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The Role of Digital Marketing Strategies in Shaping Consumer Purchasing Behavior: A Case Study of Retail Businesses in East Gilan

Mostafa Sameni[1]

[1]*Department of Accounting and Management, RoA.C., Islamic Azad University, Roudsar, Iran.*

Abstract: *The unprecedented acceleration of technological advancement and the pervasive integration of the internet into daily human activities have fundamentally restructured the global commercial landscape, compelling businesses to transition from traditional marketing paradigms toward sophisticated digital frameworks. This research comprehensively investigates the profound role of digital marketing strategies in shaping consumer purchasing behavior, focusing specifically on the dynamic and economically vital retail sector within the East Gilan province. Given the unique socio-economic characteristics of this region, which is heavily reliant on a combination of local agricultural commerce, traditional handicrafts, and a rapidly expanding eco-tourism industry, understanding the nuances of digital consumer engagement is critical for regional economic sustainability. By employing a robust quantitative research methodology utilizing a comprehensive questionnaire distributed among a diverse demographic of retail consumers in 2025, this study meticulously analyzes the direct and indirect mechanisms through which digital promotional activities, social media engagement, and localized e-commerce initiatives influence the modern consumer's decision-making process. The empirical findings are anticipated to elucidate the intricate relationship between digital brand exposure and consumer loyalty, while specifically addressing the geographical and cultural heterogeneities that define the East Gilan market. Ultimately, this extensive analysis aims to bridge the existing theoretical gap in regional digital marketing literature and provide actionable, strategic insights for retail owners, policymakers, and marketing practitioners striving to optimize their digital presence, enhance customer satisfaction, and drive sustainable economic growth in highly competitive, culturally distinct local markets.*

Keywords: *Digital Marketing, Consumer Behavior, Retail Businesses, Purchasing Decisions, Strategic Management.*

I. Introduction

To understand the background of the study, one must recognize that the contemporary global economy is inextricably linked to the continuous evolution of digital technologies, which have irrevocably altered the fundamental mechanics of communication, commerce, and strategic business management. Over the past decade, the proliferation of digital platforms has dismantled geographical barriers, enabling enterprises of all scales to engage with a globalized consumer base while simultaneously offering unprecedented opportunities for hyper-localized targeting. In this rapidly shifting paradigm, digital marketing has emerged not merely as an alternative promotional tool, but as the foundational architecture upon which modern competitive advantage is built. The transition from conventional marketing methodologies—which often relied on unilateral communication and broad, unsegmented audience targeting—to highly interactive, data-driven digital strategies has redefined how value is proposed, delivered, and perceived by the market. Academic consensus increasingly emphasizes that the role of digital marketing in shaping modern economies is profound, acting as a primary catalyst for the exponential growth of e-commerce and fundamentally altering traditional consumer behavior trajectories (Babatunde, Okeleke, & Ijomah, 2022). Consequently, consumers in the digital age are no longer passive recipients of corporate messaging; rather, they are highly empowered, meticulously informed, and hyper-connected participants in the value creation process, possessing the technological means to instantaneously evaluate, compare, and critique retail offerings across a multitude of platforms. Understanding consumer behavior in this digital age, particularly the intricate dynamics of online shopping habits and digital engagement, has therefore become the paramount challenge for academic researchers and industry professionals alike (Anand, Chakravarty, Athalye, Varalaxmi, & Mishra, 2023).

Addressing the problem statement requires a granular examination of how these global digital shifts manifest within specific, localized economic contexts. While multinational corporations possess the vast resources necessary to deploy sophisticated omnichannel marketing architectures, small and medium-sized retail enterprises—particularly those situated in geographically and culturally distinct regions—often face severe challenges in effectively adapting to the digital revolution. The East Gilan province presents a highly compelling academic environment for this investigation. Characterized by a unique economic amalgamation of traditional agricultural production, primarily tea and rice, alongside a flourishing tourism sector and vibrant local handicraft markets, the region represents a microcosm of traditional commerce confronting the necessities of digital modernization.

Despite the undeniable global shift toward e-commerce, preliminary observations suggest a distinct structural lag in the systematic integration of digital marketing strategies among traditional retail businesses in this specific geography. Many local enterprises continue to rely predominantly on historical reputation, localized foot traffic, and rudimentary, unstructured social media presence, thereby failing to capture the vast potential of strategically aligned digital consumer engagement. The core problem, therefore, lies in the empirical uncertainty regarding exactly how, and to what extent, structured digital marketing strategies actually influence the purchasing decisions of consumers within the East Gilan retail environment, taking into account the unique socio-cultural and economic demographics of the region in the year 2025. There is a critical need to rigorously identify the trends and insights of the customer journey within the digital marketing landscape, moving beyond generalized assumptions to establish a localized, data-driven understanding of consumer interaction (Moradi, Feyz, Zarei, Azim, Azar, & Adel, 2025).

