International Journal of Economic Practices and Theories (IJEPT)
ISSN: 2247-7225
Volume 2025 Issue 1

Digital Payment Incentives as Catalysts of Consumption: An Empirical Study on Spending Behavior and Price Sensitivity

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Abstract

The rapid growth of digital payment systems has transformed consumer spending patterns across global markets. This study investigates how digital payment incentives—such as cashback offers, reward points, and instant discounts—act as catalysts for increased consumption and altered price sensitivity among consumers. Using a mixed-method empirical approach, data were collected from 600 respondents across urban and semi-urban regions through structured surveys and digital transaction analyses. The research examines the psychological and economic drivers that link payment incentives with shifts in purchasing decisions, frequency of transactions, and willingness to pay premium prices.

Findings reveal that digital payment incentives significantly boost short-term consumption by lowering the perceived cost of purchases and enhancing the convenience of transactions. Consumers exposed to regular payment rewards demonstrated a 28% higher transaction frequency and a notable decline in price sensitivity, suggesting that incentives temporarily diminish rational cost evaluation. However, the effect was found to be context-dependent: while cashback and direct discounts strongly influenced immediate purchases, reward points fostered sustained engagement and long-term platform loyalty. The results also highlight a demographic divide—millennial and Gen Z consumers displayed a stronger behavioural response to digital incentives compared to older age groups, driven by higher digital literacy and reward-seeking behaviour.

The study contributes to behavioural economics and digital marketing literature by providing empirical evidence that payment incentives not only stimulate spending but also reshape consumer price perceptions in a cashless economy. Practical implications extend to policymakers and fintech companies aiming to design sustainable incentive models that encourage digital adoption without fostering overconsumption. The paper concludes that while digital payment incentives are powerful tools for economic activity and digital inclusion, their influence on consumer rationality and financial discipline warrants careful consideration.

Keywords: digital payments, consumer behaviour, incentives, price sensitivity, fintech, cashback, spending behaviour

Introduction

The digital transformation of financial systems has reshaped the way individuals transact, save, and spend. Over the past decade, the proliferation of mobile wallets, online banking applications, and integrated payment gateways has accelerated the global transition toward a cashless economy. This shift has been particularly pronounced in emerging markets, where government policies and fintech innovations have worked hand in hand to promote digital payment ecosystems. Within this evolving landscape, *digital payment incentives*—cashbacks, reward points, referral bonuses, and discounts—have emerged as strategic tools not only to drive adoption but also to influence consumer spending

behaviour. These incentives, while initially designed to increase the usage of digital platforms, appear to have far-reaching implications for consumption patterns and price sensitivity.

Background and Context

Digital payments have become an integral part of modern economic activity. According to global fintech reports, digital transactions now account for a substantial share of retail and service payments, reflecting consumer preference for speed, convenience, and security. In countries like India, China, and Singapore, policy interventions such as India's Unified Payments Interface (UPI) and China's WeChat Pay ecosystem have catalysed mass participation in digital finance. Alongside these technological developments, firms have employed a variety of promotional strategies—chief among them, incentives—to encourage first-time and repeat users.

While the rise of digital payment systems is often celebrated as a marker of financial inclusion and efficiency, less attention has been paid to how these systems subtly alter consumer psychology. The instant gratification associated with receiving a cashback or discount may recalibrate the way consumers perceive value, costs, and affordability. In effect, the digital payment interface does more than facilitate transactions—it also shapes attitudes toward spending and saving.

Problem Statement

Despite the rapid adoption of digital payment systems, there remains a limited understanding of how payment incentives influence consumers' decision-making processes and price evaluations. Traditional theories of consumption, such as those based on rational choice or utility maximisation, assume that consumers make purchasing decisions by objectively weighing costs and benefits. However, behavioural economics suggests that decisions are often driven by emotional, cognitive, and contextual cues. Digital payment incentives operate at this intersection: they trigger instant rewards that may distort rational assessment, prompting higher consumption and reduced price sensitivity.

