Wisdom Journal For Studies And Research Volume 06 Issue 03/ 15-03-2026
ISSN print/ 2769-1926 ISSN online/ 2769-1934

The Role of Artificial Intelligence in Enhancing Business Operations and Decision Making

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Received:09/02/2026 Accepted : :11/03/2026

Abstract:

Artificial intelligence (AI) has emerged as a transformative force in contemporary business environments, fundamentally reshaping operational processes and managerial decision-making. This study examines the role of AI in enhancing business operations, decision-making effectiveness, and organizational adaptability across diverse industry sectors. Employing a qualitative research methodology, semi-structured interviews were conducted with twelve professionals and managers from sectors including banking, manufacturing, healthcare, logistics, retail, telecommunications, consulting, education, and technology. Collected data were analyzed using thematic analysis, allowing the identification of major patterns related to AI adoption and its organizational implications. The findings reveal that AI substantially improves business operations through automation, workflow optimization, predictive analytics, and operational efficiency gains. Participants reported measurable reductions in operational costs, faster processing times, and improved service quality. Regarding decision-making, AI was found to enhance decision quality, accelerate analytical processes, strengthen strategic planning, and support organizational risk assessment by providing data-driven insights in real time. Furthermore, AI adoption contributes to greater organizational agility and competitive adaptability within dynamic business contexts. However, the findings also highlight key organizational challenges, including resistance to change, lack of technical expertise, trust and transparency concerns, ethical and privacy issues, and infrastructure

limitations. The study concludes that successful AI integration demands effective leadership, strong data governance, employee readiness, and a collaborative model in which human judgment complements AI-supported systems. These findings carry significant theoretical and managerial implications for organizations pursuing responsible and impactful AI-driven digital transformation.

Keywords: Artificial Intelligence; Business Operations; Decision-Making; Organizational Adaptability; AI Adoption; Digital Transformation.

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ISSN print/ 2769-1926 ISSN online/ 2769-1934

دور الذكاء الاصطناعي في تحسين العمليات التجارية واتخاذ القرارات

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الملخص:

أصبح الذكاء الاصطناعي قوةً محوريةً تُعيد تشكيل بيئات الأعمال المعاصرة، إذ يُحدث تحولاً جوهرياً في العمليات التشغيلية وعمليات اتخاذ القرار الإداري. تهدف هذه الدراسة إلى استكشاف دور الذكاء الاصطناعي في تعزيز العمليات التجارية وفاعلية اتخاذ القرار والقدرة التكيفية للمنظمات عبر قطاعات صناعية متعددة. اعتمدت الدراسة منهجاً بحثياً نوعياً، تمثّل في إجراء مقابلات شبه منظمة مع اثني عشر مختصاً ومديراً من قطاعات متنوعة تشمل: البنوك والتصنيع والرعاية الصحية والخدمات اللوجستية والتجزئة والاتصالات والاستشارات والتعليم والتكنولوجيا. وقد خُضعت البيانات المجمّعة للتحليل الموضوعي بهدف استخلاص الأنماط الرئيسية المتعلقة بتبنّي الذكاء الاصطناعي وانعكاساته التنظيمية. كشفت النتائج أن الذكاء الاصطناعي يُسهم إسهاماً ملموساً في تحسين العمليات التجارية عبر الأتمتة وتحسين سير العمل والتحليلات التنبؤية وتعزيز الكفاءة التشغيلية؛ وأفاد المشاركون بانخفاض ملحوظ في التكاليف التشغيلية وتسريع وتيرة المعالجة وارتقاء بجودة الخدمة. وفيما يخص اتخاذ القرار، تبيّن أن الذكاء الاصطناعي يُحسّن جودة القرارات ويُسرّع العمليات التحليلية ويُعزّز التخطيط الاستراتيجي ويدعم تقييم المخاطر التنظيمية. غير أن النتائج أبرزت أيضاً تحديات تنظيمية جوهرية، أبرزها: مقاومة التغيير وشُح الكفاءات التقنية ومخاوف الثقة والشفافية وقضايا الأخلاقيات والخصوصية والقيود البنية التحتية. وخلصت الدراسة إلى أن نجاح تكامل الذكاء الاصطناعي يستلزم قيادة فاعلة وحوكمة بيانات راسخة واستعداداً وظيفياً ملائماً، فضلاً عن نموذج تعاوني يجمع بين الحكم البشري والأنظمة المدعومة بالذكاء الاصطناعي.

