can lead to legal and ethical challenges. Consequently, organizations should implement robust ethical frameworks, conduct audits, and establish policies that ensure AI is employed responsibly, transparently, and equitably.

**8. The Future of AI in Sustainable Global Commerce**

**8. The Future of AI in Sustainable Global Commerce (Expanded)**

**8.1 Growth of Green AI (Expanded)**

Green AI pertains to the development of artificial intelligence systems that utilize less energy, produce lower carbon emissions, and function in an environmentally responsible manner. Conventional AI models, particularly deep learning systems, generally demand substantial computational power, leading to elevated energy consumption and considerable carbon emissions. As global awareness of ecological issues increases, the need for green AI systems has expanded. Green AI promotes sustainable development by concentrating on: • Energy-efficient algorithms that necessitate fewer computational resources • Eco-friendly data centres powered by renewable energy • Optimized hardware designed to reduce power consumption • Compact product designs that lessen training duration and environmental impact • Incorporation of renewable energy sources to facilitate AI training and data-processing activities. • AI architectures crafted to prioritize low-energy computations without compromising accuracy. Organizations such as Google, Microsoft, and Amazon are making significant investments in carbon-neutral data centres and more efficient computing technologies. By embracing Green AI, businesses worldwide can mitigate their environmental footprint while still reaping the benefits of advanced analytics and automation. It helps to the world to know more about eco-friendly data collection and to know more about the safety. In the future, Green AI is expected to become an essential criterion for companies striving to achieve sustainability objectives, adhere to environmental regulations, and attract eco-conscious investors and customers.

**8.2 Expansion of AI in Circular Economy Models (Expanded)**

A circular economy represents a sustainable approach that emphasizes the reduction of waste, the reuse of materials, and the recycling of products to establish a closed-loop production



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system. Artificial Intelligence (AI) is increasingly recognized as a vital tool for facilitating and expanding practices associated with the circular economy. AI contributes to circular economy initiatives in various ways:

- **Product Lifecycle Prediction:** AI has the capability to forecast when a product will require repair or replacement, thereby preventing waste.
- **Optimized Recycling Systems:** AI-driven robots can more accurately detect and sort recyclable materials compared to human efforts.
- **Raw Materials Selection:** Algorithms are able to identify environmentally friendly materials that enhance durability and recyclability.
- **Reverse Logistics:** AI assists companies in efficiently managing the return, repair, and refurbishment of used products.
- **Machine learning algorithms** can evaluate return patterns to optimize transportation routes, reduce reverse supply chain expenses, and minimize environmental impact.
- **AI-powered tracking systems** can monitor returned items in real-time, aiding companies in determining which products can be repaired, refurbished, or recycled.

Sectors such as fashion, electronics, and automotive manufacturing are progressively embracing AI-driven circular models to decrease raw material usage and prolong product lifecycles. It helps to know more and correct data of the company. For instance, fashion brands utilize AI to predict demand and avert unsold inventory, while electronics firms employ smart sensors to assess which components can be repaired or recycled. By facilitating more intelligent material flows, improved waste management processes, and long-term resource optimization, AI bolsters the shift towards a completely circular economic framework.

**8.3 AI as a Tool for Global Economic Development (Expanded)**

Artificial Intelligence possesses a significant capacity to foster economic advancement, particularly in developing and emerging nations. By enhancing efficiency, boosting agricultural productivity, supporting healthcare infrastructures, and facilitating access to digital financial services, AI has the potential to alleviate poverty, generate employment, and encourage inclusive growth.

**AI in Agriculture** AI technologies assist in monitoring soil conditions, forecasting weather variations, and detecting crop diseases. Intelligent irrigation systems that utilize AI to assess soil moisture can automatically modify water distribution, thereby minimizing waste and ensuring that crops receive adequate hydration. This enables farmers to increase yields, decrease water consumption, and reduce crop losses. In areas with scarce resources, AI-driven agriculture can greatly enhance food security.

**AI in Healthcare** AI improves diagnostic precision, facilitates remote patient monitoring, and enhances disease forecasting. AI-enabled telemedicine platforms enhance healthcare accessibility in remote or underserved areas by linking patients with specialists in real-time. In nations with limited healthcare availability, AI-based systems can reach rural and marginalized communities.

**AI in Education** AI-driven personalized learning systems empower students to progress at their own pace, addressing educational disparities. Intelligent tutoring systems can offer immediate feedback, assisting students in grasping complex subjects without the constant need for direct



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teacher intervention. Digital resources create opportunities for remote education and skill enhancement. AI in Small Business and Finance AI aids micro-entrepreneurs in securing loans, managing inventory, and analysing sales data. Automated credit evaluation systems leverage alternative data to assess borrowers more effectively, allowing micro-entrepreneurs to obtain affordable loans. Digital financial solutions such as catboats and automated credit assessments support small businesses in their growth and competitiveness. Helps to get company records as developing nations integrate AI into essential sectors, they can expedite economic progress, generate new job prospects, and engage more actively in the global economy.

#### **8.4 Integration with Emerging Technologies (Expanded)**

The future of global commerce will rely significantly on the integration of AI with other rapidly evolving technologies. When these technologies are combined, they form powerful systems that enhance efficiency, minimize environmental impact, and foster innovation. AI + Internet of Things (Iota) Iota devices gather real-time data from factories, buildings, vehicles, and supply chains. AI-enabled Iota sensors can identify equipment failures before they happen, thereby reducing downtime and enhancing overall operational efficiency. This ai tools helps to know the past data and to insure the information AI analyses this data to optimize operations, foresee issues, and decrease energy consumption. For instance, smart factories utilize AI and Iota to minimize waste and boost production efficiency. AI + Block chain Block chain enhances transparency and security, while AI processes data and makes informed decisions. The combination of these technologies: • enhances supply chain accuracy • mitigates fraud • guarantees ethical sourcing • promotes fair and reliable reporting • improves real-time verification of transactions across global supply chains. • fortifies data integrity by merging AI-driven analytics with tamper-proof block chain records. AI + Robotics AI-driven robots can execute complex tasks such as precision manufacturing, warehouse automation, and environmental monitoring. These robots improve workplace safety by undertaking hazardous tasks that pose risks to human workers. AI-powered robots contribute to reducing workplace accidents, enhancing productivity, and supporting sustainability objectives in sectors like agriculture, mining, and logistics. AI + Clean Energy Technologies AI optimizes the utilization of renewable energy sources such as solar and wind. It forecasts energy demand, manages smart grids, and enhances storage systems. Additionally, AI aids in the early detection of faults in renewable energy equipment, thereby reducing downtime and improving overall system reliability. This integration facilitates global transitions towards low-carbon energy solutions. Together, these technologies expedite sustainable and financial transformation, empowering companies to innovate, compete, and thrive.

#### **9. Conclusion**

Artificial Intelligence is becoming a crucial driver of sustainable growth and enhanced financial performance in the global market. It is the most important tool to solve and to know



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the customer data. As AI continues to advance, its strategic implementation will play an increasingly important role in shaping resilient, future-ready, and globally responsible businesses. AI assists organizations in reducing costs, increasing efficiency, enhancing customer experiences, and achieving environmental objectives as a transformative digital technology. AI bolsters organizational capabilities by improving efficiency, refining decision-making, and enabling companies to swiftly respond to market and environmental challenges. Despite the existence of challenges—such as high costs, skill shortages, and privacy issues—the long-term advantages of AI outweigh the drawbacks. By incorporating AI into essential business functions, organizations secure a competitive edge and prepare themselves for sustained success in an ever-evolving digital economy. In summary, AI acts as a formidable force.

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