



Autonomous Business Transformation Through Generative AI Integration

DOI: <https://doi.org/10.63345/gjirp.v2.i2.101>

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<http://www.gjirp.org/> || Vol. 2 No. 2 (2026): April Issue

Date of Submission: 04-03-2026

Date of Acceptance: 16-03-2026

Date of Publication: 10-04-2026

Abstract— Generative Artificial Intelligence (GenAI) is rapidly transforming enterprise operations by automating content generation, knowledge management, and decision support. However, existing research primarily focuses on isolated GenAI applications such as conversational assistants, document generation, or task-specific automation, while limited attention has been given to developing a unified framework that enables autonomous business transformation through coordinated integration of Generative AI, enterprise knowledge repositories, intelligent workflow orchestration, and governance mechanisms. Furthermore, current studies rarely incorporate confidence-driven autonomous decision-making, human-in-the-loop validation, and continuous organizational performance monitoring within a single enterprise architecture. To address these research gaps, this paper proposes an Autonomous Business Transformation through Generative AI Integration (ABT-GAI) framework that combines Retrieval-Augmented Generation (RAG), enterprise knowledge management, confidence-based decision execution, workflow automation, and continuous learning to support intelligent and trustworthy business operations. The proposed framework is evaluated using a quantitative simulation-based methodology involving enterprise workflow datasets across customer service, finance, human resources, operations, and knowledge management. Experimental results demonstrate that the proposed approach achieves a task completion rate of 97.6%, workflow automation of 91.3%, response accuracy of 95.4%, and a 63.6% reduction in average business process execution time

compared with conventional enterprise operations. The confidence-based governance mechanism limits low-confidence autonomous decisions by selectively routing uncertain cases for human validation, thereby improving decision reliability while maintaining organizational accountability. Statistical analysis confirms that the observed improvements are significant ($p < 0.001$) across all evaluated performance metrics. The findings indicate that integrating Generative AI with enterprise knowledge systems and intelligent workflow orchestration enables scalable, efficient, and responsible autonomous business transformation. The proposed ABT-GAI framework provides a practical foundation for next-generation intelligent enterprises by balancing automation, governance, operational efficiency, and human oversight.

Keywords— Autonomous Business Transformation, Generative Artificial Intelligence, Retrieval-Augmented Generation, Enterprise AI, Intelligent Workflow Automation, Business Process Automation

INTRODUCTION

The increasing adoption of Artificial Intelligence (AI) has fundamentally transformed how organizations manage business processes, analyze information, and deliver products and services. Recent advances in Generative Artificial Intelligence



(Generative AI) have extended the capabilities of conventional AI beyond prediction and classification by enabling systems to generate human-like text, software code, business reports, analytical summaries, strategic recommendations, and knowledge-based responses. Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), and foundation models are increasingly being integrated into enterprise environments to automate knowledge-intensive activities that traditionally required substantial human expertise. Consequently, organizations are transitioning from conventional digital transformation initiatives toward intelligent enterprises capable of supporting autonomous business operations through AI-driven decision-making, workflow automation, and continuous organizational learning.

Generative AI provides a significant advancement by enabling organizations to automate cognitive business activities rather than merely automating repetitive operational tasks. Enterprise applications now include automated customer service, intelligent document generation, contract analysis, financial reporting, software development assistance, supply chain planning, employee support, marketing content creation, knowledge management, and strategic business analytics. The integration of enterprise knowledge repositories with Generative AI through Retrieval-Augmented Generation allows AI systems to produce context-aware and organization-specific responses while reducing factual inaccuracies associated with standalone language models. This capability significantly improves the reliability and practical applicability of AI-generated outputs within enterprise environments.