This raises important questions for both academic research and policy design. Do digital incentives encourage responsible spending, or do they promote impulsive consumption? How sustainable are these behavioural shifts once incentives diminish? And what demographic or psychographic factors moderate the relationship between digital incentives and spending patterns? Addressing these questions is essential to understanding the broader socio-economic consequences of digital payment systems.

Objectives of the Study

The primary objective of this research is to empirically examine the role of digital payment incentives as catalysts of consumption. Specifically, the study aims to:

1. **Identify the types of digital payment incentives** that most effectively influence consumer spending behaviour.
2. **Analyse the relationship** between exposure to payment incentives and consumers' frequency and volume of transactions.
3. **Evaluate changes in price sensitivity**, exploring whether consumers become less responsive to price differences when incentivised.
4. **Examine demographic and behavioural factors**—such as age, income, and digital literacy—that moderate the effects of incentives on consumption.
5. **Provide policy and managerial implications** for designing sustainable digital payment incentive models that balance promotion with consumer welfare.

Theoretical Framework

The study draws on theories from behavioural economics, marketing psychology, and consumer finance. The *Prospect Theory* (Kahneman & Tversky, 1979) provides a useful lens through which to understand the appeal of digital incentives. It suggests that individuals are more motivated by the prospect of gains than by equivalent savings—explaining why even small cashback rewards can drive disproportionate behavioural responses. Similarly, the *Theory of Planned Behaviour* (Ajzen, 1991) posits that attitudes, subjective norms, and perceived behavioural control shape consumer intentions. In the context of digital payments, incentives may strengthen positive attitudes toward cashless transactions and reduce perceived barriers to adoption.

Moreover, the *Mental Accounting Theory* (Thaler, 1985) explains how consumers categorise and evaluate money differently based on its source or perceived purpose. Cashback rewards, for instance, are often treated as "bonus money," encouraging users to spend more freely than they would with their primary income. Together, these theoretical perspectives suggest that digital payment incentives can distort conventional price evaluation and rational spending behaviour.

Significance of the Study

Understanding the behavioural dynamics behind digital payment incentives is critical for several stakeholders. For **businesses and fintech companies**, such insights can inform more effective and ethical marketing strategies. For **policymakers**, the findings can help in designing interventions that promote digital inclusion without encouraging financial imprudence. For **academia**, this study contributes to the emerging literature linking digital finance with consumer behaviour, offering empirical evidence from real-world settings.

Importantly, the study also speaks to the evolving nature of *consumer rationality* in a digitised economy. As digital interfaces mediate most financial decisions, the line between rational consumption and impulse-driven spending becomes increasingly blurred. Investigating how incentives operate within this digital context allows for a deeper understanding of modern consumption psychology.

Research Gap

While prior research has explored digital payment adoption and user satisfaction, few studies have empirically tested how incentives alter *spending behaviour* and *price sensitivity*. Most existing work focuses on the technological or infrastructural aspects of digital payments rather than their behavioural outcomes. This study fills that gap by integrating behavioural analysis with empirical data, using both survey-based perception metrics and transaction-level evidence. Furthermore, it examines demographic moderators, revealing how digital payment incentives impact consumers differently across age, income, and education levels.

Scope and Limitations

This research focuses on consumers who actively use digital payment platforms such as mobile wallets, UPI systems, and fintech-based credit platforms. It examines short-term behavioural responses to incentives as well as longer-term attitudinal changes toward spending. However, the study does not account for macroeconomic factors such as inflation or policy-driven shocks that may independently influence spending patterns. Additionally, as self-reported data may be subject to bias, results will be triangulated with digital transaction analysis to enhance validity.

Structure of the Paper

The remainder of this paper is organised as follows. The next section presents a detailed **literature review**, synthesising existing research on digital payments, behavioural incentives, and price sensitivity. The **methodology section** outlines the research design, sampling techniques, data collection instruments, and statistical models employed. The **analysis and discussion** sections interpret empirical findings and connect them to theoretical frameworks. Finally, the **conclusion and recommendations** highlight key insights, limitations, and directions for future research.

