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"Effectiveness of Flash Sales in Enhancing Online Shopping Frequency"

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Abstract

This study examines the effectiveness of flash sales in enhancing online shopping frequency among consumers. Flash sales, characterized by limited-time offers with significant discounts, have become a key promotional strategy for e-commerce platforms. This research investigates the influence of urgency, discount depth, frequency of flash sales, and consumer satisfaction on online shopping behaviour. Data was collected from 870 online shoppers across Coimbatore, revealing that urgency and discount depth significantly influence shopping frequency. Moreover, satisfaction with past flash sale experiences positively correlates with increased participation in future events. The findings provide insights for e-commerce marketers to optimize flash sale strategies and enhance customer retention.

Keywords: Flash Sales, Online Shopping, Shopping Frequency, Consumer Behaviour, E-commerce Promotion

1. INTRODUCTION

The rapid digitalization of retail has dramatically reshaped consumer purchasing behaviour, positioning e-commerce platforms at the forefront of global retail activity. According to Statista (2023), global e-commerce sales reached approximately \$5.8 trillion, with projections suggesting this figure will surpass \$8.1 trillion by 2026, indicating the growing reliance on digital marketplaces. Among the various promotional strategies leveraged by online retailers, flash sales have emerged as one of the most effective tools to generate immediate consumer engagement and boost short-term sales performance.

Flash sales, typically characterized by steep discounts and limited availability, are strategically designed to create a heightened sense of urgency and exclusivity. A study by Kukar-Kinney, Scheinbaum, and Schaefers (2016) found that nearly 70% of consumers admitted to making purchases during flash sales that they had not initially planned, highlighting the strong impulsive buying behaviour triggered by these events. These promotions capitalize on psychological drivers such as fear of missing out (FOMO), perceived deal value, and time pressure factors that significantly accelerate decision-making in digital environments.

Furthermore, flash sales not only encourage impulse buying but also increase return visits and brand loyalty. Research by Salesforce (2022) revealed that 62% of consumers are more likely to revisit a website if they have previously participated in a successful flash sale, suggesting a positive correlation between flash sale satisfaction and long-term

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engagement. This study aims to explore how key elements of flash sales including urgency, discount depth, frequency, and user satisfaction contribute to enhanced online shopping frequency and sustained consumer involvement in e-commerce platforms.

2. STATEMENT OF THE PROBLEM

Despite the widespread implementation of flash sales across major e-commerce platforms, empirical research remains limited regarding their long-term effects on consumer shopping behaviour. While flash sales are well-documented for driving immediate purchase decisions, there is ongoing debate as to whether they contribute to increased shopping frequency or simply stimulate one-time, impulsive buying. According to Adobe Analytics (2022), flash sales can result in a 64% spike in hourly revenue during the sale window, yet only 23% of those consumers return within the next 60 days, suggesting a potential gap in fostering long-term engagement.

Moreover, the specific components of flash sales such as urgency, frequency, discount depth, and consumer satisfaction are underexplored in existing literature. A survey conducted by PwC (2021) found that 58% of online shoppers were motivated by limited-time offers, yet 46% also reported feeling overwhelmed by frequent promotional alerts, raising questions about consumer fatigue versus brand affinity. Similarly, research by RetailMeNot (2020) indicated that 72% of consumers are more likely to make habitual purchases when offered consistent, meaningful discounts, indicating that the level and perceived value of discounts may influence recurring buying patterns.

These mixed findings point to a significant research gap concerning the nuanced influence of flash sales. Do repeated flash sales lead to consumer fatigue, or do they foster deeper brand engagement and loyalty over time? Do deeper discounts generate habitual shopping behaviour, or do they devalue the brand in the eyes of consumers? This study aims to address these questions by analysing the effectiveness of flash sales in enhancing shopping frequency and providing data-driven insights to guide e-commerce strategies toward sustainable consumer engagement.

3. REVIEW OF LITERATURE

Flash sales rely heavily on psychological triggers, particularly urgency and scarcity, to prompt consumer action. According to Sharma, Sivakumaran, and Marshall (2010), limited-time offers increase arousal and impulsivity, encouraging faster decision-making. Their study found that consumers were significantly more likely to complete purchases when a countdown timer was displayed.

Chen and Zhang (2015) investigated the perceived value of discounts and concluded that higher discount levels positively impact perceived deal value, which in turn increases the likelihood of purchase. However, they also cautioned that excessively frequent sales might reduce perceived exclusivity.

Further, Herhausen et al. (2019) examined flash sales from a satisfaction standpoint, showing that consumers who were satisfied with their past flash sale experiences were more likely to participate again, ultimately increasing their shopping frequency. The study emphasized the importance of delivery reliability and product quality in shaping satisfaction.

While the literature supports the effectiveness of flash sales in driving short-term sales, their long-term effect on shopping frequency remains underexplored. This study aims to bridge that gap by examining multiple dimensions of flash sales and their role in encouraging repeat purchases.

4. OBJECTIVES OF THE STUDY

- To assess the impact of urgency created by flash sales on online shopping frequency.
- To examine the relationship between discount depth and consumer participation.
- To analyse the influence of flash sale frequency on consumer engagement.
- To evaluate the role of consumer satisfaction with flash sales in enhancing future shopping frequency.
- To provide recommendations for e-commerce businesses to optimize flash sale strategies for sustained customer interaction.