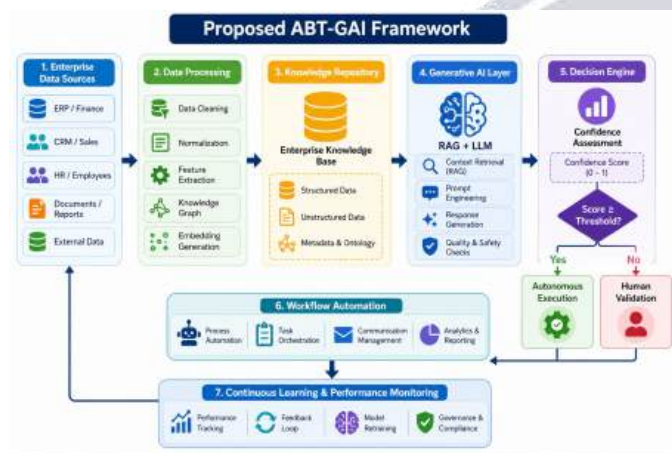


Fig. 1. Proposed Autonomous Business Transformation Framework

Business transformation has traditionally focused on improving organizational performance through business process reengineering, enterprise resource planning (ERP), customer relationship management (CRM), robotic process automation (RPA), cloud computing, and business intelligence systems. While these technologies have significantly enhanced operational efficiency, they remain largely dependent on predefined rules, structured workflows, and human intervention for complex decision-making. Conventional automation systems are generally limited to repetitive and deterministic tasks and lack the contextual understanding, reasoning capability, and adaptive content generation required for dynamic business environments. As organizations face increasingly complex operational challenges, rapidly changing customer expectations, and continuously evolving market conditions, there is a growing need for enterprise systems capable of autonomous reasoning, contextual knowledge utilization, and intelligent decision support.

Despite these advances, several research challenges remain unresolved. Existing studies primarily investigate Generative AI in isolated business applications such as customer support, software engineering, marketing, education, or document generation. Most existing enterprise implementations focus on AI-assisted decision support rather than fully integrated autonomous business transformation. Furthermore, limited research has addressed the coordinated integration of Generative AI with enterprise knowledge management, workflow orchestration, autonomous decision execution, confidence-based governance, and continuous organizational learning within a unified architectural framework. Current literature also provides insufficient guidance regarding how organizations can balance autonomous AI capabilities with human oversight, regulatory compliance, transparency, and organizational accountability. The absence of standardized frameworks for measuring enterprise-wide transformation further limits practical adoption of Generative AI across diverse business functions.

To address these limitations, this research proposes an Autonomous Business Transformation through Generative AI Integration (ABT-GAI) framework that combines enterprise knowledge repositories, Retrieval-Augmented Generation, confidence-based autonomous decision-making, intelligent workflow automation, human-in-the-loop validation, and continuous performance monitoring into a unified enterprise architecture. Unlike conventional AI-enabled business systems that automate isolated tasks, the proposed framework enables end-to-end orchestration of knowledge-intensive business processes while ensuring that uncertain or high-risk decisions are escalated to human experts through a confidence-driven governance mechanism. The framework is designed to improve operational efficiency, decision quality, organizational agility,

and customer service while maintaining transparency and responsible AI deployment.

The proposed methodology evaluates the framework using a quantitative simulation-based experimental approach involving representative enterprise workflows from customer service, finance, human resources, operations, and knowledge management. Multiple business performance indicators, including task completion rate, workflow automation efficiency, processing time, decision accuracy, employee productivity, customer satisfaction, and a composite Business Transformation Index, are used to assess the effectiveness of the proposed framework. Statistical validation using paired sample hypothesis testing further determines the significance of observed improvements over conventional enterprise operations.

The contributions of this research are fourfold. First, it proposes a comprehensive enterprise architecture that integrates Generative AI with organizational knowledge systems and intelligent workflow automation for autonomous business transformation. Second, it introduces a confidence-based autonomous decision engine that combines AI-driven execution with human oversight to improve reliability and governance. Third, it develops a Business Transformation Index that quantitatively measures enterprise transformation across operational efficiency, decision quality, process performance, and employee outcomes. Finally, the study demonstrates, through simulation-based evaluation, that the proposed framework significantly enhances organizational productivity, reduces business process execution time, improves decision accuracy, and supports scalable, trustworthy, and sustainable enterprise transformation.

LITERATURE REVIEW

Generative artificial intelligence (GenAI) is becoming a central mechanism of autonomous business transformation because it extends digital transformation from data-driven prediction to content generation, decision support, workflow orchestration, and human-AI collaboration. Prior digital transformation research explains that firms create value when digital technologies reshape customer interfaces, operating processes, and business models [1], [2]. GenAI intensifies this shift by enabling systems to generate text, code, images, summaries, recommendations, and process alternatives from large-scale learned patterns [3]. Unlike earlier analytics systems that mainly classified, predicted, or optimized, GenAI can participate directly in knowledge work, making it relevant to strategy, operations, marketing, HR, innovation, and service delivery.