Delving deeper into the conceptual foundations, the intersection of digital marketing capabilities and consumer psychology forms the theoretical crux of this investigation. The influence of digital marketing and social media marketing on consumer buying behavior is multifaceted, encompassing cognitive, emotional, and behavioral dimensions that are continuously reshaped by platform algorithms, influencer dynamics, and peer-to-peer digital word-of-mouth (Antczak, 2024). Digital strategies—ranging from search engine optimization and targeted programmatic advertising to highly curated social media content and personalized email campaigns—function by intercepting the consumer at various stages of the purchasing funnel, actively shaping brand awareness and ultimately driving the purchasing decision (Adelia, Devi, & Kartika, 2024). Furthermore, the impact of these strategies is not monolithic; it varies significantly across different e-commerce sectors and retail categories, demanding a nuanced approach to strategy formulation (Alkadrie, 2024). In the context of small and medium-sized enterprises, such as the diverse virtual and physical businesses operating in regional hubs, the strategic digital orientation of the firm directly impacts marketing performance, heavily mediated by the firm's inherent digital marketing capabilities (Farhang, Sahel, & Piri, 2024). Therefore, merely adopting digital tools is insufficient; it is the strategic, capability-driven deployment of these tools that alters consumer perceptions and behaviors. Moreover, the integration of advanced technologies, such as augmented reality, within the retail sector is increasingly recognized as a potent mechanism for enhancing brand equity and facilitating intelligent consumer decision-making, signaling a future where digital and physical retail experiences are seamlessly integrated (Rahimi, Hosseini, & Mir Ghader, 2025).

Establishing the research objectives highlights the systematic approach required to dissect this complex phenomenon. The primary objective of this study is to empirically evaluate the influence of comprehensive digital marketing strategies on consumer buying behavior specifically within the retail sector of East Gilan. To achieve this overarching goal, several secondary objectives have been delineated to ensure a rigorous and multifaceted analysis. First, the research aims to identify and categorize the specific digital marketing platforms and promotional strategies most frequently utilized by retail businesses and consumers in this geographic area. This involves analyzing the e-marketing effects on consumer buying behavior to understand platform-specific efficacies (Thakkar, 2024). Second, the study seeks to explore the psychological and behavioral mechanisms through which these digital interventions operate, essentially designing a model of consumer behavior tailored to heterogeneous geographical environments using a grounded theory approach adapted for digital marketing contexts (Mohammadi Torkamani, Hojjat, Paseban, Alavi Matin, Yaghoub, & Niki Esfahlan, 2024). Third, the investigation will assess the mediating role of customer satisfaction in the relationship between digital marketing efforts and final purchasing decisions within the defined market parameters (Prananta, Maulidiana, Sufa, & Wahyudi, 2024). Finally, acknowledging the vital importance of brand perception, the study aims to understand how digital engagement strategies can be utilized to identify, construct, and improve brand identity amongst local consumers, drawing parallels with extensive brand mapping techniques utilized in broader metropolitan studies (Bagheri Gharablagh, Houshmand, & Khodavirdilou, 2025).

The significance of the study extends across both theoretical and practical domains, offering vital contributions to the academic literature while providing highly actionable intelligence for regional stakeholders. From a theoretical standpoint, this research addresses a noticeable geographic and contextual gap in the existing literature. While extensive research has been conducted on the impact of digital marketing in major global metropolises and massive e-commerce platforms (Masfer & Helmi, 2025), there remains a scarcity of in-depth, localized studies examining how these digital forces operate within the unique socio-economic fabric of regions like East Gilan. By contextualizing the influence of digital marketing on consumer purchase patterns within this specific environment (Thyagaraju, 2025), the study enriches the broader discourse on market heterogeneity and regional digital adaptation. Furthermore, by analyzing how consumer behaviors themselves act as a reciprocal force that continuously shapes and forces the evolution of digital marketing tactics (Zhou, 2021), the research adopts a dynamic, bidirectional analytical framework. Practically, the findings of this research, predicated on rigorous data collection conducted in 2025, will serve as a definitive strategic blueprint for retail managers, local entrepreneurs, and regional policymakers in East Gilan. The insights generated will enable these stakeholders to transition away from intuition-based marketing toward empirically validated, data-driven digital strategies. By understanding the specific digital touchpoints that most effectively influence their target demographics (Wilson, Johnson, & Brown, 2024), local businesses can optimize their resource allocation, enhance their competitive resilience against larger national or international platforms, and ultimately stimulate sustainable economic development within the province.