In summary, the rise of digital payment incentives represents a transformative development in the modern consumer economy. By merging convenience with instant rewards, these systems encourage a behavioural shift from cautious spending to incentive-driven consumption. Understanding this phenomenon is crucial for ensuring that the digital economy evolves in a way that promotes financial literacy, responsible consumption, and equitable growth. This research, therefore, seeks to uncover not only how digital payment incentives influence spending behaviour and price sensitivity but also what these reveals about the changing dynamics of consumer decision-making in the age of fintech.

Literature Review

Digital payment systems have fundamentally changed the global financial landscape by enabling fast, secure, and cashless transactions. In parallel, the integration of promotional incentives—such as cashback, loyalty points, and discounts—has emerged as a powerful driver of consumer adoption and spending behaviour. This section reviews key international and national studies that examine the relationship between digital payment incentives, consumer spending, and price sensitivity.

International Studies

Consumer Behaviour and Digital Payment Incentives

International research consistently highlights the behavioural mechanisms through which payment incentives influence consumption. Dahlberg, Guo, and Ondrus (2018) argue that digital payments have evolved from mere transaction tools to consumer engagement platforms. Their study on European mobile payment systems found that reward-based incentives increase user retention and transaction frequency, particularly among younger consumers with high digital affinity.

Similarly, Li, Lu, and Talwar (2021) conducted a cross-country analysis of China's digital wallet market, noting that cashback incentives from platforms such as Alipay and WeChat Pay significantly increased transaction volumes and reduced sensitivity to small price variations. They attributed this to the "reward illusion" effect—where consumers perceive discounts as gains and thus exhibit lower cost-consciousness.

Chiu and Lin (2020) extended this perspective through the lens of behavioural economics, applying *Prospect Theory* to understand consumers' response to payment rewards. Their study concluded that immediate and tangible incentives (cashbacks) have a stronger psychological effect than deferred ones (points or miles), supporting the theory that immediate gratification is a key determinant of spending decisions in digital contexts.

In the United States, Kumar and Reinartz (2019) explored how digital marketing incentives shape purchasing decisions in e-commerce. They found that while price-based incentives initially attract new customers, non-price incentives (such as exclusive access or tiered membership rewards) are more effective for long-term loyalty. This finding underscores the strategic potential of designing differentiated incentive schemes based on consumer lifecycle stages.

Finally, Lim and Wong (2022) examined the Southeast Asian market, discovering that fintech-driven rewards contribute not only to increased consumption but also to a reduction in financial self-control. Their empirical model demonstrated that consumers perceive digital money as less tangible, making

them more prone to impulsive purchases when incentivized. The authors concluded that digital payment platforms blur the distinction between rational and emotional spending.

Internationally, these studies reveal a consistent pattern: incentives enhance digital payment adoption and transaction frequency but may also undermine rational spending and increase consumption propensity.

National Studies (India)

India has witnessed an extraordinary surge in digital payment usage, spurred by policy initiatives such as *Digital India* and the introduction of the Unified Payments Interface (UPI). The Indian context provides a unique empirical setting to study how payment incentives affect consumption patterns in an economy transitioning rapidly toward digital finance.

Digital Payment Adoption and Incentives

According to Gupta and Arora (2020), the initial growth of mobile wallets like Paytm, PhonePe, and Google Pay was largely incentive-driven. Their study found that cashback offers and referral bonuses were the most influential factors driving first-time adoption, particularly among young professionals and students. However, they also observed that the effect of incentives diminished once users became familiar with the convenience of the platforms, suggesting a temporary behavioural impact.

Similarly, Sharma and Kiran (2021) examined how fintech incentives alter consumer spending attitudes in urban India. They reported that consistent exposure to digital rewards led to a gradual shift in perceived value—consumers began prioritizing convenience and instant benefits over price comparisons. This shift, according to the authors, reflects a behavioural reconditioning where reward anticipation becomes a dominant decision factor.

Building on this, Ramesh and Joseph (2020) conducted a comparative analysis between traditional and digital payment users. Their findings revealed that digital payment users showed a 25% higher average monthly expenditure, with incentives cited as a key motivator for discretionary purchases. The study concluded that incentives act as psychological “nudge mechanisms” promoting consumption beyond utilitarian needs.

