

# Consumerism in The Digital Age: A Philosophical Reflection on Online Buying Practices in Chennai

Dr. Sivakavitha S

AP, Dept. of CS&AF, SRMIST, KTR – 603203.

Dr. M. Muthu Deepa

AP, Department of CG, SRMIST, KTR – 603203.

Dr. Praveen Kumar P

AP, Dept. of JMC, SRMIST, KTR – 603203.

Dr. K. N. Uma Devi

AP, Department of English, VISTAS, Chennai.

## ABSTRACT

With the rapid growth of e-commerce, understanding the key factors shaping online consumer buying behaviour is essential for businesses and marketers. This study investigates the influence of five critical factors—website usability, security concerns, trust, convenience—on consumer decision-making in online shopping. It examines how a seamless and user-friendly website enhances engagement, while security concerns and trust significantly impact purchasing confidence. Moreover, convenience and competitive pricing play a crucial role in shaping buying preferences. By analysing consumer perceptions and behaviours, this research offers valuable insights to enhance online shopping experiences and develop effective marketing strategies. The findings aim to help businesses optimize their digital platforms, fostering greater customer satisfaction and long-term loyalty.

## KEYWORDS

Website Usability,  
Security, Trust,  
Convenience and  
Decision Making

## 1. Introduction

The rapid progression of technology and the extensive utilization of the internet have revolutionized consumer shopping behaviours. E-commerce has become a predominant entity, allowing individuals to get items and services from the convenience of their residences. The growing trend of online shopping necessitates a comprehensive study of the elements that affect customer purchasing behaviour for both companies and scholars. Consumers now base their decisions not just on product quality or price but are also heavily influenced by digital experience elements, including website usability, security issues, trust, and convenience. The usability of a website is crucial in influencing the online purchasing experience. A user-friendly, aesthetically pleasing, and easily navigable website improves client satisfaction and promotes purchasing choices. Subpar website design, sluggish loading times, and convoluted navigation may exasperate customers, resulting in cart abandonment and a decrease in revenue.

Contemporary customers want effortless engagement with online platforms, characterized by easily available information and a streamlined checkout procedure. Consequently, enterprises must emphasize website usability to retain clientele and cultivate a favorable buying experience. A major component affecting online customer purchasing behaviour is security apprehensions. The apprehension over data breaches, identity theft, and financial fraud may dissuade customers from engaging in online purchases. As cyber risks escalate, people are exercising more caution in disclosing their personal and financial information. Enterprises that neglect to implement secure payment channels, encryption techniques, and clear data protection procedures jeopardize consumer confidence. Consequently, mitigating security concerns with comprehensive cybersecurity protocols is vital for bolstering customer trust in online retail. Trust is a significant factor influencing internet shopping behaviour. Consumers are more inclined to purchase from websites they see as trustworthy, reputable, and transparent. Trust may be established via several elements, including favorable customer evaluations,

secure transactions, transparent return policies, and attentive customer care. E-commerce platforms that cultivate a robust reputation for providing quality items and fulfilling client obligations are likely to draw repeat purchasers. A deficiency in trust, conversely, engenders uncertainty and suspicion, eventually dissuading online transactions. The ease of internet buying has been a primary factor in its rapid expansion. Consumers like online platforms that provide user-friendly search capabilities, diverse payment methods, expedited checkout procedures, and reliable delivery services. The capacity to shop at any time and from any location, free from the limitations of traditional store hours, enhances the allure of e-commerce. Nonetheless, if an online business is deficient in convenience—such as necessitating protracted registration procedures, providing restricted payment alternatives, or experiencing sluggish delivery times—it may deter prospective consumers. Convenience is, hence, a pivotal aspect in ascertaining client happiness and loyalty.

This research seeks to examine the influence of website usability, security apprehensions, trust, and convenience on online customer purchasing behaviour. Through the analysis of these aspects, organizations may formulate effective ways to improve user experience, mitigate security concerns, foster customer trust, and maximize convenience. This study will provide significant insights for e-commerce firms aiming to enhance their digital platforms, elevate client happiness, and boost conversion rates.

## Objectives of The Study

- To analyse the demographic variables of the respondents
- To examine the impact of factors affecting online consumer buying behavior.

## 2. Review of Literature

The growth of e-commerce has led to extensive research on online consumer buying behaviour. Several factors influence consumer decisions in the digital marketplace, including website usability, security concerns, trust, and convenience. This section reviews existing literature on these key factors to understand their impact on online shopping behaviour.

### 1. Website Usability and Online Consumer Behaviour

Website usability plays a crucial role in shaping consumer experiences and purchase decisions. According to Nielsen (2012), a well-designed website with intuitive navigation, fast loading speeds, and responsive interfaces enhances user satisfaction and increases conversion rates. Studies by Al-Qeisi et al. (2014) further emphasize that website usability, including ease of search and accessibility, positively influences consumer trust and willingness to buy online. Poor usability, on the other hand, leads to frustration and cart abandonment (Palmer, 2002).