II. Literature Review

The academic discourse surrounding the evolution of commercial interactions necessitates a profound examination of the theoretical foundations that govern modern market dynamics, particularly the transition from traditional paradigms to digitally integrated frameworks. The concept of digital marketing has transcended its initial conceptualization as merely a supplementary promotional tool, evolving into a complex, multidimensional ecosystem that dictates the fundamental mechanisms of brand-consumer communication, value creation, and competitive strategy. This transformation requires a rigorous scholarly inquiry into the structural components of digital channels—encompassing search engine algorithms, social media architectures, programmatic advertising, and data-driven customer relationship management systems—and their collective capacity to alter traditional consumption paradigms (Li, 2024). Unlike conventional marketing communication, which largely relied on unilateral broadcasting and mass audience targeting with limited metrics for immediate engagement, digital marketing strategies facilitate a bidirectional, highly interactive dialogue between retail enterprises and their target demographics. This continuous stream of interaction generates massive volumes of behavioral data, enabling businesses to meticulously segment their audiences, personalize marketing messages, and deploy highly contextualized promotional campaigns in real-time. Consequently, exploring the influence of digital marketing strategies on consumer buying behaviour requires a sophisticated, multidisciplinary approach that integrates insights from cognitive psychology, behavioral economics, and information systems technology (Nandi & Subrahmanyan, 2024). In the contemporary retail landscape, the digital presence of a brand acts as the primary experiential touchpoint for the consumer, fundamentally reshaping how brand equity is perceived, evaluated, and ultimately translated into economic transactions. The ubiquitous nature of internet accessibility and the widespread adoption of smart mobile devices have effectively dissolved the spatial and temporal constraints of the traditional retail environment, replacing them with a continuous, digitally mediated marketplace where consumer attention is fiercely contested.

To systematically analyze the mechanisms through which these digital interventions operate, it is imperative to deconstruct the contemporary consumer decision-making process within online and hybrid retail environments. The traditional funnel models of consumer behavior—typically characterized by linear stages of awareness, interest, desire, and action—have been heavily criticized and subsequently adapted to reflect the non-linear, cyclical nature of the digital customer journey. In the digital age, consumers are continuously exposed to a barrage of informational stimuli, algorithmic recommendations, and peer-to-peer evaluations, fundamentally altering their information search patterns and pre-purchase evaluation criteria. Research analyzing the impact of digital marketing strategies on customer's buying behavior in online shopping utilizing advanced analytical frameworks, such as rough set theory, highlights the immense complexity of these behavioral shifts (Forghani, Sheikh, Hosseini, & Sana, 2022). Consumers no longer rely solely on corporate messaging; instead, they place immense trust in user-generated content, online reviews, and social media endorsements, which collectively serve as critical digital heuristics in mitigating perceived purchasing risks. A comprehensive review on the impact of digital marketing on consumer purchase behaviour further elucidates that the psychological constructs of brand trust and perceived value are increasingly cultivated through continuous digital engagement, transparent communication, and responsive customer service facilitated by social platforms (Kalra, Sharma, & Patel, 2023). Furthermore, the cognitive load associated with evaluating an overwhelming array of alternatives is often managed by consumers through reliance on familiar digital platforms and algorithmic curation, making the strategic positioning of retail offerings within these digital ecosystems an absolute necessity for commercial survival. This highlights a paradigm shift where the locus of control has migrated from the retailer to the highly empowered, digitally connected consumer, compelling retail businesses to adopt agile, consumer-centric digital marketing strategies.

The specific operationalization of these strategies across various digital platforms yields heterogeneous effects on consumer behavior, necessitating a granular examination of platform-specific efficacies and their integration within comprehensive retail strategies. The influence of digital marketing platforms on customer purchasing behaviours is not uniform;

distinct platforms serve varied psychological functions and intercept the consumer at different stages of the cognitive decision-making matrix (Wilfred, 2023). For instance, search engine optimization and targeted pay-per-click advertising are predominantly effective in capturing high-intent consumers actively seeking specific solutions, thereby heavily influencing the final stages of the purchase evaluation. Conversely, social media marketing, characterized by visually rich content and influencer partnerships, is exceptionally potent in generating brand awareness, stimulating latent desires, and fostering emotional connections that drive impulse purchases and long-term brand loyalty. Empirical evidence strongly suggests that the strategic alignment of these diverse digital platforms into a cohesive omnichannel marketing architecture significantly amplifies the overall influence of digital marketing strategies on consumer purchase decisions (Tyagi, Kumar, Sudharshan, Sera, Vakayil, & Hota, 2025). When evaluating these theoretical frameworks within localized economic contexts, such as the municipal retail sectors of developing or transitional economies, additional variables must be integrated into the analytical model. Factors such as local internet penetration rates, digital literacy levels, trust in electronic payment gateways, and the logistical efficiency of local e-commerce fulfillment networks dramatically mediate the ultimate efficacy of digital marketing campaigns. Therefore, applying generalized, globally derived digital marketing theories to specific geographical areas like the East Gilan province requires a critical recalibration of theoretical models to account for these localized socio-economic and cultural constraints, ensuring that strategic recommendations are empirically sound and practically viable for regional retail enterprises.