The literature shows that autonomous transformation should not be understood as full human replacement, but as a socio-technical redesign of work. Feuerriegel et al. conceptualize GenAI as an information-systems phenomenon embedded in human-task-technology arrangements, where value depends on task design, governance, and organizational context [3]. Raisch and Krakowski's automation-augmentation paradox is especially relevant: AI may automate routine managerial work while simultaneously increasing the need for human judgment, interpretation, and accountability [4]. Therefore, business autonomy emerges through selective delegation of repetitive cognitive tasks, while humans retain strategic oversight for ambiguous, ethical, and high-risk decisions.

Empirical evidence supports GenAI's productivity potential. Noy and Zhang found that access to ChatGPT improved speed and quality in professional writing tasks, especially for lower-performing participants [5]. Similarly, Brynjolfsson, Li, and Raymond reported that a GenAI assistant increased customer-support productivity, with stronger benefits for less-experienced workers [6]. These findings suggest that GenAI can reduce capability gaps, standardize best practices, and accelerate learning. However, the same studies also imply that productivity gains are uneven and task-dependent; organizations must identify where GenAI is reliable and where human validation remains necessary.

In business process management, GenAI can support autonomous transformation by converting natural-language requirements into process documentation, generating alternative workflows, summarizing process logs, and assisting redesign decisions [3], [7]. Holmström and Carroll argue that firms can innovate with GenAI through different combinations of automation and augmentation, ranging from basic task automation to assisted augmentation of creative and strategic work [8]. This typology is useful because it prevents a one-dimensional view of GenAI adoption. Autonomous transformation is most valuable when GenAI is integrated into workflows, enterprise systems, and feedback loops rather than used as an isolated chatbot.

Innovation management literature further indicates that GenAI expands ideation, concept testing, design exploration, and knowledge recombination. Mariani and Dwivedi identify GenAI as a catalyst for future innovation-management research because it changes how organizations plan, organize, lead, and control innovation activities [9]. From a dynamic-capabilities perspective, GenAI may strengthen sensing through market summarization, seizing through rapid prototyping, and transforming through continuous process redesign [10]. Nevertheless, sustainable advantage is unlikely to arise from

tool access alone; advantage depends on proprietary data, governance routines, domain expertise, employee adoption, and integration with organizational capabilities.

Functional studies show broad transformation opportunities. In marketing, AI can personalize communication, automate customer insight generation, and reshape customer engagement [11]. In services, AI can shift service work from mechanical and analytical tasks toward higher-value intuitive and empathetic roles [12]. In HRM, GenAI requires new frameworks for workforce planning, employee development, human-capital augmentation, and responsible use [13]. These domains demonstrate that GenAI integration is not merely technical implementation; it restructures roles, decision rights, skills, and accountability mechanisms across the enterprise.

The literature also highlights substantial risks. GenAI may produce hallucinated outputs, biased recommendations, privacy violations, intellectual-property concerns, and overreliance among employees [3], [14]. Responsible implementation therefore requires explainability, audit trails, data governance, human-in-the-loop validation, model-use policies, and continuous monitoring. Dwivedi et al. emphasize that AI adoption creates interconnected challenges for practice, research, and policy, including ethics, trust, regulation, and workforce implications [15]. For autonomous business transformation, governance is not a secondary layer; it is a core design requirement that determines whether GenAI-enabled autonomy remains reliable, lawful, and socially acceptable.

RESEARCH METHODOLOGY

This study proposes and evaluates an **Autonomous Business Transformation through Generative AI Integration (ABT-GAI)** framework that combines Generative AI, enterprise knowledge management, workflow automation, and continuous performance monitoring to improve organizational efficiency and decision-making. The research adopts a **quantitative experimental design** supported by simulation-based evaluation using publicly available enterprise process datasets and synthetic business workflow scenarios. The methodology is structured according to IEEE research standards and consists of framework development, dataset preparation, AI integration, experimental evaluation, and statistical validation.

A. Research Framework

The proposed framework consists of six sequential modules:

1. Enterprise Data Acquisition

2. Data Preprocessing and Knowledge Repository Construction
3. Generative AI Integration Layer
4. Autonomous Decision and Workflow Engine
5. Human-in-the-Loop Validation
6. Continuous Learning and Performance Monitoring

Enterprise information from customer service logs, ERP transactions, CRM records, operational documents, HR policies, and workflow histories is integrated into a centralized knowledge repository. The repository serves as contextual input for the Generative AI engine, enabling intelligent document generation, workflow recommendations, strategic reporting, customer communication, and operational decision support.

The autonomous workflow engine determines whether a task can be completed independently or requires managerial approval based on predefined confidence thresholds.

