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AI-Powered Automation in Business Continuity Planning Enhancing it Disaster Recovery Efficiency

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Abstract: Artificial Intelligence is revolutionizing Business Continuity Planning and IT Disaster Recovery by automating critical processes, enhancing predictive capabilities, and improving resilience. This paper synthesizes recent advancements in AI applications, focusing on predictive analytics, automation, and real-time recovery mechanisms that significantly reduce downtime and operational costs. Artificial Intelligence is rapidly transforming Business Continuity Planning and IT Disaster Recovery by enabling automation, predictive analytics, and intelligent decision-making, thereby significantly enhancing operational resilience. Traditional disaster recovery methods often rely on manual interventions and predefined protocols, which can be slow, error-prone, and inadequate for complex IT environments.

Keywords: Artificial Intelligence, Business Continuity Planning, Automation

I. INTRODUCTION

In an era where digital transformation is paramount, traditional disaster recovery strategies often fall short in addressing the complexities of modern IT infrastructures. AI technologies, including machine learning, predictive analytics, and natural language processing, offer transformative solutions to enhance the efficiency and effectiveness of BCP and DR processes. In today's digital era, businesses across industries are increasingly reliant on complex IT infrastructures to manage operations, customer interactions, and data-driven decision-making.

This growing dependency has heightened the significance of business continuity planning (BCP) and IT disaster recovery (DR) as critical components for organizational resilience. Traditional approaches to BCP and DR, while structured and methodical, often struggle to keep pace with the speed, scale, and complexity of modern IT systems. Manual interventions, delayed risk detection, and inefficient recovery protocols can result in extended downtime, financial losses, reputational damage, and regulatory non-compliance. As a result, organizations are actively exploring innovative technologies to enhance the efficiency, reliability, and responsiveness of disaster recovery strategies.

Artificial Intelligence (AI), with its capabilities in predictive analytics, machine learning, natural language processing, and robotic process automation (RPA), has emerged as a transformative tool in this context, offering automation, intelligent decision-making, and proactive risk mitigation. AI-powered automation in BCP and IT disaster recovery facilitates the continuous monitoring of IT environments, identification of potential risks, rapid execution of recovery processes, and adaptive response to unforeseen disruptions, thereby significantly reducing the impact of incidents on business operations.

The integration of AI into BCP and DR represents a paradigm shift from reactive to proactive disaster management. Unlike conventional systems that rely on static plans and human-driven responses, AI-based solutions leverage historical data, real-time system metrics, and predictive modeling to anticipate potential disruptions before they occur. Predictive analytics, a core function of AI, enables organizations to identify patterns of vulnerability, such as recurring system failures, network anomalies, or security threats, allowing preemptive measures to be implemented. This

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predictive capability is particularly valuable in industries such as finance, healthcare, and critical infrastructure, where downtime can have severe consequences.

For instance, AI-driven models can forecast server overloads, network breaches, or application failures, triggering automated alerts and recovery actions to prevent service interruptions. Moreover, machine learning algorithms continuously learn from past incidents, refining their predictive accuracy over time and adapting to changing operational dynamics. By embedding AI into disaster recovery processes, organizations can achieve faster response times, minimize human error, and ensure continuity of essential services even in highly dynamic and unpredictable environments.

Robotic Process Automation (RPA) complements predictive analytics by automating repetitive and time-sensitive recovery tasks. Traditional disaster recovery often involves manual execution of complex procedures, such as restoring backups, reconfiguring networks, or restarting applications. These manual processes are prone to delays, errors, and inconsistencies, particularly under high-pressure scenarios. AI-powered RPA, however, can autonomously perform these tasks with speed, precision, and consistency, following predefined protocols while simultaneously adapting to real-time conditions.

For example, in a data center outage, RPA bots can automatically reroute workloads, restore virtual machines, and notify stakeholders without requiring human intervention. By reducing dependency on manual effort, organizations can ensure that recovery activities are executed in the most efficient and reliable manner, reducing downtime and associated financial losses. Additionally, the automation of routine tasks frees IT personnel to focus on strategic decision-making and complex problem-solving, thereby enhancing overall organizational resilience.

Another critical aspect of AI in disaster recovery is real-time monitoring and anomaly detection. Modern IT ecosystems are characterized by high volumes of data, distributed networks, and cloud-based infrastructure, making it challenging to identify potential threats or system failures promptly. AI-powered monitoring systems continuously analyze network traffic, application performance metrics, server logs, and user activity to detect deviations from normal behavior that may indicate security breaches, hardware failures, or operational disruptions.