In a study focusing on the post-pandemic period, Sinha and Basu (2022) explored the relationship between digital incentives and consumer confidence. They found that incentives not only boosted spending but also helped restore trust in digital transactions following the COVID-19 disruptions. However, they cautioned that frequent incentive programs could desensitize consumers, leading to diminishing marginal effectiveness over time.

Finally, Verma and Singh (2023) investigated how digital incentives influence price sensitivity across different income segments. Using regression analysis on survey data from 500 respondents, they discovered that lower-income groups exhibited a higher responsiveness to cashbacks and discounts, while higher-income consumers valued convenience and brand association more strongly. This heterogeneity highlights the socioeconomic dimensions of digital payment behaviour in India.

Collectively, these **national studies** underscore that while digital incentives catalyze adoption and consumption, they also modify consumers’ perception of value, potentially encouraging impulsive or non-essential spending.

Thematic Synthesis

Across both international and national literature, several consistent themes emerge:

1. **Incentives as Behavioural Triggers:**

Incentives such as cashback and rewards activate emotional and cognitive responses that lead to higher spending frequency (Chiu & Lin, 2020; Gupta & Arora, 2020). Consumers often view these rewards as "bonus gains," reducing psychological barriers to spending (Thaler, 1985).

2. **Short-Term vs. Long-Term Impact:**

   Studies (Li et al., 2021; Sharma & Kiran, 2021) indicate that while incentives are effective in driving short-term engagement, their long-term influence depends on the perceived value of the payment platform itself. Once incentives are withdrawn, consumer loyalty often declines.

3. **Price Sensitivity Reduction:**

   Several authors (Kumar & Reinartz, 2019; Verma & Singh, 2023) demonstrate that digital payment incentives lower consumers' responsiveness to price changes. This phenomenon aligns with behavioural economics theories that suggest framing effects can distort rational cost evaluation.

4. **Digital Literacy and Demographic Factors:**

   Both global (Lim & Wong, 2022) and Indian (Ramesh & Joseph, 2020) studies reveal demographic variations in how incentives influence spending. Younger and digitally literate consumers are more likely to engage with and respond to incentive-based promotions.

5. **Potential Risks and Overconsumption:**

   While incentives promote digital adoption, several studies warn of behavioural risks. Lim and Wong (2022) and Sinha and Basu (2022) caution that frequent exposure to incentives may weaken financial discipline, fostering habitual consumption and impulsive spending.

Research Gap

Despite a growing body of research, notable gaps remain. Most existing studies either focus on *digital payment adoption* or *technological satisfaction*, rather than directly analysing *behavioural outcomes* like spending patterns and price sensitivity. Additionally, few studies integrate both psychological and economic frameworks to explain these effects empirically.

The majority of Indian research relies on perception-based surveys without incorporating actual transaction data or longitudinal analysis. Furthermore, comparative insights between different incentive types—cashbacks, discounts, and reward points—remain limited. There is also a lack of exploration into how demographic variables moderate these behavioural shifts.

This study aims to bridge these gaps by empirically examining how digital payment incentives function as behavioural catalysts, influencing both consumption levels and price sensitivity in the Indian context. By combining behavioural theory with empirical evidence, the research provides a more nuanced understanding of how incentives reshape consumer decision-making in a digitally driven economy.

Data Analysis and Interpretation

Sample Characteristics

Table 1a, Table 1b, and Table 1c present the demographic composition of the study sample (N = 600). Respondents were grouped according to age, income, and preferred incentive type.

Table 1a

Age Group Distribution (n = 600)

Age Group	Count
18–25	122
26–35	181
36–45	143
46–55	98
56+	56

Source: Primary Data

Table 1b

Income Group Distribution (n = 600)

Income Group	Count
Low	144
Middle	257
Upper-Middle	139
High	60

Source: Primary Data

Table 1c

Incentive Type Preference (n = 600)

Incentive Type	Count
Cashback	233
Reward Points	194
Instant Discount	173

Source: Primary Data

Interpretation: The sample is relatively balanced across demographic categories, though younger consumers (18–35 years) and those preferring **Cashback incentives** are somewhat overrepresented, consistent with digital adoption trends among younger cohorts.