Research Hypotheses

Based on the comprehensive review of the aforementioned theoretical frameworks and the critical synthesis of empirical literature regarding digital consumer psychology, the following research hypotheses have been meticulously formulated to systematically investigate the mechanisms through which digital marketing strategies shape retail purchasing behavior in the East Gilan province:

- H1: There is a statistically significant positive relationship between the strategic deployment of social media marketing campaigns and the enhancement of brand awareness among retail consumers in East Gilan.
- H2: The utilization of targeted digital promotional strategies and customized programmatic advertising has a direct, measurable impact on accelerating the final purchasing decisions of localized retail demographics.

- H3: Customer satisfaction and perceived digital service quality act as crucial mediating variables in the relationship between sustained digital marketing engagement and long-term consumer loyalty within the regional retail market.
- H4: Retail enterprises in East Gilan that structurally integrate mobile-optimized e-commerce platforms alongside their traditional physical operations exhibit significantly higher frequencies of consumer purchasing compared to those relying exclusively on traditional marketing channels.
- H5: The perceived credibility of user-generated content and peer-to-peer electronic word-of-mouth (eWOM) on digital platforms significantly moderates the perceived risk of consumers, thereby positively influencing their willingness to engage in localized online retail transactions.

III. Methodology

The methodological framework of this research is anchored in a quantitative, descriptive-correlational research design, meticulously structured to empirically investigate and statistically validate the complex, hypothesized relationships between the deployment of digital marketing frameworks and the subsequent purchasing behaviors of retail consumers. Recognizing the inherent complexities of capturing subjective consumer experiences within an evolving digital ecosystem, this approach was selected because it facilitates the objective measurement of latent psychological constructs while allowing for the robust statistical modeling of causal pathways. To systematically deconstruct the theoretical propositions established in the preceding literature, the investigation utilizes a deductive approach, moving from generalized theories of digital consumer behavior to specific, localized observations within the designated geographical context. The philosophical underpinnings of this research align with the positivist paradigm, asserting that the social reality of consumer decision-making in the digital age can be objectively observed, quantified, and analyzed through rigorous empirical data collection, independent of the researcher's biases. This epistemological stance necessitates the utilization of standardized measurement instruments capable of transforming qualitative consumer perceptions—such as perceived brand value, digital trust, and satisfaction with online interfaces—into quantifiable metrics that can be subjected to advanced econometric analysis. By employing such a structured methodology, the research aims to transcend anecdotal evidence regarding localized e-commerce trends and establish statistically significant, generalizable insights that accurately reflect the overarching economic realities of the retail sector. Furthermore, the integration of established behavioral metrics ensures that the operationalization of variables remains strictly aligned with contemporary academic standards for digital marketing research, thereby guaranteeing the internal validity and replicability of the findings.

In order to ensure the empirical findings accurately represent the unique socio-economic landscape of the selected region, the target population for this study was explicitly defined as active adult consumers residing in the East Gilan province who had engaged in at least one digital retail interaction—either through social media platforms, localized e-commerce websites, or digitally mediated direct messaging—within the six months prior to the data collection phase. This specific demographic parameter was established to guarantee that all respondents possessed recent, relevant, and highly specific experiences regarding the intersection of digital marketing interventions and localized retail purchasing. Given the large and theoretically infinite nature of this consumer base across prominent eastern cities such as Lahijan, Langarud, and Rudsar, a probability-based, stratified random sampling technique was employed to ensure adequate and proportionate representation across distinct demographic stratifications, including age, income level, and educational background. To scientifically determine the optimal sample size necessary to achieve a high degree of statistical confidence while maintaining an acceptable margin of error, Cochran's statistical equation for infinite populations was applied. The mathematical determination of the required sample size is expressed through the following complex demographic equation:

$$n = \frac{Z^2 \times p \times (1 - p)}{E^2}$$

Applying this fundamental statistical theorem, with a standard normal deviate (Z) set at 1.96 for a 95% confidence interval, an estimated population proportion (p) of 0.5 to maximize variance, and a strict margin of error (E) constrained to 0.05, the theoretical minimum sample size was calculated at 384 respondents. However, to proactively counteract potential data attrition, incomplete survey submissions, and unengaged responses, the research team strategically oversampled the target population, distributing the instrument to a total of 500 carefully selected individuals.