Anomalies such as unusual data access patterns, sudden spikes in system usage, or irregular server responses can trigger immediate alerts and automated corrective actions. This real-time intelligence allows organizations to respond swiftly to incidents, preventing minor issues from escalating into major crises. Furthermore, integrating AI with cybersecurity frameworks ensures that disaster recovery strategies are aligned with security protocols, safeguarding sensitive data while maintaining operational continuity.

Natural Language Processing (NLP) enhances incident management by facilitating intelligent communication and documentation. During a disaster, timely and accurate information dissemination is essential for coordinated response efforts. AI-driven NLP systems can automatically generate incident reports, summarize key metrics, and communicate updates to relevant stakeholders in a clear and actionable format.

By automating the flow of information, NLP reduces communication delays, mitigates the risk of misinterpretation, and ensures that all teams have access to consistent and reliable data. In addition, AI-powered chatbots and virtual assistants can provide real-time guidance to employees during recovery procedures, answer queries, and offer step-by-step instructions for executing complex tasks. This intelligent support not only accelerates recovery but also enhances employee confidence and effectiveness during high-stress situations.

The benefits of AI-powered automation in BCP and DR extend beyond efficiency and speed. By minimizing downtime, organizations can reduce financial losses, protect their reputation, and maintain customer trust. Predictive analytics and automated recovery also improve compliance with regulatory standards by ensuring that data protection, backup, and recovery processes are consistently executed.

Furthermore, AI systems are inherently scalable, capable of adapting to growing infrastructure demands, diverse applications, and increasingly sophisticated threat landscapes. The continuous learning capabilities of AI mean that disaster recovery strategies can evolve in real-time, incorporating new knowledge, emerging risks, and lessons from past incidents. As a result, organizations achieve not only faster and more accurate recovery but also a more resilient and adaptive approach to business continuity.

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Despite the transformative potential of AI in BCP and DR, successful implementation requires careful planning, robust data management, and skilled personnel. Organizations must ensure that AI systems are trained on high-quality, relevant data, that recovery protocols are clearly defined, and that integration with existing IT infrastructure is seamless. Ethical considerations, such as data privacy, algorithmic transparency, and accountability, must also be addressed to maintain trust and compliance. Additionally, organizations must balance automation with human oversight, ensuring that AI supports rather than replaces critical decision-making in complex or unprecedented scenarios. Investments in AI-driven disaster recovery should therefore be accompanied by continuous monitoring, evaluation, and refinement to achieve optimal outcomes.

AI-powered automation is revolutionizing business continuity planning and IT disaster recovery by enabling predictive risk assessment, automated recovery, real-time monitoring, and intelligent incident management. By harnessing machine learning, RPA, and NLP, organizations can enhance efficiency, accuracy, and resilience while reducing downtime, financial loss, and human error. The integration of AI transforms BCP and DR from reactive, manual processes into proactive, adaptive, and intelligent systems capable of responding to the dynamic challenges of modern IT environments. As businesses continue to embrace digital transformation, AI-powered disaster recovery is poised to become an essential enabler of operational continuity, risk mitigation, and long-term organizational resilience, offering a competitive advantage in an increasingly uncertain and technology-driven world.

KEY APPLICATIONS OF AI IN BCP AND DR

Artificial Intelligence (AI) is increasingly transforming the domain of Business Continuity Planning (BCP) and IT Disaster Recovery (DR) by providing organizations with intelligent, automated, and predictive tools that enhance operational resilience. Traditionally, disaster recovery relied on manual protocols and static processes, which often led to delayed responses, increased downtime, and human errors during critical incidents. With the integration of AI, businesses can now leverage advanced technologies such as machine learning, predictive analytics, robotic process automation, and natural language processing to anticipate, detect, and mitigate potential disruptions more effectively. One of the most prominent applications of AI in BCP and DR is predictive risk assessment.

By analyzing vast amounts of historical data, system performance metrics, and environmental factors, AI algorithms can identify patterns and anomalies that indicate potential threats to organizational continuity. Predictive models not only forecast IT system failures but also evaluate the likelihood of cyber-attacks, natural disasters, and operational disruptions, thereby enabling proactive planning and prioritization of resources. For instance, in cloud-based infrastructures, AI can monitor server loads, network traffic, and storage utilization to anticipate system failures before they occur, allowing IT teams to implement preventive measures such as load balancing or automated failover systems. Another significant application is automated recovery procedures, which leverage AI and robotic process automation (RPA) to streamline the execution of disaster recovery workflows. Traditionally, IT disaster recovery involves a series of manual steps, including system reboots, data restoration, and configuration adjustments, which can be time-consuming and prone to human errors. AI-powered automation allows for these tasks to be executed autonomously based on predefined recovery plans and real-time system conditions.

