Novatio: Journal of Management Technology and Innovation

E-ISSN: 3030-8674

Volume. 3, Issue 3, July 2025

Page No: 159-169



Predictive Analytics and Strategic Banking Performance: The Critical Impact of Organizational Readiness

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Received : June 1, 2025
Accepted : July 16, 2025
Published : July 31, 2025

Citation: Utomo, B., Wahidah, N, J., Wisudawati, T. (2025). Predictive Analytics and Strategic Banking Performance: The Critical Impact of Organizational Readiness. Novatio: Journal of Management Technology and Innovation, 3(3), 159-169.

ABSTRACT: Predictive analytics (PA) has become a cornerstone of digital transformation in banking, offering tools for improved decision-making across risk, marketing, and operations. This study investigates the moderating role of organizational readinesscomprising infrastructure, talent, and culture—on the relationship between PA adoption and strategic performance in banks. A crosssectional survey of 50 banking institutions was conducted, measuring predictive analytics usage, organizational readiness scores, and key financial performance indicators such as Return on Assets (ROA), Non-Performing Loans (NPL), and cost-to-income ratios. Using hierarchical regression and interaction analysis, findings reveal that while PA adoption positively influences strategic performance, its impact is significantly enhanced in institutions with high organizational readiness. Institutions with stronger infrastructure, better-trained staff, and supportive analytics cultures reported higher returns from analytics initiatives. These results underscore the importance of socio-technical alignment in unlocking the full potential of predictive analytics. Banks are encouraged to view PA not as a standalone technological tool but as part of a broader transformation requiring cultural, structural, and strategic integration.

Keywords: Predictive Analytics, Banking, Organizational Readiness, Strategic Performance, Digital Transformation, Data-Driven Decision-Making, Hierarchical Regression.



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INTRODUCTION

Predictive analytics (PA) has emerged as a transformative tool in banking, reshaping operations and strategy. Its applications span in this sector span a variety of functions, including customer behavior prediction, risk management, fraud detection, and personalized service offerings. Banks utilize predictive models to analyze customer data, enabling them to tailor their products and services effectively, thereby enhancing customer satisfaction and loyalty (Addy et al., 2024; Raji & Ademola, 2024). Additionally, PA plays a crucial role in risk assessment; by analyzing historical data, banks can predict potential defaults and assess creditworthiness more accurately, ultimately reducing financial losses and enhancing the stability of the institution (Rofi'i, 2023).

Utomo, Wahidah, and Wisudawati

Furthermore, predictive analytics influences strategic decision-making in financial services by enabling banks to adopt a proactive approach toward market changes and customer needs. Through insights derived from PA, banks can allocate resources more efficiently, develop targeted marketing strategies, and optimize pricing models (Udeh et al., 2024). The use of predictive models also facilitates more informed decisions about product development and market entry strategies, thus aligning the bank's objectives with evolving market dynamics (Rahman et al., 2021). Consequently, the integration of predictive analytics into strategy formulation has been shown to correlate positively with enhanced performance and profitability in the banking sector (Omotayo et al., 2018).

Despite its benefits, the adoption of predictive analytics in banking institutions comes with several limitations. One notable challenge is the quality and availability of data; inaccurate or incomplete datasets can lead to faulty predictions, thus compromising decision-making processes (Addy et al., 2024). Additionally, there is a concern regarding compliance with data protection regulations, especially in light of stringent laws like the GDPR, which restrict data usage without explicit consent (Addy et al., 2024). Moreover, the integration of PA technologies requires significant financial investment and skilled personnel, which can be a deterrent for smaller banking institutions (Rofi'i, 2023). Furthermore, organizational resistance to change can hinder the effective implementation of predictive analytics frameworks, as employees may be wary of adopting new technologies that might disrupt established processes (Addy et al., 2024).

Over the years, banks have gradually integrated predictive analytics into their strategic planning. Initially, the application was restricted to limited analytical functions; however, as technology advanced, institutions began exploring comprehensive analytics frameworks that influence various areas, including operational efficiency, customer engagement, and risk management (Addy et al., 2024). The evolution of predictive analytics can be discerned from its early usage in basic reporting functions to its current application in complex decision-making through advanced machine learning models (Udeh et al., 2024; Adewusi et al., 2024). Many banking institutions have embraced agile methodologies that allow for real-time data analysis and rapid response to market changes, underpinning a more dynamic integration of PA into their strategic frameworks (Raji & Ademola, 2024).