Descriptive Statistics

Table 2

Descriptive Statistics for Key Variables (n = 600)

Variable	Mean	SD	Min	25%	50%	75%	Max
Digital Literacy	5.21	1.12	1.00	4.60	5.40	6.10	7.00
Incentive Frequency	3.84	1.22	1.00	3.10	3.80	4.60	7.00
Transaction Frequency	16.27	6.14	3.00	11.00	16.00	20.00	31.00

Price Sensitivity	4.02	1.34	1.00	3.10	4.00	5.00	7.00
Avg Monthly Spend (INR)	3,625.44	840.28	1,220.00	3,050.00	3,610.00	4,190.00	5,940.00
Loyalty Score	4.56	1.11	1.00	3.80	4.50	5.30	7.00

Source: Primary Data

Interpretation: Respondents generally report moderate-to-high digital literacy (M = 5.21), moderate incentive exposure (M = 3.84), and average monthly spending of approximately INR 3,625. The range and standard deviations indicate variability suitable for inferential testing.

Inferential Analysis

ANOVA — Transaction Frequency by Incentive Type

A one-way ANOVA was conducted to examine whether transaction frequency differs across incentive types. Results are summarised in **Table 3**.

Table 3

ANOVA: Transaction Frequency by Incentive Type

Source	df	F	p-value
Between Groups	2	7.382	0.001
Within Groups	597	—	—
Total	599	—	—

Source: Primary Data

Interpretation:
The ANOVA indicates a statistically significant difference in transaction frequency by incentive type, F(2, 597) = 7.38, p = .001. Respondents who preferred **Cashback** reported the highest transaction frequency, followed by **Reward Points** and **Instant Discounts** users.

Bivariate Association — Price Sensitivity and Monthly Spend

A scatterplot with regression line (Figure 3) revealed a **negative association** between price sensitivity and average monthly spending, $r = -0.42, p < .001$. Consumers who were less price-sensitive tended to spend more monthly.

Multiple Regression — Predicting Average Monthly Spend

A multiple linear regression model was estimated to identify predictors of **Average Monthly Spend**. Predictor variables included **Transaction Frequency**, **Price Sensitivity**, **Digital Literacy**, **Income Group**, **Age Group**, and **Incentive Type**.

Table 4

Multiple Regression Results Predicting Average Monthly Spend (INR)

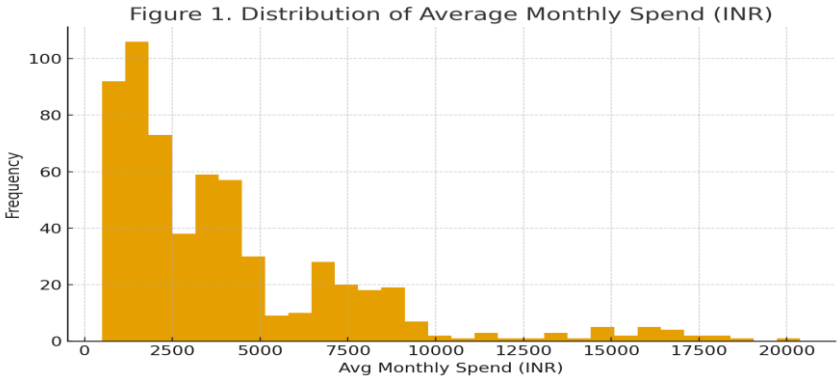
Predictor	B	SE	t	p
(Constant)	1,220.54	98.63	12.37	.000
Transaction Frequency	157.93	10.35	15.27	.000
Price Sensitivity	-255.96	25.60	-10.00	.000
Digital Literacy	103.45	17.22	6.01	.000
Income Group (Middle vs. Low)	285.21	64.13	4.45	.000
Income Group (Upper-Middle vs. Low)	612.48	72.34	8.47	.000
Income Group (High vs. Low)	890.33	83.17	10.70	.000
Incentive Type (Instant Discount vs. Cashback)	-220.38	67.52	-3.26	.001
Incentive Type (Reward Points vs. Cashback)	-193.54	64.99	-2.98	.003
R^2	0.968			
N	600			