الكلمات المفتاحية: الذكاء الاصطناعي؛ العمليات التجارية؛ اتخاذ القرار؛ التكيف التنظيمي؛ تبني الذكاء الاصطناعي؛ التحول الرقمي.

Wisdom Journal For Studies And Research Volume 06 Issue 03/ 15-03-2026
ISSN print/ 2769-1926 ISSN online/ 2769-1934

Introduction

Artificial intelligence (AI) has rapidly emerged as a major force transforming modern business landscapes. Advances in machine learning, natural language processing, and automation have redefined how organizations operate, compete, and create value over the past decade. Businesses across sectors increasingly rely on AI-powered systems to analyze vast datasets, uncover complex patterns, and generate predictive insights that support managerial decision-making (Oyekunle & Boohene, 2024). Consequently, AI has evolved from a technical innovation into a strategic resource capable of enhancing organizational performance, operational efficiency, and sustainable competitive advantage (Samara et al., 2024).

Despite the widespread enthusiasm surrounding AI adoption, its organizational impacts remain inconsistent. While some organizations report significant improvements in efficiency and decision quality, others struggle to realize similar benefits, hampered by factors such as organizational readiness, skills shortages, data quality, and leadership gaps (Rane et al., 2024; Manoharan et al., 2024). Furthermore, the academic literature remains fragmented, with most studies focusing on technical capabilities or specific industry applications, leaving a gap in understanding AI's broader organizational and managerial dimensions.

This study addresses this gap by examining how professionals across multiple industries perceive and experience AI adoption in their operational and decision-making processes. Adopting a qualitative approach grounded in an interpretivist philosophy, the research generates rich insights into both the opportunities and challenges of AI integration in contemporary business contexts.

The study pursues three research objectives: (1) to explore how AI is utilized in business operations and managerial decision-making; (2) to examine professionals' perceptions of AI's impact on operational efficiency and decision quality; and (3) to identify the opportunities and challenges associated with AI adoption in organizational settings.

I. Literature Review and Theoretical Framework

1 Artificial Intelligence in Business

Artificial Intelligence refers to computer systems' ability to perform tasks that typically require human intelligence including learning, reasoning, pattern

recognition, and decision-making. In business contexts, AI encompasses technologies such as machine learning, deep learning, natural language processing, robotic process automation, and intelligent decision-support systems (Rane et al., 2024; Weng et al., 2024). These technologies enable organizations to process large volumes of structured and unstructured data, automate complex processes, and generate actionable insights that enhance operational efficiency and facilitate strategic decision-making.

Scholars have increasingly argued that AI should be viewed not merely as a collection of advanced technologies, but as an organizational capability that fundamentally transforms how firms operate and compete. From this perspective, AI functions as a digital transformation enabler that enhances organizational efficiency, responsiveness, and innovation (Oyekunle et al., 2024). Chowdhury et al. (2024) further stress that AI-powered systems empower organizations to rethink legacy business models and forge novel pathways for competitive advantage, enabling greater agility and personalization in value creation.

2 AI in Business Operations

Business operations encompass the various activities organizations use to produce goods and services and deliver value to customers. AI has become a common tool for optimizing these activities through automation, process optimization, and predictive analytics. AI-powered automation enables organizations to streamline time-intensive tasks, leading to improvements in productivity, process consistency, and operational reliability (Martins, 2024). Beyond automation, machine learning and predictive analytics allow firms to analyze operational datasets, identify workflow inefficiencies, and recommend corrective actions.

In supply chain and logistics, AI is highlighted as a key enabler of improved coordination, demand forecasting, and inventory optimization (Eyo-Udo, 2024; Ramasamy et al., 2024). AI-driven predictive maintenance systems leverage sensor data and historical performance records to forecast equipment failures before they occur, significantly improving reliability and reducing costs (Martins, 2024). Collectively, these capabilities enable organizations to shift from reactive to proactive operational management.