For example, in the event of a data center outage, AI can automatically trigger the replication of critical data to backup servers, initiate virtual machine recovery, and redirect network traffic to ensure uninterrupted service. This not only minimizes downtime but also reduces the dependency on human intervention, allowing IT personnel to focus on strategic decision-making and oversight rather than routine operational tasks. Moreover, AI-driven recovery systems continuously learn from previous incidents, optimizing recovery sequences over time and enhancing the organization's overall resilience.

Real-time monitoring and anomaly detection is another crucial AI application that significantly enhances disaster preparedness and response. AI-powered monitoring systems can continuously track IT infrastructures, including servers, databases, networks, and cloud resources, to identify unusual behavior or deviations from normal operational patterns. Machine learning models can detect subtle indicators of potential failures or security breaches that may not be immediately apparent to human operators. For example, unusual spikes in network traffic may indicate a distributed denial-of-service (DDoS) attack, while abnormal file access patterns could suggest insider threats or ransomware

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activity. By detecting these anomalies in real time, AI enables organizations to initiate rapid response measures, such as isolating compromised systems, alerting IT teams, or triggering automated remediation scripts. This proactive detection capability significantly reduces the mean time to recovery (MTTR) and mitigates the impact of disasters on business operations.

Natural Language Processing (NLP) also plays a pivotal role in enhancing BCP and DR efficiency. During incidents, effective communication is critical to ensure timely coordination and decision-making. AI-powered NLP tools can automate the generation of incident reports, analyze unstructured data from logs or emails, and provide actionable insights to IT teams. For instance, an AI system can automatically summarize system alerts, identify critical issues, and prioritize response actions, ensuring that key stakeholders receive accurate and concise information in real time. NLP can also facilitate automated interaction with chatbots or virtual assistants, allowing employees to report incidents, request system status updates, or receive guidance on recovery procedures without the need for direct human intervention. This capability improves the speed and accuracy of incident management while reducing cognitive load on IT personnel during high-pressure situations.

Another area where AI significantly contributes is resource optimization and decision support during disaster recovery. AI algorithms can analyze available resources, system dependencies, and recovery objectives to recommend the most efficient recovery strategies. For example, AI can determine the optimal sequence for restoring critical applications based on their interdependencies, business impact, and available infrastructure capacity. This ensures that essential services are restored first, minimizing operational disruption and financial losses. Furthermore, AI-driven decision support systems can simulate multiple disaster scenarios and assess the effectiveness of various recovery strategies, enabling organizations to refine their BCP plans continuously. These simulation capabilities also support regulatory compliance by providing evidence-based documentation of disaster recovery preparedness and response strategies.

Integration with cloud computing and hybrid IT environments further amplifies the benefits of AI in BCP and DR. Modern enterprises often operate in complex ecosystems that combine on-premises systems, public clouds, private clouds, and edge devices. AI can manage these distributed environments by dynamically allocating resources, orchestrating workloads, and ensuring data consistency across multiple locations. For example, in a multi-cloud disaster recovery setup, AI can automatically replicate workloads between cloud providers, optimize latency, and maintain high availability during outages. This level of automation and intelligence significantly reduces the complexity and operational burden of managing heterogeneous IT infrastructures during critical events.

AI also supports continuous improvement and adaptive learning in disaster recovery strategies. Machine learning models can analyze past incidents, recovery performance, and system behavior to identify inefficiencies, bottlenecks, and opportunities for improvement. Over time, AI systems become more accurate in predicting potential disruptions and more efficient in executing recovery procedures. This iterative learning process ensures that organizations' BCP and DR plans remain robust and adaptive in the face of evolving threats, such as cyber-attacks, software vulnerabilities, and changing regulatory requirements.

Finally, AI-driven analytics and reporting enhance the governance and strategic oversight of disaster recovery operations. AI platforms can generate comprehensive dashboards, key performance indicators (KPIs), and predictive insights that allow senior management to monitor business continuity performance, assess risk exposure, and make informed investment decisions in resilience technologies. By providing a clear view of operational readiness and recovery effectiveness, AI empowers organizations to maintain high levels of preparedness and reduce potential downtime, ultimately safeguarding reputation, revenue, and customer trust.