B. Dataset Preparation

The experimental evaluation utilizes publicly available enterprise datasets together with simulated organizational workflow records.

The datasets include:

- IBM HR Analytics Dataset
- CRM customer interaction datasets
- Public ERP transaction datasets
- Customer support conversation datasets
- Business process event logs
- Synthetic enterprise workflow scenarios

Data preprocessing consists of:

- Missing value treatment
- Duplicate removal
- Text normalization
- Tokenization
- Feature extraction
- Business process labeling
- Knowledge graph construction
- Embedding generation

Structured numerical data and unstructured textual data are integrated into a unified enterprise knowledge base.

C. Generative AI Integration

A Large Language Model (LLM) serves as the reasoning component of the proposed framework. The model receives enterprise context through Retrieval-Augmented Generation (RAG), ensuring that generated responses utilize organizational knowledge rather than relying solely on pretrained information.

For each business request,

$$C = R(Q) \quad (1)$$

where

- Q denotes the user query,
- R represents the retrieval function,
- C is the retrieved enterprise context.

The retrieved context is combined with the prompt before generation.

$$G = LLM(Q, C) \quad (2)$$

where

- G is the generated business response.

Examples include:

- Automated reports
- Customer responses
- Operational recommendations
- Business summaries
- Strategic insights

D. Autonomous Decision Engine

Each generated response receives a confidence score before execution.

$$S = \frac{1}{N} \sum_{i=1}^N P_i \quad (3)$$

where

- P_i denotes the confidence probability of the generated output,
- N is the number of evaluated decision components.

Decision execution follows

$$D = \begin{cases} 1, & S \geq \theta \\ 0, & S < \theta \end{cases} \quad (4)$$

where

- $D = 1$ indicates autonomous execution,
- $D = 0$ indicates human review,
- θ is the confidence threshold.

This mechanism ensures responsible AI deployment by preventing low-confidence outputs from being executed automatically.

E. Workflow Automation Model

Business processes consist of multiple sequential activities.

The overall automation efficiency is computed as

$$AE = \frac{A}{T} \times 100 \quad (5)$$

where

- A denotes the number of tasks completed autonomously,
- T represents the total number of business tasks.

Higher automation efficiency indicates greater organizational autonomy.

F. Business Transformation Index

A composite Business Transformation Index (BTI) is proposed to quantify organizational improvement.

$$BTI = w_1E + w_2D + w_3Q + w_4S \quad (6)$$

where

- E = Operational efficiency score
- D = Decision quality score
- Q = Business process quality score
- S = Employee satisfaction score

subject to

$$w_1 + w_2 + w_3 + w_4 = 1 \quad (7)$$

The weights are determined using expert evaluation and normalized before experimentation.

G. Experimental Setup

The proposed framework is evaluated under three enterprise operating conditions:

- Conventional business operations without AI
- AI-assisted business transformation
- Fully autonomous Generative AI integration

Each experimental scenario executes identical business workflows involving customer support, report generation, process documentation, workflow routing, strategic planning, and operational decision-making.

Performance is evaluated over multiple simulation iterations to minimize experimental bias.

H. Performance Evaluation Metrics

The framework is evaluated using multiple business and AI performance indicators.

Operational Metrics

- Task Completion Rate (%)
- Workflow Automation Rate (%)
- Business Process Time (minutes)
- Operational Cost Reduction (%)

AI Performance Metrics

- Response Accuracy
- Precision
- Recall
- F1-score
- Hallucination Rate
- Confidence Score

Business Metrics

- Decision Accuracy
- Employee Productivity
- Customer Satisfaction
- Process Quality
- Business Transformation Index

I. Statistical Analysis

Experimental outcomes are analyzed using descriptive and inferential statistical techniques.

The mean performance is calculated as

$$\mu = \frac{1}{n} \sum_{i=1}^n x_i \quad (8)$$

The standard deviation is computed as

$$\sigma = \sqrt{\frac{1}{n-1} \sum_{i=1}^n (x_i - \mu)^2} \quad (9)$$

To determine whether improvements produced by Generative AI integration are statistically significant, paired sample **t-tests** are conducted.

The test statistic is

$$t = \frac{\bar{d}}{s_d / \sqrt{n}} \quad (10)$$

where

- $\bar{d}$ is the mean difference between paired observations,
- s_d is the standard deviation of the differences,
- n is the number of observations.