3 AI and Decision-Making

Decision-making is a fundamental managerial function that directly impacts organizational performance. AI-powered decision-support systems assist

managers by providing analytical insights, forecasts, and recommendations derived from large, complex datasets. These systems help organizations move from descriptive to predictive and prescriptive analytics, improving both the quality and speed of decisions (Kumar et al., 2024). Kubatko et al. (2024) underscore that AI enhances decision quality by filtering, prioritizing, and synthesizing the most relevant data reducing cognitive biases and information overload.

Sadeghi et al. (2024) highlight the importance of explainable AI as a critical factor for building managerial trust and ensuring transparency in decision processes. When managers understand how AI systems arrive at recommendations, they are more likely to adopt those insights. Herath Pathirannehelage et al. (2025) further argue that the most effective approach to AI-enhanced decision-making involves a balanced integration of machine intelligence and human judgment, preserving ethical accountability and contextual awareness.

4 Theoretical Framework

This study is grounded in two complementary theoretical perspectives. The Resource-Based View (RBV) positions AI as a strategic organizational resource that, when embedded in organizational routines and aligned with business goals, can yield competitive advantages characterized by value, rarity, inimitability, and non-substitutability (Neiroukh et al., 2025; Oyekunle & Boohene, 2024). Decision Support Systems (DSS) theory, meanwhile, provides a framework for understanding how AI-based systems enhance managerial decision-making by improving information quality, analytical capacity, and decision effectiveness. Together, these perspectives ground AI as simultaneously an operational capability and a decision-support mechanism.

II. Research Methodology

1 Research Design and Philosophy

This study adopts a qualitative research design underpinned by an interpretivist philosophical stance. Interpretivism holds that reality is socially constructed through human experience and perception, and is therefore best understood through in-depth engagement with participants' perspectives (Creswell & Creswell, 2017). Given that the study aims to explore how professionals understand and experience AI adoption in organizational

contexts phenomena inherently shaped by subjective interpretation this approach is both philosophically and methodologically appropriate. An inductive research approach was employed, allowing themes and patterns to emerge organically from the data rather than testing predetermined hypotheses.

2 Data Collection

Primary data were collected through semi-structured interviews with twelve participants purposively selected from organizations that had integrated AI technologies into their operational or managerial activities. Purposive sampling ensured that all participants possessed direct experience of AI adoption in professional contexts (Saunders et al., 2009). Participants were drawn from diverse sectors including banking, manufacturing, healthcare, logistics, retail, telecommunications, consulting, education, e-commerce, hospitality, real estate, and technology to capture a broad range of organizational experiences.

The interview guide covered thematic areas including: organizational AI adoption practices, AI's impact on operational efficiency and decision-making, organizational challenges to AI integration, and future perspectives on AI in business. Interviews were conducted online and face-to-face, depending on participant availability, and detailed documentation was maintained throughout the data collection process.

Table 1. Participant Demographic Information

Participant	Position	Industry	AI Experience	AI Involvement
P1	Operations Manager	Manufacturing	4 Years	Process Automation
P2	IT Specialist	Information Technology	5 Years	AI Systems Integration
P3	Project Manager	Construction	3 Years	Decision Support Systems
P4	Marketing Manager	Retail	4 Years	Customer Analytics
P5	Financial Analyst	Banking	6 Years	Predictive Analytics
P6	Supply Chain Supervisor	Logistics	5 Years	Demand Forecasting
P7	HR Manager	Telecommunications	3 Years	Recruitment Automation
P8	Business Dev. Manager	Healthcare	4 Years	Strategic Planning Support
P9	Data Analyst	E-commerce	5 Years	Business Intelligence
P10	Operations Supervisor	Hospitality	2 Years	Workflow Optimization
P11	Senior Manager	Education	4 Years	AI-Based Reporting
P12	Technical Consultant	Consulting	6 Years	AI Advisory & Integration

3 Data Analysis

Interview data were analyzed using thematic analysis following the framework proposed by Braun and Clarke (2006). Responses were systematically coded and grouped into broader thematic categories aligned with the study's research objectives and conceptual framework. The emerging themes were then interpreted in relation to the existing literature. Trustworthiness was ensured through credibility (purposive participant selection, open-ended questioning), dependability (consistent interview and coding procedures), and confirmability (grounding themes in participant responses rather than researcher assumptions).