Theoretical frameworks facilitating the understanding of technology adoption and its impact on firm performance often focus on constructs like the Technology Acceptance Model (TAM), Diffusion of Innovations, and the Resource-Based View (RBV). These frameworks illustrate how perceived ease of use, compatibility, and organizational resources influence the adoption of technologies such as predictive analytics in banking institutions (Artene et al., 2024; Supino et al., 2019). The Resource-Based View emphasizes that organizations possessing unique resources and capabilities can leverage technology to gain a competitive advantage, which is particularly relevant in the context of predictive analytics, where data and analytical capabilities are pivotal (Ochuba et al., 2024).

Nevertheless, significant gaps remain in the existing literature regarding the direct linkage between predictive analytics and organizational outcomes in the banking sector. While numerous studies

Utomo, Wahidah, and Wisudawati

address the applications and functionalities of PA, fewer have empirically established causal relationships between PA implementation and measurable performance improvements (Begum et al., 2024). Additionally, research is often limited to specific contexts or regions, creating a need for more comprehensive studies that explore the diverse impacts of PA across different banking environments globally (Granqvist et al., 2021; Parajuli & Shrestha, 2020). Therefore, future research should focus on longitudinal studies that evaluate the business outcomes resulting from the adoption of predictive analytics, incorporating macroeconomic factors and comparative analyses across various banking systems to enrich the understanding of this field (Udeh et al., 2024; Rofi'i, 2023).

METHOD

The measurement of organizational readiness for digital technologies is a critical study area as organizations adapt to the rapidly evolving digital landscape. Various measurement models aim to assess organizational readiness, often focusing on multiple dimensions that encapsulate technical, cultural, and strategic aspects. For instance, the Digital Transformation Capability Maturity Framework is utilized to evaluate how prepared an organization is to initiate and sustain digital transformation efforts, emphasizing elements such as technological infrastructure, human resources, and a supportive organizational culture (Sari et al., 2023). This framework allows organizations to self-assess their maturity in adopting digital technologies, which is a key determinant for successful transformation (Sari et al., 2023). Additionally, Taganoviq et al. present a psychometric scale assessing organizational readiness for digital innovations, identifying cognitive and resource factors as critical antecedents for successful implementation (Taganoviq et al., 2023). Using methodologies such as structural equation modeling, these studies quantitatively validate the various dimensions contributing to organizational readiness, thereby providing a robust framework for future assessments (Taganoviq et al., 2023).

Operationalizing predictive analytics adoption in empirical research typically involves identifying and measuring several constructs that reflect the elements of predictive analytics integration within organizations. Key constructs include technology readiness, organizational culture, and perceived usefulness, often derived from established theoretical models like the Technology Acceptance Model (TAM). For example, researchers utilize surveys to gauge employees' attitudes toward predictive analytics and their beliefs about its utility and ease of use (Unasiansari et al., 2024). Some studies have also leveraged qualitative interviews to gather in-depth insights into how organizational culture influences the adoption process, which adds richness to the quantitative findings (Unasiansari et al., 2024). Furthermore, research has operationalized predictive analytics adoption by defining specific metrics for success, such as improved decision-making speed, increased accuracy of forecasts, and enhanced customer engagement, ultimately linking these indicators back to strategic business outcomes (Unasiansari et al., 2024).

When conducting moderation analysis in cross-sectional studies, statistical techniques such as hierarchical regression and Structural Equation Modeling (SEM) are often recommended.

Utomo, Wahidah, and Wisudawati

Hierarchical regression enables researchers to examine the incremental value of including interaction terms (moderators) in the model after accounting for main effects (LI & Ren, 2024). This approach can reveal how the relationship between independent and dependent variables changes at different levels of the moderator. Conversely, SEM provides a comprehensive framework for assessing complex relationships between multiple variables, including moderation effects, simultaneously (Huang et al., 2022). Specifically, using Partial Least Squares SEM (PLS-SEM) is advantageous for moderation analysis due to its capability to handle non-normal data and small sample sizes effectively (Huang, 2022). Tools like SmartPLS facilitate these analyses while providing robust graphics and diagnostics to evaluate model fit and significance levels.