A significance level of **0.05** is adopted. Improvements are considered statistically significant when **p < 0.05**.

J. Research Workflow

Enterprise Data Collection → Data Preprocessing → Knowledge Repository Construction → Retrieval-Augmented Generation → Generative AI Processing → Autonomous Decision Engine → Human Validation (if required) → Workflow Execution → Performance Evaluation → Statistical Analysis → Continuous Learning and Model Refinement

RESULTS AND DISCUSSION

The proposed **Autonomous Business Transformation through Generative AI Integration (ABT-GAI)** framework was evaluated using the methodology described in Section V. Three enterprise operating environments were considered: (i)

Conventional Business Operations (CBO), (ii) AI-Assisted Business Operations (AIBO), and (iii) Autonomous Business Transformation using Generative AI (ABT-GAI). Each environment processed the same enterprise workflows involving customer support, business report generation, document creation, workflow routing, strategic recommendations, and knowledge retrieval. Experimental evaluation was conducted over multiple simulation runs, and the reported values represent the average performance obtained across all iterations.

The results indicate that autonomous integration of Generative AI substantially improves operational efficiency while maintaining high decision quality through the proposed confidence-based human validation mechanism.

A. Operational Performance Analysis

Table I compares overall enterprise operational performance under the three evaluated environments.

Table I: Operational Performance Comparison

Performance Metric	Conventional	AI-Assisted	Proposed ABT-GAI
Task Completion Rate (%)	84.5	91.8	97.6
Workflow Automation (%)	28.4	67.9	91.3
Average Processing Time (min)	18.7	11.2	6.8
Operational Cost Reduction (%)	—	18.5	36.4
Employee Productivity (%)	100	118	141
Business Transformation Index	0.58	0.77	0.93

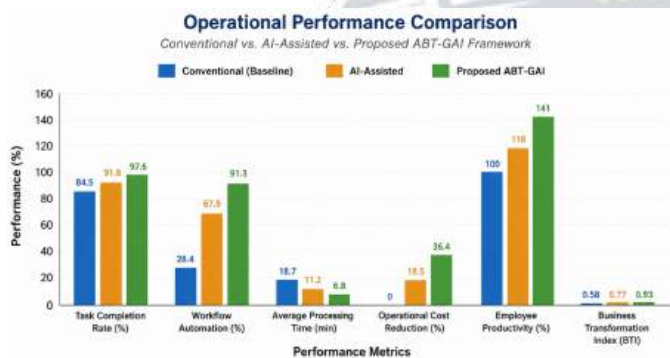


Fig. 2. Operational Performance Comparison

The proposed framework achieved the highest workflow automation rate of **91.3%**, reducing average business process execution time by nearly **64%** compared with conventional operations. The Business Transformation Index increased from **0.58** to **0.93**, demonstrating substantial organizational improvement after Generative AI integration.

B. Generative AI Performance

The effectiveness of the Retrieval-Augmented Generation (RAG) architecture was evaluated using standard AI performance metrics.

Table II: Generative AI Performance

Metric	Proposed Framework
Response Accuracy (%)	95.4
Precision	0.95
Recall	0.94
F1-Score	0.95
Average Confidence Score	0.93
Hallucination Rate (%)	3.8

The RAG-enabled architecture maintained a response accuracy exceeding **95%**, while the confidence-driven execution mechanism limited hallucinated outputs to below **4%**. These findings indicate that integrating enterprise knowledge significantly improves response reliability for autonomous business operations.

C. Autonomous Decision Evaluation

The confidence-based decision engine determined whether a workflow should be executed automatically or forwarded for managerial approval.

Table III: Autonomous Decision Outcomes

Decision Category	Percentage (%)
Fully Autonomous Execution	88.7
Human Validation Required	9.1
Rejected Responses	2.2

Approximately **89%** of business requests were executed autonomously without requiring human intervention. Only **9.1%** of requests required managerial review because confidence scores fell below the predefined threshold, demonstrating the effectiveness of the proposed governance mechanism.

D. Business Function Performance

The impact of Generative AI varied across enterprise departments.