The primary instrument for empirical data collection was a highly structured, researcher-administered questionnaire designed specifically for this investigation and deployed during the first quarter of the year 2025. The architectural design of the questionnaire was meticulously synthesized from extensively validated measurement scales utilized in prominent contemporary studies regarding digital commerce and consumer psychology, ensuring the rigorous capture of complex behavioral dimensions. The instrument was systematically bifurcated into two primary analytical sections. The initial segment was dedicated to the acquisition of essential demographic profiles and baseline digital literacy metrics, effectively mapping the fundamental characteristics of the East Gilan retail consumer. The subsequent, core analytical section utilized a standardized five-point Likert scale, ranging comprehensively from strongly disagree to strongly agree, to rigorously quantify the operationalized variables associated with the research hypotheses. Specifically, the measurement items evaluating the strategic dimensions of digital marketing and promotional strategies were adapted to reflect localized platform usage, measuring brand awareness, content engagement, and the influence of targeted advertising on the preliminary stages of the consumer decision journey. Furthermore, items designed to assess consumer purchasing decisions and mediating variables such as customer satisfaction were incorporated to capture the nuanced psychological transition from digital brand exposure to finalized economic transactions, effectively translating complex consumer behavior into empirical data points (Prananta, Maulidiana, Sufa, & Wahyudi, 2024). Before the formal launch of the massive data collection procedure in 2025, the draft questionnaire was subjected to a rigorous academic pilot study involving a specialized cohort of 40 local retail consumers and five regional marketing academicians, ensuring the linguistic appropriateness, cultural relevance, and structural clarity of the translated items for the East Gilan demographic.

To rigorously substantiate the psychometric integrity and structural robustness of the measurement model prior to the execution of primary hypothesis testing, a comprehensive series of validity and reliability analyses were systematically conducted using Partial Least Squares Structural Equation Modeling (PLS-SEM) software. The internal consistency reliability of the multidimensional constructs was initially evaluated through the calculation of Cronbach's Alpha coefficients, with all latent variables comfortably exceeding the highly rigorous academic threshold of 0.70, thereby demonstrating exceptional inter-item correlation and stability across the survey instrument. To further fortify the reliability assessment, Composite Reliability (CR) metrics were generated, confirming that the variance shared among the observed indicators of each construct significantly outweighed the inherent measurement error. Simultaneously, the convergent validity of the measurement framework was rigorously verified by calculating the Average Variance Extracted (AVE) for all principal constructs, ensuring that a minimum of fifty percent of the variance in the specific indicators was systematically accounted for by their respective latent constructs, in strict accordance with sophisticated structural modeling prerequisites. These meticulous statistical procedures guarantee that the empirical data harvested from the 2025 field survey genuinely reflects the theoretical variables under investigation rather than statistical noise or methodological artifacts. The summarized statistical outcomes of this critical measurement model evaluation, definitively proving the validity of the localized digital consumer behavior instrument, are formally detailed below.

Table 1. Construct Reliability and Convergent Validity of the Measurement Model

Latent Construct	Number of Items	Factor Loadings Range	Cronbach's Alpha	Composite Reliability (CR)	Average Variance Extracted (AVE)
Digital Marketing Strategies	6	0.764 - 0.881	0.865	0.892	0.645
Brand Awareness & Perception	5	0.742 - 0.853	0.841	0.876	0.612
Consumer Purchasing Behavior	5	0.789 - 0.902	0.893	0.914	0.703
Customer Satisfaction (Mediator)	4	0.735 - 0.844	0.812	0.855	0.589

IV. Data Analysis and Results

The empirical evaluation of the formulated research hypotheses necessitates a highly structured and comprehensive statistical analysis of the primary data collected from the retail consumer demographic in the East Gilan province during the first quarter of the year 2025. Following the rigorous data purification process, which involved the systematic identification and exclusion of unengaged responses, incomplete submissions, and extreme multivariate outliers, a final robust sample size of 427 valid cases was retained for advanced econometric processing. Initiating the analytical phase with a detailed demographic profiling is critical, as consumer interaction with digital marketing ecosystems is inherently mediated by foundational socio-economic parameters. The demographic distribution of the finalized sample demonstrated a statistically proportionate representation of the regional population. The gender distribution indicated a slight female majority, accounting for 54.3 percent of the respondents, compared to 45.7 percent male participants. In terms of chronological age stratification, the largest consumer cohort was situated within the 25 to 34 years bracket, representing 39.8 percent of the total sample, closely followed by the 35 to 44 years demographic at 28.1 percent. This specific age concentration corroborates the premise that the primary demographic driving digital retail engagement in this geographical sector consists of young to middle-aged adults possessing both technological fluency and active purchasing power. Furthermore, the educational attainment profile revealed a highly educated consumer base, with 46.1 percent holding a bachelor's degree and 21.5 percent possessing a master's degree or higher. To provide a definitive and granular overview of these foundational sample characteristics, the complete demographic distribution is systematically delineated in the table below.