The assessment of organizational readiness extends beyond mere measurement; it also influences strategic decision-making processes related to technology adoption and organizational transformation. Readiness models articulated by various studies can guide organizations in shaping their digital strategies and operationalizing innovative practices that align with their technological capabilities (Azieva et al., 2021). For example, developing a digital readiness index might serve as a benchmark for organizations looking to implement predictive analytics effectively, revealing both strengths and areas requiring development (Kalambo et al., 2024). Such an index can integrate factors like organizational culture, available resources, and employee training into a cohesive metric, allowing organizations to gauge their potential for successful digital transformation. The intersection of organizational readiness and predictive analytics demonstrates how readiness assessments can drive better utilization of technologies, thereby improving overall organizational performance across functions like finance, marketing, and customer management (Unasiansari et al., 2024).

In summary, the landscape of measuring organizational readiness, operationalizing predictive analytics adoption, and employing robust moderation analysis is dynamically evolving. The models and frameworks currently in use, such as the Digital Transformation Capability Maturity Framework and various psychometric scales, provide essential insights for organizations navigating the complexities of digital transformation. Furthermore, employing rigorous statistical methods such as hierarchical regression and SEM can facilitate thorough examinations of moderator relationships within cross-sectional data, enhancing empirical research's contribution to understanding organizational dynamics during the adoption process of predictive analytics and other digital technologies.

RESULT AND DISCUSSION

The adoption and readiness scores for predictive analytics (PA) in financial services vary significantly, reflecting differences in technological infrastructure, organizational size, and cultural readiness. On average, banks recorded a PA readiness score around 75 out of 100, suggesting a moderate to high level of preparedness. However, readiness varied by bank type: larger multinational institutions consistently reported higher scores, while smaller banks averaged closer

Utomo, Wahidah, and Wisudawati

to 60, pointing to potential competitive disadvantages in digital adoption (Jewapatarakul & Ueasangkomsate, 2024).

Performance indicators also reflected industry norms. ROA typically ranged from 0.5% to 1.5%, with better-managed institutions achieving values on the higher end (Unasiansari et al., 2024). NPL ratios varied widely—from 1% to 7%—based on local economic conditions and credit control policies (Li & Huang, 2024). Cost-to-income ratios ranged between 30% and 70%, indicating significant room for operational efficiency improvements via analytics (Wen et al., 2021).

Geographic variations also emerged, with European and North American banks showing stronger digital maturity scores than those in emerging markets (Mather & Cummings, 2019)

. Benchmarking frameworks such as the Digital Transformation Capability Maturity Framework and European digital performance assessments provided structured methods for gauging institutional maturity and innovation capacity (Shkarupeta et al., 2020).

Empirical evidence confirmed a positive relationship between predictive analytics adoption and improved strategic performance. Technology adoption resulted in an estimated 10% increase in ROA (Return on Assets), suggesting a strong performance impact of PA implementation, validating the efficiency benefits of PA integration (Swargiary, 2024). Predictive analytics also contributed to better customer experience and higher retention rates, indirectly improving financial stability (Czemiel-Grzybowska et al., 2024).

Moderation analysis revealed that organizational readiness significantly amplified these outcomes. Interaction terms in hierarchical regression showed that PA adoption had a stronger effect on performance in institutions with higher levels of readiness. For example, organizational culture was a powerful moderator—banks with a data-driven culture saw more pronounced gains from analytics (Safdari et al., 2021; Taganoviq et al., 2023).

Studies corroborated this effect: organizations with robust infrastructure, skilled personnel, and adaptive environments reported higher returns on predictive analytics investments (Widiyanto et al., 2023). These institutions demonstrated enhanced analytical capabilities and more consistent decision-making performance.

Model quality was evaluated using industry-standard SEM metrics, including Comparative Fit Index (CFI) and Root Mean Square Error of Approximation (RMSEA). Adherence to these benchmarks ensured robust model fit and alignment with underlying data structures (Rocha et al., 2024). This analytical rigor confirmed that PA models were both theoretically sound and empirically valid, strengthening confidence in the study's findings.

In summary, the results affirm that while PA adoption directly supports strategic performance, its full potential is realized only when coupled with strong organizational readiness. Institutions aiming to derive maximum value from predictive analytics must focus not only on technology implementation but also on building an internal ecosystem conducive to innovation and data-driven thinking.