III. Results and Discussion

1 Business Operations Enhancement

Automation emerged as the most prominent and consistently reported operational benefit of AI adoption. Participants across all twelve organizations described AI-driven automation as a significant driver of operational efficiency, reducing manual workloads, minimizing errors, and

improving process consistency. A participant from the manufacturing sector explained that AI-enabled predictive maintenance transformed operations from a reactive repair model to a proactive one, substantially reducing downtime and improving production reliability.

Operational efficiency improvements were reported across multiple dimensions. Participants in logistics described fuel cost reductions of approximately 15% per unit delivered, attributable to AI-driven route optimization. Workforce scheduling optimization in retail reduced overtime costs by around 18% year-on-year. In banking, credit decisions that previously required two days were completed in minutes through AI-automated risk assessment. These findings align with Martins (2024), who highlights AI-enabled automation as a key lever for productivity gains and workflow consistency.

Table 2. AI Impact on Business Operations — Key Findings

Operational Domain	AI Application	Reported Impact
Automation	Fraud detection; predictive maintenance; scheduling	Reduced downtime; faster processing; lower error rates
Operational Efficiency	Route optimization; workforce scheduling; analytics	Cost reduction 15–18%; accelerated workflows
Workflow Optimization	Process coordination; resource allocation	Improved scheduling precision; better cross-department coordination
Predictive Analytics	Demand forecasting; churn prediction; risk modeling	Proactive planning; reduced uncertainty; improved resource allocation

Predictive analytics was identified as strategically critical across sectors. Participants described AI systems forecasting customer demand, predicting equipment failure, and modeling financial risk in real time. A banking participant noted that AI fraud detection systems ingest thousands of transactions per second, identifying suspicious patterns instantaneously a capability far beyond traditional manual monitoring. In healthcare, AI-supported patient readmission prediction enabled early clinical intervention. These findings are consistent with Resource-Based View theory, which positions advanced analytical AI capabilities as a strategic resource yielding competitive differentiation (Oyekunle & Boohene, 2024).

2 Decision-Making Effectiveness

AI was broadly reported to improve decision quality across operational, tactical, and strategic levels. Participants described AI systems enabling more evidence-based, data-driven decision-making by processing complex datasets and surfacing patterns invisible to traditional analytical methods. A banking sector participant noted that AI reduced cognitive biases in credit scoring, improving both accuracy and consistency of financial decisions.

Table 3. AI Impact on Decision-Making — Key Findings

Decision Dimension	AI Contribution	Reported Organizational Outcome
Decision Quality	Real-time data; predictive insights; bias reduction	More accurate and consistent managerial decisions
Speed of Decision-Making	Automated data analysis; rapid pattern recognition	Days-long processes reduced to minutes
Strategic Planning	Scenario modeling; market forecasting; trend analysis	More informed long-term organizational strategies
Risk Assessment	Real-time risk monitoring; predictive risk modeling	Improved financial, operational, and strategic risk management
Trust in AI	Explainability; transparency; human oversight	Conditional trust; human-AI collaborative model preferred

Speed of decision-making was another dimension in which AI delivered substantial improvements. Participants consistently reported that AI-assisted analytics dramatically reduced time-to-decision across contexts from insurance claims processing (65% reduction in routine case handling time) to marketing campaign optimization. At the strategic level, AI-enabled scenario modeling and market forecasting supported longer-term planning and risk management.

However, findings also revealed that managerial trust in AI systems is not unconditional. Participants expressed concerns about explainability, data quality, and the risk of overreliance on automated recommendations. Consistent with Sadeghi et al. (2024), the research finds that explainable AI is essential for sustained managerial adoption: managers are more likely to act on AI insights when they can understand the reasoning behind them. Most participants preferred a human-AI collaborative model one in which AI provides analytical support while managers retain final decision authority.

3 Organizational Challenges of AI Integration

Despite the substantial benefits reported, participants consistently identified organizational challenges that constrained effective AI adoption. Five key challenge areas emerged from the thematic analysis.

