

Date: 9<sup>th</sup> February-2026

ARTIFICIAL INTELLIGENCE IN STRATEGIC MARKETING SYSTEMS:  
FINANCIAL LITERACY IN DIGITAL ECOSYSTEMS

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**Abstract:** Artificial intelligence (AI) technologies have rapidly transformed modern marketing practices. As a result, traditional static planning systems are being replaced by dynamic, data-integrated ecosystems based on automated personalization, algorithmic decision making, and predictive analytics. However, despite the growing body of research in the field of digital marketing technologies, a comprehensive theoretical and methodological framework explaining the systematic integration of AI into strategic marketing management remains underdeveloped.

Furthermore, AI-driven marketing systems are increasingly influencing consumer decision-making and their financial literacy in the digital financial environment. Algorithmic personalization influences not only purchasing behavior but also how people interpret financial information, assess risks, and manage budgets on digital platforms. The goal of this study is to develop an integrated theoretical and methodological framework explaining the structural transformation of strategic marketing systems under the influence of AI and exploring its implications for consumer behavior and financial literacy in digital ecosystems.

1. Relevance of the Research

Data analytics, automation, and predictive technologies have become increasingly important in business decision-making processes as a result of the shift to a digital economy. A major force behind this change is artificial intelligence, which has an impact on customer targeting, price tactics, demand forecasts, market segmentation, and brand positioning, consequently stable market conditions and constrained information processing power. On the other hand, contemporary digital ecosystems function within infrastructures that are controlled by algorithms, where AI-powered systems constantly improve user interactions, content exposure, and behavioral recommendations.

In digital financial platforms, artificial intelligence not only improves marketing efficiency but also influences consumer financial behavior. Personalized financial communication, AI-based advice tools, and predictive behavioral modeling have a direct impact on financial literacy development because they influence how users comprehend financial data and make economic decisions.

Despite these changes, extant academic work is mostly concerned with technical AI applications, rather than the systemic reconfiguration of strategic marketing structures and their broader socioeconomic ramifications. A theoretical gap remains in understanding how AI-powered marketing systems influence both strategic competitiveness and consumer financial awareness.



Date: 9<sup>th</sup> February-2026

This research addresses this gap by proposing a comprehensive theoretical and methodological model integrating AI-based strategic marketing systems with behavioral and financial literacy dimensions.

## 2. Research Objective

The main objective of this investigation is to create an integrated theoretical and methodological framework that discusses how artificial intelligence restructures strategic marketing systems and analyzes the implications for consumer behavior and financial literacy inside digital ecosystems.

## 3. Research Tasks

To reach this goal, the study will:

- Analyzing the transformation of strategic marketing systems in the context of AI integration;
- Studying the structural evolution of marketing architecture in the context of algorithmic management;
- Investigating the relationship between AI-based personalization and the adaptation of consumer behavior on digital platforms;
- Developing quantitative metrics for measuring the effectiveness of AI-based marketing;
- Assessing the impact of AI-enabled communications on financial literacy development;
- Proposing methodological tools for the empirical testing of AI-based marketing and behavioral models.

## 4. Theoretical Framework and Hypothesis

This study integrates multiple theoretical perspectives, including strategic marketing theory, systems theory, behavioral economics, financial literacy theory, and algorithmic management theory. Together, these concepts explain how AI is transforming marketing architectures and consumer decision-making processes in digital ecosystems.

Main Hypothesis:

Artificial intelligence functions as a mechanism for structural transformation in strategic marketing systems, influencing not only competitive positioning and performance monitoring but also consumer cognitive processes and financial decision-making models.

## 5. Methodology

The study utilizes a mixed-methods approach, combining conceptual modeling and quantitative empirical analysis. Methodological tools include:

- Econometric modeling
- Structural equation modeling (SEM)
- Regression analysis
- Cluster analysis
- Big data behavioral analytics
- Comparative institutional analysis

Independent variables:

- Degree of AI integration



Date: 9<sup>th</sup> February-2026

- Level of algorithmic personalization
- Frequency of automated recommendations
- Digital platform maturity

Dependent variables:

- Marketing ROI
- Customer lifetime value (CLV)
- Brand equity metrics
- Consumer confidence index
- Financial literacy index
- Financial decision-making ability

6. Expected Contributions

Theoretical Contributions:

- Advancement of strategic marketing theory in AI-powered contexts
- Integrating behavioral economics and financial literacy concepts into AI-powered marketing systems;
- Creating a multidimensional conceptual paradigm that connects AI-powered personalization with strategic competitiveness and consumer financial awareness;
- Reinterpreting marketing systems as socio-technical infrastructures that influence economic behavior.

7. Practical Contributions:

- Diagnostic techniques to assess AI readiness in strategic marketing systems;
- Strategic recommendations for responsible AI implementation on digital financial systems;
- Policy-level ideas for improving digital financial literacy via AI-powered communication channels.

8. Conclusion

Artificial intelligence represents more than just technological progress; it represents a structural reorganization of consumer interaction mechanisms and strategic marketing systems. This article explores the transformation of digital ecosystems driven by AI by integrating behavioral economics, financial literacy, and strategic marketing theory. In addition to demonstrating the growing importance of AI in shaping market competitiveness, the proposed framework highlights its role in enhancing consumer financial awareness in the digital age. Consequently, the study contributes to both academic research and practical strategic management.

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Date: 9<sup>th</sup> February-2026

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