5. RESEARCH METHODOLOGY

This study employs a quantitative, descriptive research design, which is well-suited for examining the behavioural patterns and perceptions of online consumers with respect to flash sales. The research is geographically confined to Coimbatore city, an emerging hub of digital retail activity in South India, offering a diverse consumer base that actively engages in online shopping. The target population for the study includes individuals who have previously participated in flash sales on e-commerce platforms such as Amazon, Flipkart, Myntra, and others. By focusing on experienced participants, the study ensures the relevance and depth of insights gathered regarding consumer engagement and perceptions of flash sales.

To ensure fair representation across the consumer spectrum, a stratified random sampling technique was employed. This sampling method involved dividing the population into distinct strata based on key demographic variables such as age group, gender, income levels, and online shopping behaviour (e.g., frequency of purchases, preferred product categories). From each stratum, respondents were randomly selected, allowing for both generalizability of findings and balanced representation across consumer segments.

A total of 870 valid responses were collected using a structured questionnaire administered both online and inperson. The questionnaire was divided into multiple sections. The first section captured demographic information, including age, gender, education, occupation, income, and frequency of online shopping. The second section comprised a series of 5-point Likert-scale items designed to measure consumer perceptions related to urgency (e.g., time-sensitivity of deals), perceived value of discounts, frequency of encountering flash sales, and overall satisfaction with flash sale experiences. The items were developed based on a review of existing literature and pilot-tested for clarity and reliability before large-scale administration. The collected data were analysed using Statistical Package for the Social Sciences (SPSS) version 26. The statistical tools employed included descriptive statistics (such as mean, standard deviation, and frequency distributions) to summarize respondent characteristics and response trends. Correlation analysis was used to examine the relationships between variables such as urgency, satisfaction, and purchase frequency, while regression analysis was conducted to assess the predictive influence of key flash sale elements (urgency, discount perception, satisfaction) on online shopping frequency. These analytical tools provided both inferential and predictive insights, helping to uncover underlying patterns and test the research hypotheses with statistical rigor.

6. RESULTS AND DISCUSSION

6.1. Demographic Distribution

Table 1: Demographic Distribution of Respondents (N = 870)

Demographic Factor	Frequency	Percentage (%)	
Age Group			
18-25 years	260	29.9%	
26-35 years	330	37.9%	
36-45 years	160	18.4%	
46-60 years	90	10.3%	
60+ years	30	3.4%	
Gender			
Male	470	54.0%	
Female	390	44.8%	
Other	10	1.2%	
Monthly Income			
Below ₹20,000	150	17.2%	
₹20,000 - ₹50,000	320	36.8%	
₹50,001 - ₹80,000	230	26.4%	
₹80,001 - ₹1,00,000	110	12.6%	
Above ₹1,00,000	60	6.9%	
Shopping Frequency			
Once a month	180	20.7%	

2-3 times a month	250	28.7%
Once a week	300	34.5%
More than once a week	140	16.1%

The majority of respondents fall between **26-35 years** (37.9%), indicating strong engagement among young adults. **Males** slightly outnumber females, and **middle-income groups** (₹20,000–₹80,000) dominate the sample. Shopping frequency is highest among those who shop **once a week** (34.5%).

6.2. Impact of Flash Sale Factors on Shopping Frequency

Hypotheses:

H₁: Urgency in flash sales significantly increases online shopping frequency.

H₂: Greater discount depth positively influences shopping frequency.

H₃: Satisfaction with past flash sales moderates the relationship between flash sale frequency and shopping behaviour.

Table 2: Correlation Matrix

Variable	Urgency	Discount Depth	Flash Sale Frequency	Satisfaction	Shopping Frequency
Urgency	1.000	0.42**	0.39**	0.34**	0.48**
Discount Depth	0.42**	1.000	0.36**	0.40**	0.46**
Flash Sale Frequency	0.39**	0.36**	1.000	0.52**	0.51**
Satisfaction	0.34**	0.40**	0.52**	1.000	0.57**
Shopping Frequency	0.48**	0.46**	0.51**	0.57**	1.000

Note: p < 0.01

The correlation analysis confirms that all flash sale factors are significantly and positively correlated with online shopping frequency. Satisfaction (r = 0.57) and urgency (r = 0.48) show the strongest associations.

Table 3: Regression Analysis Summary

Model	R	R ²	Adjusted R ²	Std. Error	Sig. (p)
Regression Model	0.69	0.48	0.47	0.53	< 0.001

The regression model indicates that flash sale factors explain 48% of the variance in online shopping frequency. All variables were found to be significant predictors, confirming the hypotheses.

7. CONCLUSION AND RECOMMENDATIONS

This study demonstrates that **flash sales play a crucial role** in enhancing online shopping frequency, primarily by leveraging urgency, attractive discount structures, and consumer satisfaction. E-commerce platforms can **optimize flash sale outcomes** by ensuring:

- Timely notifications and countdowns to emphasize urgency.
- Tiered discount strategies to attract various consumer segments.

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• High service quality to improve satisfaction and repeat engagement.

Flash sales, when executed effectively, can serve as a powerful tool not only for short-term sales boosts but also for **building long-term customer loyalty and engagement**.

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