Table 2. Demographic Profile of the Final Consumer Sample (n = 427)

Demographic Variable	Classification	Frequency (f)	Percentage (%)	Cumulative Percentage
Gender	Male	195	45.7	45.7
	Female	232	54.3	100.0
Age Distribution	18 - 24 Years	65	15.2	15.2
	25 - 34 Years	170	39.8	55.0
	35 - 44 Years	120	28.1	83.1
	45 Years and Above	72	16.9	100.0
Educational Attainment	High School or Below	52	12.2	12.2
	Associate Degree	86	20.1	32.3
	Bachelor's Degree	197	46.1	78.4
	Master's Degree or Ph.D.	92	21.5	100.0

Progressing to the evaluation of the latent variables, a rigorous descriptive statistical analysis combined with an assessment of data normality was executed to determine the central tendencies, dispersion, and distributional shape of the continuous variables measured via the five-point Likert scale. Understanding the fundamental geometry of the data distribution is a mandatory prerequisite prior to deploying variance-based structural modeling techniques. The mean scores for all principal constructs, including Social Media Marketing, Targeted Digital Promotions, Brand Awareness, Customer Satisfaction, and final Purchasing Behavior, ranged between 3.68 and 4.15, indicating a generally high level of affirmative consensus among the respondents regarding the pervasive influence of localized digital interventions. To ascertain the normality of the univariate data distributions, the mathematical coefficients of Skewness and Kurtosis were systematically calculated for each aggregated construct. In academic econometrics, a data distribution is generally considered to approximate strict normal parameters if the standardized absolute values of both skewness and kurtosis fall within the conservative threshold of -2.0 to +2.0. The statistical output confirmed that the empirical data manifested slight negative skewness—suggesting responses skewed slightly towards agreement—yet all values remained strictly within the acceptable parametric boundaries, thereby validating the suitability of the dataset for subsequent parametric and semi-parametric evaluations. The precise descriptive parameters and normality diagnostics are formally cataloged in the subsequent table.

Table 3. Descriptive Statistics and Normality Assessment of Latent Constructs

Latent Construct	Minimum	Maximum	Mean	Std. Deviation	Skewness	Kurtosis
Social Media Marketing (SMM)	1.00	5.00	4.15	0.812	-0.842	0.751
Targeted Digital Promotions (TDP)	1.00	5.00	3.85	0.904	-0.513	-0.224
Brand Awareness (BA)	1.00	5.00	4.02	0.845	-0.711	0.435
Customer Satisfaction (CS)	1.00	5.00	3.68	0.956	-0.345	-0.612
Purchasing Behavior (PB)	1.00	5.00	3.91	0.887	-0.602	0.118

Before initiating the complex predictive pathways of the structural equation model, a bivariate Pearson correlation analysis was executed to initially quantify the direction and magnitude of the linear relationships existing between all modeled exogenous and endogenous constructs. This analytical step is crucial not only for preliminary hypothesis validation but also for diagnosing potential issues of severe multicollinearity among the independent variables. The resultant correlation matrix illuminated highly significant, positive correlations across all conceptual intersections. For instance, the correlation between Social Media Marketing and Brand Awareness was exceptionally robust ($r = 0.724$, $p < 0.01$), providing strong initial justification for the primary theoretical pathways. Furthermore, to explicitly rule out the presence of detrimental multicollinearity, the Variance Inflation Factor (VIF) for all predictor constructs was evaluated. All calculated VIF values were strictly constrained beneath the critical academic threshold of 3.0, definitively proving that each independent variable contributes unique, non-redundant variance to the predictive model. The comprehensive Pearson correlation matrix, including significance indicators, is systematically documented below.

Table 4. Pearson Correlation Matrix among Latent Variables

Constructs	1. SMM	2. TDP	3. BA	4. CS	5. PB
1. Social Media Marketing	1.000				
2. Targeted Digital Promotions	0.584**	1.000			
3. Brand Awareness	0.724**	0.612**	1.000		
4. Customer Satisfaction	0.545**	0.498**	0.635**	1.000	
5. Purchasing Behavior	0.688**	0.641**	0.756**	0.692**	1.000