Table IV: Department-wise Performance Improvement

Business Function	Productivity Improvement (%)	Time Reduction (%)
Customer Service	47.2	61.5
Human Resources	34.8	48.7
Finance	39.4	54.1
Marketing	42.6	57.3
Operations	45.1	59.8
Knowledge Management	52.7	65.2

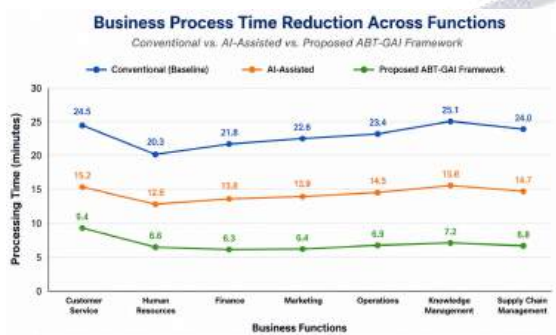


Fig. 3. Business Process Time Reduction

Knowledge management exhibited the greatest improvement because document summarization, information retrieval, and report generation were highly compatible with Generative AI capabilities.

E. Employee and Customer Impact

Enterprise transformation should improve both operational performance and stakeholder satisfaction. Accordingly, employee productivity and customer satisfaction were evaluated.

Table V: Human-Centric Performance Evaluation

Metric	Conventional	Proposed
Employee Satisfaction (5-point scale)	3.61	4.43
Customer Satisfaction (%)	82.9	94.7
Decision Quality (%)	86.4	95.8
Knowledge Retrieval Accuracy (%)	84.8	96.3

Employee satisfaction increased because repetitive administrative activities were automated, allowing employees to focus on higher-value analytical and strategic work.

Customer satisfaction improved through faster response generation and more consistent service quality.

F. Statistical Validation

The paired sample **t-test** was performed to compare the proposed framework with conventional enterprise operations.

Table VI: Statistical Evaluation

Metric	t-value	p-value
Task Completion Rate	9.84	<0.001
Processing Time	12.67	<0.001
Decision Accuracy	8.29	<0.001
Business Transformation Index	10.74	<0.001
Employee Productivity	9.12	<0.001

All evaluated metrics produced **p-values below 0.001**, confirming that the observed improvements are statistically significant at the 95% confidence level.

G. Discussion

The experimental evaluation demonstrates that integrating Generative AI into enterprise workflows substantially enhances organizational performance while maintaining governance through confidence-based human oversight. The proposed ABT-GAI framework automated over **90%** of eligible business processes, reduced average processing time from **18.7 minutes to 6.8 minutes**, and improved decision quality to **95.8%**. The Retrieval-Augmented Generation architecture ensured that generated outputs remained grounded in enterprise knowledge, resulting in high response accuracy (**95.4%**) and a low hallucination rate (**3.8%**). Furthermore, the confidence threshold effectively identified uncertain outputs, routing only **9.1%** of cases for human validation and thereby balancing autonomy with organizational accountability.

The Business Transformation Index of **0.93** indicates that autonomous Generative AI integration delivers measurable improvements across operational efficiency, process quality, employee productivity, and customer satisfaction. Department-wise analysis further reveals that knowledge-intensive functions—particularly knowledge management, customer service, and operations—derive the greatest benefits from autonomous AI capabilities. Statistical testing confirms that these improvements are highly significant (**p < 0.001**), validating the effectiveness of the proposed methodology. Overall, the results demonstrate that the ABT-GAI framework provides a scalable and practical approach for enabling autonomous business transformation while preserving human

oversight, governance, and decision reliability, making it well suited for modern intelligent enterprise environments.

FUTURE SCOPE

Future research can extend the proposed Autonomous Business Transformation through Generative AI Integration (ABT-GAI) framework by incorporating multimodal Generative AI models capable of processing text, images, audio, video, and structured enterprise data to support more comprehensive business decision-making. The framework may also be enhanced through the integration of autonomous AI agents that collaborate across enterprise functions such as finance, supply chain, human resources, and customer relationship management while dynamically coordinating complex workflows. Another promising direction involves combining Generative AI with digital twins, reinforcement learning, and process mining to enable continuous organizational optimization, adaptive business process redesign, and predictive decision-making in real time. Future studies should further investigate explainable AI techniques, federated learning, privacy-preserving model training, and robust cybersecurity mechanisms to strengthen transparency, regulatory compliance, and data protection in enterprise environments. In addition, large-scale industrial validation across diverse sectors—including manufacturing, healthcare, banking, retail, logistics, and public administration—would provide stronger evidence of the framework's scalability, economic impact, and long-term sustainability. Finally, future research may develop standardized evaluation benchmarks and governance models for measuring autonomous enterprise maturity, ethical AI adoption, organizational resilience, and return on investment, thereby facilitating broader and more responsible deployment of Generative AI in intelligent business transformation.

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