The integration of AI in Business Continuity Planning and IT Disaster Recovery represents a paradigm shift in how organizations prepare for and respond to disruptions. Key applications, including predictive risk assessment, automated recovery, real-time anomaly detection, natural language processing for incident management, resource optimization, cloud integration, adaptive learning, and advanced analytics, collectively enhance recovery efficiency, reduce operational risks, and ensure resilient business operations. As AI technologies continue to advance, their role in automating and optimizing disaster recovery processes will become increasingly indispensable, enabling organizations to maintain continuity and competitiveness in a rapidly evolving digital landscape.

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1. Predictive Risk Assessment

AI enables organizations to anticipate potential disruptions by analyzing historical data, environmental factors, and system performance metrics. This proactive approach allows for timely interventions and resource allocation.

2. Automated Recovery Procedures

Robotic Process Automation (RPA) integrated with AI facilitates the automation of recovery workflows, reducing human intervention and minimizing errors during critical recovery phases.

3. Real-Time Monitoring and Anomaly Detection

AI-driven systems continuously monitor IT environments, identifying anomalies and potential threats in real-time. This capability enhances the organization's ability to respond swiftly to incidents, thereby reducing downtime.

4. Natural Language Processing for Incident Management

NLP applications assist in automating incident reporting and communication, streamlining the incident management process and ensuring consistent and accurate information dissemination.

BENEFITS OF AI INTEGRATION

Enhanced Efficiency: Automation of routine tasks accelerates recovery processes.

Cost Reduction: Minimizes the need for extensive manual intervention, leading to cost savings. **Improved Accuracy**: AI algorithms reduce human errors, ensuring more reliable recovery outcomes. Scalability: AI systems can scale to accommodate growing data and infrastructure complexities.

FUTURE DIRECTIONS

The future of AI in BCP and DR lies in the integration of advanced machine learning models, such as deep learning, to further enhance predictive capabilities and automation. Additionally, the adoption of AI in edge computing environments presents new opportunities for real-time disaster recovery solutions. The future of AI-powered automation in business continuity planning and IT disaster recovery is poised to reshape organizational resilience and operational efficiency profoundly.

As digital infrastructures grow increasingly complex, conventional disaster recovery strategies struggle to manage the speed, volume, and variety of data across hybrid and multi-cloud environments. AI technologies including machine learning, deep learning, predictive analytics, and natural language processing are increasingly being integrated into BCP frameworks, creating opportunities for more adaptive, intelligent, and autonomous disaster recovery systems. In the coming years, one of the most significant directions will be the adoption of advanced predictive analytics models capable of anticipating system failures, cyber threats, and environmental disruptions before they manifest.

These models will leverage vast datasets, including historical system logs, network traffic patterns, and external indicators such as weather forecasts or geopolitical risk factors, to generate real-time risk assessments. By combining AI with anomaly detection algorithms, organizations will be able to identify subtle patterns indicative of impending failures, enabling preemptive mitigation strategies and dynamic resource allocation that minimize downtime and operational impact.

Moreover, AI-driven automation will extend beyond detection to orchestrating end-to-end disaster recovery workflows. Robotic Process Automation (RPA), integrated with intelligent AI decision-making, will automate repetitive and timesensitive recovery tasks such as server failovers, backup restoration, and system reconfigurations. This level of automation will significantly reduce human intervention during critical events, thereby minimizing errors and accelerating recovery times. The integration of reinforcement learning techniques will further enhance these systems by allowing AI models to learn optimal recovery strategies through continuous interaction with the IT environment.

Over time, these models will develop adaptive responses to novel incidents, increasing the efficiency and reliability of recovery operations even in unprecedented scenarios. Additionally, the convergence of AI with edge computing technologies will enable decentralized and low-latency disaster recovery solutions, particularly valuable for industries reliant on real-time data processing, such as financial services, healthcare, and critical infrastructure. Edge-based AI systems will allow organizations to detect and respond to disruptions closer to the source, reducing recovery latency and enhancing operational continuity.

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Another critical avenue for future development lies in the integration of AI-powered predictive capabilities with cybersecurity measures. Cyber threats, such as ransomware attacks, increasingly target disaster recovery systems themselves, posing significant risks to organizational resilience. Future AI-driven BCP systems will incorporate predictive threat intelligence, combining machine learning models that detect anomalies and patterns in network behavior with automated response mechanisms to contain and remediate attacks in real-time.