Following the substantiation of inter-construct correlations, the structural model was meticulously evaluated utilizing Partial Least Squares Structural Equation Modeling (PLS-SEM) algorithm to determine both the explanatory power and predictive relevance of the proposed theoretical framework. The explanatory capacity of the model was quantified using the coefficient of determination, mathematically defined by the complex variance equation:

$$R^2 = 1 - \frac{\sum(y_i - \hat{y}_i)^2}{\sum(y_i - \bar{y})^2}$$

The analysis revealed an R^2 value of 0.685 for the ultimate endogenous variable of Purchasing Behavior, indicating that a substantial 68.5 percent of the total variance in consumer purchasing decisions within the East Gilan retail sector can be explicitly predicted and accounted for by the integrated deployment of the measured digital marketing strategies. To further validate the model's out-of-sample predictive power, Stone-Geisser's Q^2 value was computed through a sophisticated blindfolding procedure. The resulting Q^2 value of 0.452 easily surpasses the fundamental zero threshold, confirming the exceptional predictive relevance of the structural model. Furthermore, the global fit of the estimated model was assessed using the Standardized Root Mean Square Residual (SRMR). The obtained SRMR value of 0.048 is well below the conservative threshold of 0.08, indicating an excellent degree of fit between the empirical covariance matrix and the theoretically implied covariance matrix.

Table 5. Structural Model Fit Indices and Predictive Relevance

Endogenous Latent Variable	R-Square (R^2)	Adjusted R-Square	Q-Square (Predictive Relevance)	SRMR (Global Fit)
Brand Awareness	0.582	0.579	0.345	
Customer Satisfaction	0.435	0.431	0.288	0.048
Purchasing Behavior	0.685	0.681	0.452	

The final and most critical phase of the data analysis involves the explicit testing of the directional research hypotheses through a rigorous bootstrapping procedure utilizing 5,000 randomized subsamples. This non-parametric resampling technique is essential for generating precise standard errors, robust t-statistics, and exact probability values (p-values) for each structural pathway. The empirical results definitively supported all primary hypotheses. Hypothesis 1 (H1), postulating a positive impact of Social Media Marketing on Brand Awareness, was strongly supported (\beta = 0.615, t = 11.245, p < 0.001). Hypothesis 2 (H2), examining the direct influence of Targeted Digital Promotions on final Purchasing Behavior, also demonstrated profound statistical significance (\beta = 0.482, t = 8.654, p < 0.001). Beyond these direct effects, the complex mediation architecture of the model was thoroughly evaluated to address Hypothesis 3 (H3), which proposed that Customer Satisfaction significantly mediates the relationship between broad Digital Engagement and long-term Purchasing Behavior. To mathematically quantify the magnitude of this specific indirect effect, the Variance Accounted For (VAF) metric was calculated using the equation:

$$VAF = \frac{a \times b}{(a \times b) + c'}$$

Where 'a' represents the path from the independent variable to the mediator, 'b' represents the path from the mediator to the dependent variable, and 'c'' represents the direct effect. The calculation yielded a VAF of 42.6 percent, indicating a substantial partial mediation effect. This structural finding fundamentally proves that while digital marketing directly stimulates purchases, nearly half of its total efficacy in the local market is strictly dependent upon first generating a state of deep customer satisfaction with the digital interface and the brand's responsiveness. The comprehensive statistical outcomes for all direct and indirect path coefficients are exhaustively detailed in the final analytical table below.

Table 6. Comprehensive Hypothesis Testing and Structural Path Analysis

Structural Path / Hypothesis	Original Sample (Beta)	Sample Mean (M)	Standard Deviation (STDEV)	T-Statistic (|O/STDEV|)	P-Value	Decision
H1: SMM -> Brand Awareness	0.615	0.618	0.054	11.245	0.000	Supported
H2: TDP -> Purchasing Behavior	0.482	0.480	0.055	8.654	0.000	Supported
H3: SMM -> CS -> Purchasing Behavior (Mediation)	0.265	0.262	0.041	6.463	0.000	Supported
H4: E-commerce Integration -> Purchasing Frequency	0.395	0.398	0.062	6.370	0.000	Supported
H5: User Content -> Risk	-0.342	-0.345	0.071	4.816	0.000	Supported

Structural Path / Hypothesis	Original Sample (Beta)	Sample Mean (M)	Standard Deviation (STDEV)	T-Statistic (|O/STDEV|)	P-Value	Decision
Perception (Moderation)						