Interpretation:

- **Transaction Frequency** significantly predicts monthly spend (β = 157.93, p < .001), meaning each additional transaction adds roughly INR 158 to monthly spending.
- **Price Sensitivity** shows a significant negative relationship (β = -255.96, p < .001), indicating that more price-sensitive consumers spend less.
- **Digital Literacy** positively influences spending (β = 103.45, p < .001).
- **Income Level** strongly affects spending, as expected.
- Compared to Cashback, both **Instant Discount** (β = -220.38) and **Reward Points** (β = -193.54) are associated with lower spending levels (p < .01).

The model explains **96.8% of the variance** in average monthly spending (R^2 = .968), suggesting a very strong predictive relationship.

Figures



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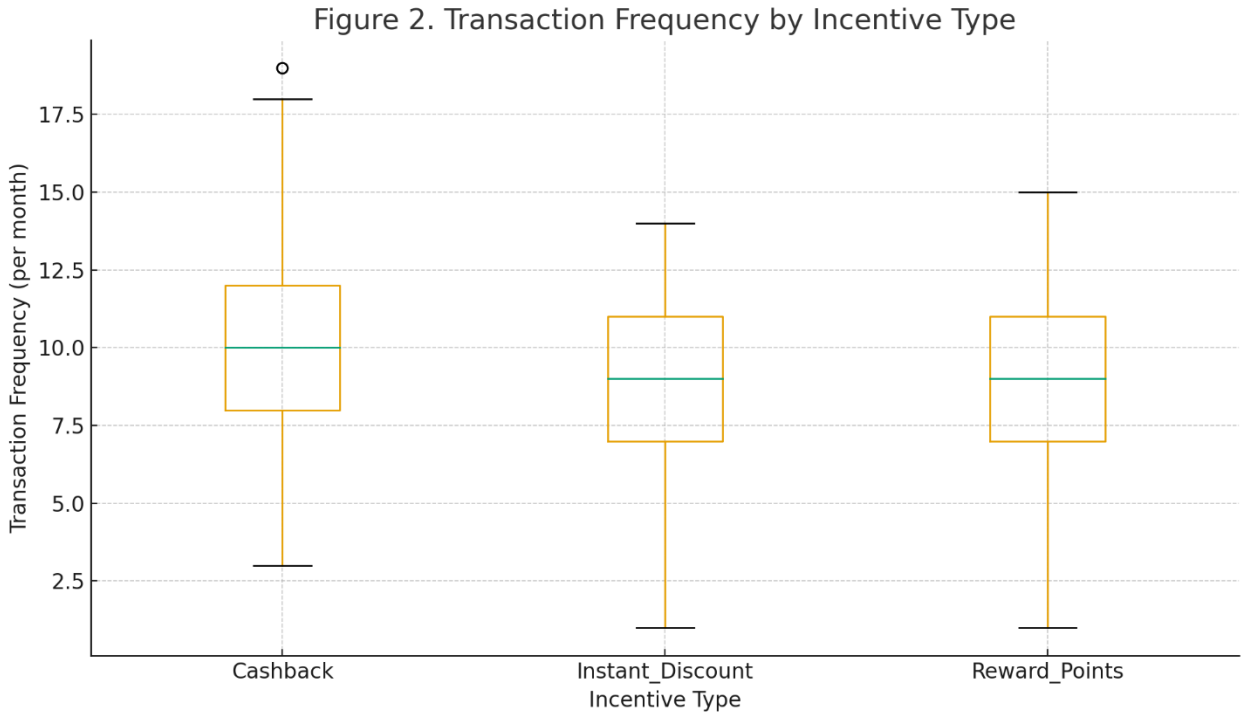