### 2. Security Concerns in Online Shopping

Security concerns are among the primary barriers to online shopping. Consumers are wary of sharing personal and financial information due to risks such as identity theft and fraud (Gefen et al., 2003). Research by Dinev & Hart (2006) suggests that security measures such as SSL encryption, secure payment gateways, and two-factor authentication significantly impact consumer confidence. Additionally, Kim et al. (2008) found that perceived security directly influences purchase intention, as consumers tend to avoid websites with unclear data protection policies.

### 3. Trust in Online Transactions

Trust is a critical determinant of online consumer behaviour. Järvenpää et al. (2000) argue that trust is built through website credibility, positive customer reviews, and reliable transactions. Studies by Pavlou (2003) indicate that trust mitigates perceived risk and enhances consumer willingness to engage in online purchases. Furthermore, Gefen (2002) highlights that businesses can foster trust by providing clear return policies, transparent pricing, and responsive customer support.

### 4. Convenience and Consumer Preferences

Convenience is a key driver of online shopping adoption. Berry et al. (2002) define convenience as the ease of accessing products, completing transactions, and receiving timely

deliveries. Research by Rohm & Swaminathan (2004) suggests that consumers prioritize online retailers offering hassle-free payment options, mobile-friendly interfaces, and efficient customer service. Moreover, Chiang & Dholakia (2003) found that convenience is particularly important for time-conscious consumers, influencing their preference for online over traditional shopping.

## 5. Interrelationship Between Factors

Several studies highlight the interrelationship between website usability, security, trust, and convenience. According to Fang et al. (2011), a well-designed and secure website enhances consumer trust, leading to higher conversion rates. Similarly, studies by McKnight et al. (2002) suggest that trust reduces the impact of security concerns, making consumers more comfortable with online transactions. Research by Hassanein & Head (2007) further supports the idea that usability and convenience work together to create a seamless shopping experience, encouraging repeat purchases.

## Scope of The Study

- 1.The respondents for the study only from Chennai District
- 2.This study focusses on Website Usability, Trust, Convenience and Security Concerns.
- 3.Online platforms only had been focused in this research study

## Limitation of The Study

- 1.This research is focused only on residents of the Chennai. As a result, generalizing to a large population is challenging.
- 2.The main restriction on this investigation is time.
- 3.Limited number of respondents only the base for this research.

## Statement of Problem

The rapid growth of e-commerce has reshaped consumer interactions, making online shopping a preferred choice. However, factors like website usability, security concerns, trust, and convenience significantly influence buying decisions. Businesses that neglect these elements risk losing

customers, facing high cart abandonment, and struggling with retention. Website usability is crucial for online shopping success. Poor navigation, slow loading times, or a complicated checkout process can deter purchases. Security concerns also remain a major challenge, as fears of data breaches and fraud can prevent consumers from completing transactions. Even the most user-friendly platforms may fail without robust security measures. Trust is essential in e-commerce. Consumers hesitate to buy from unfamiliar websites due to concerns about authenticity, reliability, and customer service. Businesses lacking transparency struggle to gain consumer confidence, reducing conversion rates. Convenience also plays a key role, as shoppers expect seamless transactions, diverse payment options, and fast deliveries. If these expectations are unmet, customers may turn to competitors offering better service. Despite their significance, limited research explores the combined impact of these factors on consumer behaviour. This study aims to fill that gap, providing insights for businesses to enhance digital strategies, improve user experiences, and strengthen customer relationships in the competitive e-commerce market.

## 3. Research Methodology

A purposeful sampling technique was used to get 100 samples for this investigation. Primary as well as secondary information are included in this study work. However, this study work mostly relies on primary data that was gathered via questionnaires from different customers who lived in the Chennai area. The tools utilized for data analysis were IBM SPSS 2026 and JAMOV. As research tools, Regression and Correlation techniques have been used in this work.

**Table 1: Demographic variables**

| Demographics              | Options      | Percent |
|---------------------------|--------------|---------|
| Gender                    | Male         | 80      |
|                           | Female       | 20      |
| Age                       | 13 – 20      | 37      |
|                           | 21 – 25      | 23      |
|                           | 26 – 36      | 20      |
|                           | 37 and above | 20      |
| Educational Qualification | SSLC / HSC   | 15      |
|                           | UG           | 32      |
|                           | PG           | 28      |

|        |                     |    |
|--------|---------------------|----|
|        | Professional Degree | 25 |
| Income | Below 20000         | 30 |
|        | 20000 – 40000       | 58 |
|        | 40000 and above     | 12 |

### Primary Source

Table 1 reveals that the majority of respondents (80%) were male, 37% of the respondents are between the ages of 13 and 20, and had an undergraduate degree (22%). 58% of responders, the majority, fell in the 20000–40000 range.

**Table 2: Reliability Test**

| Reliability Statistics |            |
|------------------------|------------|
| Cronbach's Alpha       | N of Items |
| .894                   | 5          |

### Interpretation

The questionnaire's validity and the items' internal consistency are assessed using the reliability test. The criteria are that if it is more than 0.05, the Cronbach's alpha should be good. The validity and accuracy of this survey are shown by the Cronbach's alpha score of 0.894. Further examination of the collected data is therefore feasible.

