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Impact Of Artificial Intelligence On Business Operations And Strategy

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Abstract:

Artificial Intelligence (AI) is driving a significant and positive change in how businesses operate, fundamentally changing established models and pushing enterprises towards a more efficient and innovative future. This concise abstract explores the intricate influence of artificial intelligence (AI) on several aspects of corporate operations. It thoroughly analyses the development and present uses of AI, as well as successful cases, obstacles, and forthcoming trends. An Examination of the Role of AI in the Operations of Businesses. Artificial Intelligence (AI) is being Increasingly Utilized in Several Aspects of Business Operations. An extensive examination of AI applications includes the enhanced efficiency of automation, the predictive capabilities of analytics, the transformative influence of AI in Customer Relationship Management (CRM), and its effects on Supply Chain Management. This research takes a look at the influence of AI on business activities while focusing on operational advantages, adoption rates in important domains, and problems in implementation. These stories emphasize the concrete advantages that AI provides to many industries.

Keywords: Artificial Intelligence, Business Strategy, Business Operations, Economy, Automation, AI adoption, Security Risks.

Introduction:

Artificial intelligence (AI) has become a game-changer in business operations, transforming the way organizations make decisions, automate processes, engage with customers, and manage supply chains. As AI technologies continue to advance rapidly, it is crucial to understand their current state and future implications for businesses. This article explores the impact of AI on various aspects of business operations, delving into the current landscape and discussing potential future developments. The Current State of AI in Business Operations: AI has already made inroads industries, significant across revolutionizing decision-making processes, automating tasks, and enhancing customer service and supply chain management.

Automation powered by AI has led to increased efficiency and productivity, enabling organizations to streamline operations and optimize resource allocation.

Objectives:

- 1) To assess the current state of artificial intelligence (AI) technologies business operations.
- 2) To examine the impact of AI on decision-making processes in business operations.
- 3) To analyze the role of AI in automating tasks and processes within organizations.

Overview of Artificial Intelligence:

AI technologies are transforming the business landscape by enabling advanced data analysis, automation, and decision-making. Machine learning is a subfield of AI that provides computers the ability to learn through experience without being explicitly programmed Machine learning algorithms, computer vision, and natural language processing are some of the most significant AI technologies that businesses use. With the help of these technologies, businesses can increase overall operational efficiency, automate timeconsuming tasks, and extract valuable information from massive datasets.

Artificial intelligence (AI) is a branch of computer science that focuses on creating intelligent machines capable of performing tasks that typically require human intelligence. It involves developing algorithms and systems that can process and analyze large amounts of data, learn from patterns and experiences, and make decisions or predictions. There are various types of AI, including narrow AI and general AI. Narrow AI, also known as weak AI, is designed to perform specific tasks within a limited domain, such as speech recognition, image classification, or data analysis. General AI, on the other hand, refers to highly autonomous systems that possess human-level intelligence and can perform a wide range of cognitive tasks. While general AI remains a concept for future development, narrow AI has seen significant advancements and widespread applications.

AI utilizes several key technologies and techniques, including machine learning, natural language processing, computer vision, and robotics. Machine learning, a subset of AI, enables systems to automatically learn and improve from data without being explicitly programmed. Natural language processing allows machines to understand and interpret

human language, enabling tasks such as speech recognition and language translation. Computer vision enables machines to perceive and understand visual information, such as image or video analysis. Robotics combines AI with physical systems to create intelligent machines that can interact with the physical world. The applications of AI are vast and diverse. In business operations, AI is used for decision-making, process automation. customer service, and supply chain management

Business Strategy:

AI in business has rapidly evolved from an emerging technology to a business necessity. In 2025, AI is poised to revolutionize industries by reshaping business strategies focused on efficiency, decision-making and customer engagement. Companies that fail to integrate AI risk losing relevance and competitiveness.

Helps businesses identify new opportunities and create innovative products or services. Provides data-driven insights for more informed and strategic decisions. Continuously monitor the performance of AI models and be prepared to adapt and refine your strategy as technology evolves and new insights are gained.

Business Operations:

AI technology promises significant benefits for businesses, including improved customer engagement, data analysis, of processes, strategic automation recommendations, and enhanced decision making. This systems can analyze vast amounts of data, which enables real-time decision-making and the optimization of business processes. Virtual assistants can provide 24×7 service, resolving common issues and enhancing customer experience. AI can resolve quality issues in real time. It also analyze sales patterns and predict future sales, helping businesses maintain optimal inventory levels.

To underscore the significance of AI in modern business, let's consider some key statistics:

- 77% of companies are either using or exploring the use of AI in their businesses
- 83% of companies claim that AI is a top priority in their business plan
- AI could increase labor productivity growth by 1.5 percentage points over the next ten years
- Globally, AI-driven growth could be nearly 25% higher than automation without AI
- 56% of businesses are using AI to improve and perfect business operations
- 51% are turning to AI to help with cybersecurity and fraud management
- 47% harness AI tools in the form of digital personal assistants
- 46% are using AI for customer relationship management
- 40% are turning to AI for inventory management

Conclusion:

Increase efficiency through task automation, improves decision-making with help of AI, but it necessitates careful strategic integration, ethical considerations, workforce adaptation, and a balanced approach that combines AI with human intelligence for sustainable growth.

AI has become a game-changing force that reshapes how modern businesses operate. Companies face hurdles with data quality and skills development, but the rewards of successful AI adoption are substantial in businesses of all types. Organizations actively

using AI report better revenue, improved operations, and happier customers.

The impact of AI on business operations is undeniable, transforming the way organizations operate and interact with their stakeholders. The current state of AI has already demonstrated its potential to improve decision-making, automate processes, enhance customer service, and optimize supply chain management. Looking ahead, the future implications of AI in business operations are promising, with advancements poised revolutionize multiple aspects of functioning. organizational However, organizations must navigate challenges, both technical and ethical, to leverage the full potential of AI while ensuring responsible and sustainable integration. As AI technologies continue evolve, businesses strategically adopt and harness AI capabilities has gain a competitive advantage in an increasingly AI-driven world. Embracing AI technologies with a thoughtful and strategic approach has empower organizations to unlock new levels of operational efficiency, customer satisfaction, and business growth.

References:

- https://www.researchgate.net/publication/3 82885484 IMPACT OF ARTIFICIAL I NTELLIGENCE ON BUSINESS BUSI NESS OPERATIONS AND STRATEG Y
- 2. https://www.microsourcing.com/learn/blog/the-impact-of-ai-on-business/
- 3. <u>file:///C:/Users/LIBRARY5/Documents/D</u> <u>ownloads/JPNR+-+S10+-+678.pdf</u>
- 4. <u>file:///C:/Users/LIBRARY5/Desktop/Acad</u> <u>emic%20Year%202025-</u> 26/Research%20Paper%20-AI.pdf
- 5. https://www.thestrategyinstitute.org/insigh ts/the-role-of-ai-in-business-strategies-for-2025-and-beyond
- 6. https://www.investopedia.com/how-ai-is-used-in-business-8611256