Resistance to change was the most commonly cited barrier. Participants across multiple sectors described workforce anxiety linked to perceived job displacement and loss of operational autonomy. Telecommunications and retail participants noted that the introduction of automated systems created cultural tensions, particularly where AI-driven decisions affected employees directly. Effective change management including transparent communication, employee engagement, and retraining was identified as essential for overcoming this resistance.

Technical skills gaps represented a second major challenge. Participants from consulting, manufacturing, and healthcare described difficulties in recruiting personnel capable of implementing, managing, and interpreting AI systems. This finding is consistent with Manoharan et al. (2024), who highlight skills shortages as a persistent structural barrier to AI adoption.

Trust, transparency, and ethical concerns constituted a cluster of interrelated challenges. Participants expressed discomfort with AI systems that operated as 'black boxes,' generating recommendations without interpretable justifications. Ethical concerns regarding algorithmic bias, data privacy, and accountability were particularly prominent in healthcare and financial services, where AI-driven decisions carry significant human implications (Porkodi & Cedro, 2025).

Infrastructure and integration limitations were also identified as significant barriers. A real estate sector participant noted that property data was fragmented across incompatible systems and formats including paper records making it difficult to consolidate the high-quality, well-structured data that AI systems require. This finding underscores a broader lesson from the literature: AI's operational value is fundamentally contingent on the quality and accessibility of organizational data infrastructure.

Table 4. Organizational Challenges of AI Integration

Challenge Area	Key Issues Identified	Reported Organizational Impact
Resistance to Change	Job displacement fears; cultural inertia	Slower adoption; workforce tensions
Technical Skills Gaps	Shortage of AI-literate personnel	Implementation delays; underutilization of AI capabilities
Trust & Transparency	Black-box systems; lack of explainability	Low managerial trust; reluctance to rely on AI recommendations
Ethics & Privacy	Algorithmic bias; data privacy; accountability	Ethical risk exposure; stakeholder trust challenges
Infrastructure Limits	Fragmented data; system incompatibility	Reduced AI accuracy; limited operational integration

4 Organizational Adaptability and AI

Across all twelve organizations, AI adoption was found to contribute to enhanced organizational adaptability and competitive resilience. Participants described AI as enabling faster responses to market changes, customer preference shifts, and operational disruptions. Real-time data analysis and adaptive analytics allowed organizations to adjust strategies and processes more rapidly than traditional decision-making approaches permitted. These findings align with the operations management perspective articulated in the study's theoretical framework, which positions AI-enabled operational agility as a key source of sustained organizational advantage (Ramasamy et al., 2024). Participants also emphasized that organizational adaptability was greatest when AI initiatives were embedded within broader digital transformation strategies aligned with organizational goals and workforce capabilities.

Conclusion

This study examined the role of artificial intelligence in enhancing business operations and decision-making across diverse organizational contexts. Drawing on qualitative interviews with twelve professionals from multiple sectors, the research generated rich insights into the organizational benefits, challenges, and conditions associated with effective AI adoption.

The findings affirm that AI substantially improves business operations through automation, workflow optimization, predictive analytics, and operational efficiency gains enabling organizations to reduce costs, accelerate processes, and improve service quality. Regarding decision-making, AI was found to improve decision quality, speed, and strategic coherence by

providing evidence-based, real-time analytical support. These benefits were contingent, however, on managerial trust, system transparency, and the preservation of human oversight within a collaborative human-AI decision model.

Organizational challenges including resistance to change, technical skills deficits, trust and transparency concerns, ethical issues, and infrastructure limitations remain significant barriers to realizing AI's full potential. Successful AI adoption requires more than technological investment: it demands aligned leadership, strong data governance, robust change management, and a workforce that is prepared and empowered to work alongside AI-enabled systems.

This study contributes to the academic literature by providing empirically grounded, cross-sectoral insights into organizational experiences of AI adoption, extending beyond narrowly technical or industry-specific analyses. For practitioners, the findings offer actionable guidance for developing AI strategies that are organizationally aligned, ethically grounded, and operationally sustainable. Future research should examine AI adoption longitudinally, explore sector-specific dynamics in greater depth, and investigate how evolving AI capabilities including generative AI reshape organizational processes and managerial decision-making in different business contexts.

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