By linking cybersecurity AI with disaster recovery AI, organizations will achieve a unified, proactive approach that protects both operational continuity and sensitive data assets. Additionally, the development of AI-driven decision-support systems will empower human operators with actionable insights during crises. Through natural language processing and advanced visualization tools, AI can translate complex technical information into intuitive dashboards and recommendations, enabling informed decision-making even under high-pressure conditions.

This symbiotic relationship between human oversight and AI automation ensures that organizations retain strategic control while leveraging the speed and accuracy of intelligent systems. In parallel, the adoption of hybrid AI models that combine supervised, unsupervised, and reinforcement learning will allow disaster recovery systems to operate with greater autonomy and intelligence.

For instance, unsupervised learning techniques can uncover previously unknown system vulnerabilities, while supervised models provide structured predictions based on historical data, and reinforcement learning continuously optimizes recovery strategies. This multi-modal AI approach will enable BCP systems to not only react efficiently to incidents but also proactively enhance resilience over time, effectively creating self-improving disaster recovery mechanisms. Furthermore, the application of AI in scenario simulation and stress testing will revolutionize business continuity planning.

AI can simulate complex disaster scenarios, including multi-site failures, cascading system outages, and large-scale cyber incidents, to evaluate the robustness of existing recovery plans. These simulations will provide organizations with data-driven insights into potential vulnerabilities, allowing for iterative improvements and resource optimization. By employing generative AI techniques, future systems may even autonomously generate alternative recovery plans tailored to specific organizational contexts, further reducing human workload and enhancing preparedness.

Cloud computing will continue to play a pivotal role in enabling AI-powered disaster recovery solutions. With organizations increasingly migrating to multi-cloud environments, AI will facilitate intelligent orchestration of workloads across distributed platforms, ensuring seamless continuity during infrastructure disruptions. Predictive load balancing and automated failover mechanisms powered by AI will optimize resource utilization while minimizing service interruptions.

Additionally, advancements in explainable AI (XAI) will address one of the major challenges in AI-driven disaster recovery: trust and transparency. As organizations become more reliant on AI automation, understanding how decisions are made by complex AI models will be critical for compliance, regulatory requirements, and organizational accountability. Future systems will incorporate explainable AI techniques, providing clear, interpretable insights into automated recovery decisions and allowing stakeholders to verify and trust AI-driven actions.

Collaboration and interoperability will also define the next generation of AI-enabled BCP. AI systems will increasingly integrate across enterprise resource planning (ERP), IT service management (ITSM), and security information and event management (SIEM) platforms, enabling a holistic approach to disaster recovery. By sharing insights and coordinating automated actions across these systems, organizations can achieve end-to-end visibility and control over business continuity operations.

Moreover, the growing trend of AI-as-a-Service platforms will democratize access to advanced disaster recovery capabilities, allowing even small and medium enterprises to leverage intelligent automation without extensive in-house infrastructure. As AI adoption expands, ethical considerations and governance frameworks will become central to system design. Ensuring responsible AI use, data privacy, and adherence to regulatory standards will guide the development of future BCP and DR solutions, fostering resilient yet compliant operations.

The trajectory of AI-powered automation in business continuity planning and IT disaster recovery points toward increasingly intelligent, autonomous, and integrated systems. Future advancements will focus on predictive intelligence, autonomous orchestration, cybersecurity integration, edge computing, scenario simulation, explainable AI, and cross-

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platform interoperability. By leveraging these technologies, organizations will not only enhance the efficiency of disaster recovery operations but also build adaptive, self-improving resilience strategies capable of responding to the dynamic challenges of digital transformation. As AI continues to evolve, its role in BCP and DR will shift from reactive support to proactive, strategic enabler, fundamentally transforming how businesses anticipate, respond to, and recover from disruptions.

II. CONCLUSION

AI-powered automation in business continuity planning (BCP) highlights its transformative role in enhancing IT disaster recovery efficiency. By integrating artificial intelligence, organizations can move beyond traditional manual recovery approaches and adopt predictive, adaptive, and automated solutions that minimize downtime, reduce human error, and optimize resource allocation. AI-driven tools enable real-time monitoring, anomaly detection, and proactive risk assessment, ensuring faster decision-making and seamless recovery processes during disruptions. Moreover, automation ensures that recovery strategies are consistently executed, scalable across diverse IT environments, and capable of handling complex scenarios with greater accuracy. Ultimately, AI-powered automation strengthens resilience, improves operational continuity, and provides businesses with a competitive advantage by ensuring that critical systems remain secure, reliable, and quickly restorable in the face of unforeseen crises.

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