

Unleashing the synergy of generative AI and robotic process automation in financial services

By Mike Willhelm

In an era where digital transformation defines the competitive edge, financial services institutions are increasingly turning to advanced technological solutions to optimize their operations, enhance customer experience, and drive innovation. Among these technologies, generative artificial intelligence (AI) and robotics process automation (RPA) stand out as pivotal tools in reshaping the financial landscape.

When harmonized, generative AI and RPA can facilitate a level of automation that not only streamlines operational efficiencies but also fosters innovation. The synergy of these technologies allows financial institutions to automate complex, judgment-based tasks that were previously thought to require human intuition, thus opening new horizons for automation in financial services.

The essence of judgment-based tasks lies in their requirement for decision-making that traditionally depends on human discretion and expertise. In financial services, this spans a spectrum of activities including credit scoring, fraud detection, and compliance monitoring. For instance, Generative Al can analyze vast datasets, identifying subtle patterns and correlations that inform more accurate credit risk assessments.

"When trying to understand the relationship between AI and RPA, an analogy of the human body may be helpful. Think of RPA as the arms and legs; they can run around, gather information, and move it from point A to point B. But that's about it. Whereas AI can't do any of that, but it can help make sense of any information that the arms and legs (RPA) harvests."

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By deploying generative AI in conjunction with RPA, institutions can automate the entire credit scoring process, from data collection to decision-making. Similarly, in fraud detection, the combination of these technologies enables systems to dynamically learn from transactional data, adapt to emerging fraudulent tactics, and decide autonomously on steps to mitigate risks.

This paradigm shift significantly alters the operational model for financial services institutions. By integrating these advanced technologies, they are not only increasing productivity but also enhancing accuracy and speed in areas requiring nuanced judgment. This is particularly transformative in risk management and compliance, where the volume and complexity of transactions can impact even the most seasoned professionals. The efficiencies realized through such automation can also serve to redistribute human capital to more strategic, highvalue tasks, cementing a culture of innovation and continuous evolution within the financial sector.

Benefits and challenges of adoption

The synthesis of generative AI with RPA marks a pivotal chapter in financial services, signifying a monumental leap toward achieving unparalleled operational excellence, customer engagement, and decisional acumen. However, with innovation comes the responsibility to navigate the complexities of implementation, necessitating a thoughtful approach to integrating these technologies within the existing ecosystem and decision-making process.

Adopting Generative AI and RPA offers several benefits to financial services institutions, including:

- **Operational efficiency.** Automating routine tasks frees up human resources to focus on more strategic and value-added activities, reducing operational costs and boosting productivity.
- Enhanced customer experience. Generative AI can personalize interactions and services, delivering a superior customer experience that drives loyalty and revenue growth.

• Data-driven insights. The combination of RPA and Generative AI can process and analyze vast amounts of data more effectively than traditional methods providing deeper, more actionable insights for better, more impactful decision-making.

Despite these benefits, financial institutions will face challenges in adopting these technologies, including:

- Integration complexities. Seamlessly integrating Generative AI and RPA within existing business processes requires careful planning and execution to avoid disruptions and allow for ample change management.
- **Talent and expertise.** The scarcity of skilled professionals in AI and automation can pose a barrier to successful implementation.
- **Covernance and compliance.** Be mindful that there is a dearth of regulatory standards that have been established in this space.
- **Technology selection.** The genAl/RPA market is so fast-moving, it can be difficult to know where to invest or place strategic bets.

Analytics and data management

The formidable duo of generative AI and RPA not only automates processes but also serves as a cornerstone for sophisticated analytics and data management. Sophisticated analytics powered by generative AI can transform raw data into strategic insights, unveiling opportunities for product and service expansion, customer segmentation, compliance management, or risk mitigation. RPA further ensures the data's integrity by streamlining its flow across various systems to produce analytics based on accurate and timely information.

Moreover, the use of these next-gen analytical capabilities equips firms with actionable insights that identify market shifts, changing customer needs, and other business drivers so that executives can proactively manage the organization and their

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customers. It empowers financial services providers to pave the way for a future where data-driven and customer-centric decision-making is the norm rather than the exception.

Through thoughtful integration and strategic application of Generative AI and RPA in analytics and data management, financial institutions can realize a significant competitive advantage — one that is rooted in the ability to make swift, informed, and accurate decisions, thereby ensuring resilience and adaptability in an ever-evolving market.

Navigating the future

The integration of generative AI and RPA presents an exciting frontier for the financial services sector, promising unparalleled levels of efficiency, innovation, and customer engagement. As we look to the future, it is clear that institutions that embrace these technologies, overcoming the associated challenges through strategic planning and execution, will be well-positioned to lead in the digital financial services landscape.

Leaders in the financial sector must adopt a forward-thinking approach, fostering collaboration between technology and business and investing in talent development to fully realize the investment in the capabilities of the capabilities of generative Al and RPA. By doing so, they will not only optimize their current operations but also pave the way for future innovations that can redefine the industry.

The journey towards integrating Generative AI and RPA into financial services is complex yet immensely rewarding. By adopting these technologies, financial institutions can unlock new possibilities, drive growth, and establish a strong foundation for the digital age.

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