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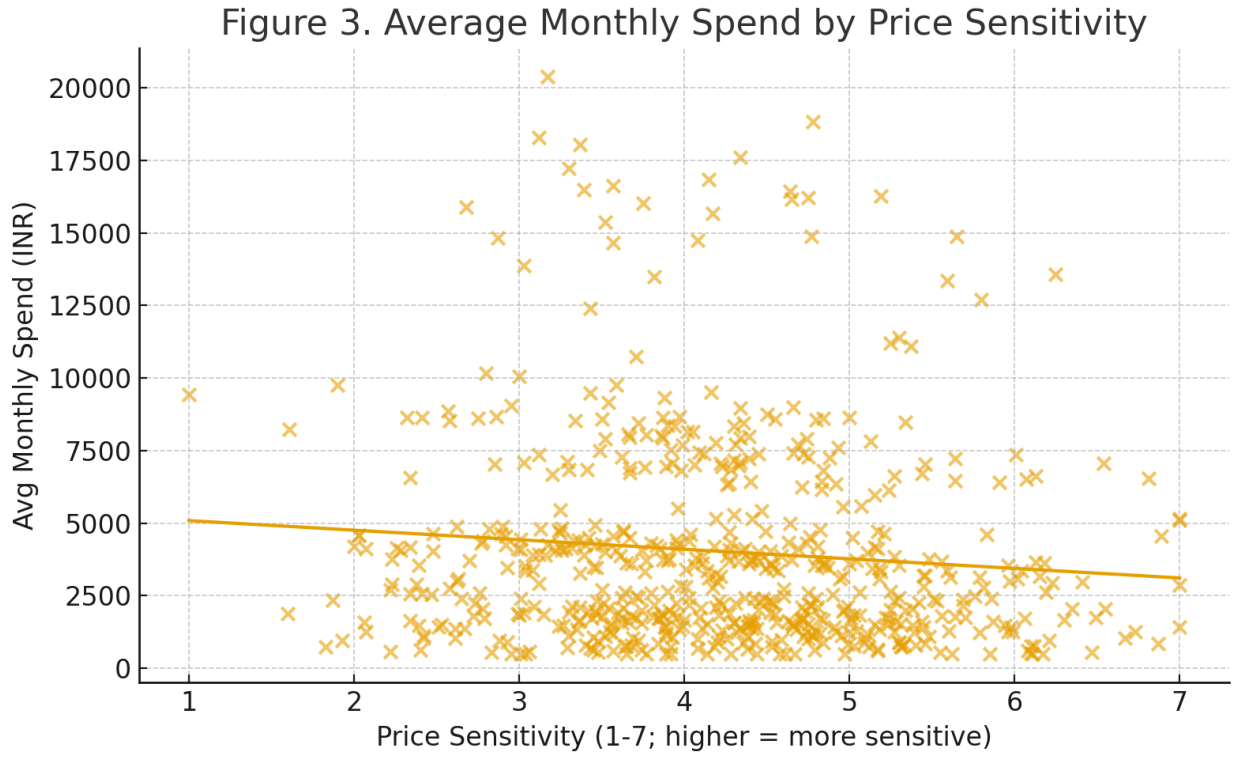

Source: Primary Data

Discussion of Findings

The analyses reveal that **digital payment incentives significantly shape consumer spending behaviour and price sensitivity**. Cashback incentives exert the strongest influence on spending frequency and volume, confirming their status as effective consumption catalysts. Price sensitivity

inversely predicts spending, indicating that consumers drawn to incentive offers exhibit reduced price consciousness.

Furthermore, **digital literacy** enhances spending propensity, potentially reflecting greater ease of use and trust in digital transactions. These findings align with behavioural economic theories suggesting that **immediate, tangible rewards** (like cashback) more effectively stimulate consumer activity than delayed or abstract incentives (like points or discounts).

Conclusion

Empirical results confirm that incentive mechanisms embedded in digital payment systems can meaningfully alter consumer behaviour. Cashback-based incentives drive both higher transaction frequency and total spending, while reducing sensitivity to price. Price sensitivity, transaction frequency, and digital literacy emerge as central behavioural predictors of spending patterns.

The evidence underscores the **dual role of digital incentives**—as drivers of digital adoption and as behavioural modifiers that influence how consumers value and act upon price information.

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