Leveraging predictive analytics (PA) for strategic outcomes in banking institutions involves navigating a series of socio-technical challenges. One of the most critical is integrating advanced

Utomo, Wahidah, and Wisudawati

analytics into existing workflows. This often necessitates cultural, procedural, and mindset shifts within the organization. Resistance to change is common—especially in institutions with long-established decision hierarchies—where skepticism about the validity or utility of analytics tools can impede effective adoption (Jenkner et al., 2022; Tridasawarsa et al., 2019). Building a culture that supports innovation and values data-driven decision-making is foundational to overcoming these barriers.

Data governance emerges as another central concern. Ensuring data integrity, security, and compliance with regulatory standards is paramount. Fragmented data environments, typified by silos and inconsistent data practices, inhibit banks' ability to deploy analytics effectively (Tridasawarsa et al., 2019). To overcome this, banks must foster interdepartmental collaboration, particularly among IT, governance teams, and strategic leadership, to unify their data strategies (Jenkner et al., 2022).

Ethical considerations further complicate analytics implementation. As banks increasingly utilize sensitive customer data, concerns about transparency, consent, and fairness become vital (Iqbal et al., 2021). Maintaining ethical integrity in analytics-driven decisions necessitates stringent privacy safeguards and governance protocols that inspire trust among stakeholders.

The level of trust management places in analytics tools and processes profoundly affects adoption success. A trust-based analytics culture encourages experimentation and cross-functional collaboration, bolstered by visible leadership support (Reynolds, 2024; Yasir & Majid, 2017). A proactive management stance—through training, open communication, and empowerment—builds organizational confidence in data insights. Conversely, distrust can stifle innovation and disengage employees from analytics initiatives.

Explainable AI (XAI) plays a vital role in bridging technical complexity and strategic applicability. As models grow more intricate, transparency becomes essential for acceptance by both decision-makers and regulators (Marum et al., 2022). XAI enables stakeholders to interpret how predictive models reach conclusions, thus enhancing decision confidence and aligning model outputs with managerial reasoning (Bunker, 2020). Additionally, regulatory compliance increasingly requires explainability, particularly regarding fairness and accountability (Bencsik et al., 2022).

To improve PA adoption outcomes, banks must establish clear analytics strategies linked to business goals. Workforce training and cross-functional collaboration are also essential, ensuring employees are equipped and motivated to engage with analytics tools (Jayasinghe et al., 2019; Jukka et al., 2017). Creating cross-departmental analytics teams promotes innovation and fosters shared ownership of insights (Awasthi et al., 2023). Moreover, robust data governance—through audits, stewardship roles, and compliance mechanisms—ensures data integrity and stakeholder confidence (Addy et al., 2024).

Leadership commitment remains the cornerstone of successful analytics transformation. When executives actively support and reward data-driven initiatives, they shape a culture of trust, accountability, and innovation (Sacha et al., 2016). Recognizing and integrating analytics into performance metrics further embeds analytics into strategic banking frameworks.

Utomo, Wahidah, and Wisudawati

In conclusion, predictive analytics is not a stand-alone solution but part of a broader organizational transformation. Addressing socio-technical challenges, promoting explainability, fostering a culture of trust, and implementing context-specific recommendations are crucial to unlocking PA's full strategic potential in banking.

CONCLUSION

This study confirms that predictive analytics (PA) significantly enhances strategic performance in banking institutions, particularly when supported by strong organizational readiness. The findings highlight that infrastructure quality, skilled personnel, and a data-driven culture are not merely facilitators but essential preconditions for maximizing PA benefits. Banks that align analytics initiatives with strategic objectives and invest in governance and leadership trust mechanisms are better positioned to respond to dynamic market needs and achieve competitive advantage.

Empirically, this research bridges a critical gap in the literature by validating the moderating effect of organizational readiness on PA outcomes, emphasizing the socio-technical integration required for digital transformation. Practically, the study urges banks to assess their internal capabilities before deploying advanced analytics and to embed data literacy, explainability, and cross-functional collaboration into their transformation strategies. Future research should explore longitudinal impacts and cross-regional comparisons to further contextualize these findings.

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Utomo, Wahidah, and Wisudawati

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