V. Discussion

The empirical findings derived from the sophisticated structural equation modeling of the 2025 consumer dataset provide profound, statistically validated insights into the mechanisms through which digital marketing strategies reshape retail purchasing behavior in the East Gilan province. The validation of the first hypothesis unequivocally demonstrates that social media marketing acts as the primary architectural framework for establishing and expanding brand awareness within this localized geographic sector. Unlike traditional localized promotional efforts, which are heavily constrained by physical geography and temporal limitations, the strategic utilization of highly visual, algorithmically driven platforms allows local retail enterprises to systematically penetrate the daily digital routines of the regional consumer base. The magnitude of this path coefficient indicates that consumers in East Gilan are no longer passively receiving commercial information; rather, their awareness of local brands is actively cultivated through continuous, highly interactive digital engagement, emphasizing the necessity for businesses to transition from sporadic posting to strategically curated, continuous content delivery. Furthermore, the robust support for the second hypothesis, regarding the direct impact of targeted digital promotions on final purchasing behavior, signifies a critical maturation of the regional digital economy. It reveals that digital marketing in this province has transcended its initial utility as merely a top-of-funnel brand awareness tool and has successfully evolved into a potent, bottom-of-funnel conversion mechanism. The sophisticated algorithmic targeting enabled by contemporary digital platforms allows local retailers to present highly personalized promotional stimuli directly to consumers who have demonstrated prior interest or localized intent, thereby significantly reducing the cognitive friction associated with the decision-making process and dramatically accelerating the transition from digital discovery to economic transaction. The analytical confirmation of the complex mediating role of customer satisfaction provides perhaps the most crucial theoretical contribution of this investigation. The significant indirect effect established through the variance accounted for metric proves that the mere application of digital marketing strategies is structurally insufficient to guarantee sustained commercial success or long-term behavioral shifts. Instead, the ultimate efficacy of these digital interventions is fundamentally contingent upon the qualitative nature of the digital interaction itself. When retail enterprises in East Gilan successfully utilize digital channels to provide responsive customer service, transparent product information, and seamless pre-purchase communication, they cultivate a profound state of digital customer satisfaction. It is this underlying satisfaction, functioning as a critical psychological mediator, that ultimately transforms a transient digital interaction into a loyal, recurring purchasing behavior. The validation of the moderation and integration hypotheses further complexifies this landscape, illustrating that the modern East Gilan consumer strategically utilizes peer-to-peer electronic word-of-mouth and user-generated content as a primary heuristic for risk mitigation. In a market where physical inspection of goods may be preceded or entirely replaced by digital evaluation, the perceived credibility of a retail enterprise is heavily dependent on the decentralized consensus of the digital community. Consequently, retail operations that fail to integrate seamless digital evaluation tools and mobile-optimized interfaces face a severe competitive disadvantage, as they directly contradict the hybridized, digitally mediated purchasing trajectories expected by the contemporary regional demographic.

VI. **Conclusion**

This comprehensive academic investigation has systematically delineated the transformative role of digital marketing strategies in dictating the contours of consumer purchasing behavior within the vibrant and economically heterogeneous retail sector of the East Gilan province. Driven by the unprecedented proliferation of digital connectivity and mobile internet access across regional populations, traditional commercial paradigms have been irrevocably disrupted, compelling localized retail operations to rapidly assimilate sophisticated digital architectures to maintain competitive viability. Through a rigorous quantitative methodology and advanced structural equation modeling, this research has successfully quantified the multidimensional impact of social media engagement, targeted programmatic advertising, and electronic word-of-mouth on the cognitive and behavioral trajectories of the regional consumer. The empirical evidence irrefutably confirms that digital marketing functions as a continuous, pervasive force that shapes consumer intent from the initial stages of latent brand discovery to the final execution of the economic transaction. Moving beyond simple exposure metrics, the study has illuminated the indispensable mediating role of customer satisfaction, emphasizing that sustainable commercial growth in the digital era is predicated upon building trust, ensuring seamless digital experiences, and fostering responsive online environments. For the retail business community in East Gilan, the implications are profound and highly actionable. To capitalize on these empirical insights, local enterprise owners and regional marketing strategists must abandon rudimentary, ad-hoc digital practices in favor of cohesive, omnichannel marketing ecosystems. This necessitates a strategic reallocation of resources toward mobile platform optimization, the systematic cultivation of positive user-generated content, and the implementation of data-driven targeting methodologies that respect and leverage the unique socio-cultural dynamics of the regional market. While this study provides a robust foundational analysis of the 2025 digital landscape in East Gilan, acknowledging certain limitations is essential for contextualizing the findings. The cross-sectional nature of the data collection captures a specific temporal snapshot of consumer behavior, which inherently limits the ability to model long-term longitudinal shifts in digital adaptation. Furthermore, while the localized focus on East Gilan provides deep regional insights, it may constrain the immediate generalizability of the statistical path coefficients to vastly different metropolitan or international socio-economic environments. Future academic research should therefore strive to deploy longitudinal methodologies to track the evolutionary trajectory of digital consumerism over time, while simultaneously incorporating qualitative, phenomenological approaches to capture the deeper emotional and psychological nuances that drive digital brand loyalty. Ultimately, the survival and prosperity of retail enterprises in this modern era are unequivocally bound to their capacity to continuously adapt, innovate, and strategically align their operations with the ever-evolving digital behaviors of their localized consumer base.

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