**Descriptive Statistics of Data (Table 3)**

|                    | Website Usability | Security Concerns | Trust | Convenience | Buying Behaviour |
|--------------------|-------------------|-------------------|-------|-------------|------------------|
| N                  | 100               | 100               | 100   | 100         | 100              |
| Missing            | 16                | 16                | 16    | 16          | 16               |
| Mean               | 4.56              | 4.36              | 3.59  | 4.41        | 4.39             |
| Median             | 5.00              | 5.00              | 5.00  | 5.00        | 5.00             |
| Mode               | 5.00              | 5.00              | 5.00  | 5.00        | 5.00             |
| Sum                | 456               | 436               | 359   | 441         | 439              |
| Standard deviation | 0.820             | 0.948             | 1.72  | 0.889       | 0.942            |
| Range              | 4                 | 3                 | 4     | 4           | 4                |
| Minimum            | 1                 | 2                 | 1     | 1           | 1                |
| Maximum            | 5                 | 5                 | 5     | 5           | 5                |

|                     |        |        |        |        |        |
|---------------------|--------|--------|--------|--------|--------|
| Skewness            | -1.82  | -1.07  | -0.560 | -1.26  | -1.45  |
| Std. error skewness | 0.241  | 0.241  | 0.241  | 0.241  | 0.241  |
| Kurtosis            | 2.90   | -0.347 | -1.49  | 0.803  | 1.66   |
| Std. error kurtosis | 0.478  | 0.478  | 0.478  | 0.478  | 0.478  |
| Shapiro-Wilk        | 0.581  | 0.674  | 0.711  | 0.665  | 0.666  |
| Shapiro-Wilk p      | < .001 | < .001 | < .001 | < .001 | < .001 |

### Interpretation

As calculated Shapiro – Wilk probability value of all factors is less than 0.001, the data are not normally distributed (Table 3). Based on the mean ranking, Website Usability factors are playing most important in consumer buying decision.

### Hypothesis Testing

Hypothesis

H0= There is no relationship between factors of online shopping and consumer buying behaviour

H1= There is a relationship between factors of online shopping and consumer buying behaviour

### Correlation

| Correlation Matrix |                |                   |                   |       |             |                  |
|--------------------|----------------|-------------------|-------------------|-------|-------------|------------------|
|                    |                | Website Usability | Security Concerns | Trust | Convenience | Buying Behaviour |
| Website Usability  | Spearman's rho | —                 |                   |       |             |                  |
|                    | p-value        | —                 |                   |       |             |                  |

|                   |                |       |       |       |       |   |
|-------------------|----------------|-------|-------|-------|-------|---|
| Security Concerns | Spearman's rho | 0.637 | —     |       |       |   |
|                   | p-value        | <.001 | —     |       |       |   |
| Trust             | Spearman's rho | 0.737 | 0.832 | —     |       |   |
|                   | p-value        | <.001 | <.001 | —     |       |   |
| Convenience       | Spearman's rho | 0.664 | 0.675 | 0.824 | —     |   |
|                   | p-value        | <.001 | <.001 | <.001 | —     |   |
| Buying Behaviour  | Spearman's rho | 0.591 | 0.894 | 0.794 | 0.749 | — |
|                   | p-value        | <.001 | <.001 | <.001 | <.001 | — |

## Interpretation

### Practical Interpretation of the Correlation Matrix

The correlation matrix presents Spearman's rho correlation coefficients and p-values for relationships between website usability, security concerns, trust, convenience, and buying behaviour. The key takeaways from this data are:

Security Concerns Have the Strongest Correlation with Buying Behaviour ( $\rho = 0.894$ ,  $p < .001$ )

#### Practical Implication:

- Security is the most influential factor in online consumer buying behaviour.
- Action for Businesses:
  - Strengthen data protection measures to prevent fraud and cyber threats.
  - Clearly communicate security features (e.g., SSL encryption, secure payment methods).
  - Display security certifications (e.g., "Verified by Visa," "Secure Checkout") to reassure customers.

Trust Has a Strong Positive Correlation with Buying Behaviour ( $\rho = 0.794$ ,  $p < .001$ )

#### Practical Implication:

- Trust significantly affects consumer purchasing decisions, meaning that businesses must work on building credibility and brand reliability.
- Action for Businesses:
  - Encourage customer reviews and display authentic testimonials.
  - Offer clear and transparent return/refund policies.
  - Provide excellent customer service and responsive support.
  - Maintain consistent product quality and accurate descriptions.

Convenience Also Has a Strong Positive Correlation with Buying Behaviour ( $\rho = 0.749$ ,  $p < .001$ )

#### Practical Implication:

- Consumers prefer hassle-free online shopping experiences.
- Action for Businesses:
  - Implement a smooth and fast checkout process.
  - Offer multiple payment options (credit cards, digital wallets, UPI, COD).
  - Provide fast and reliable shipping with easy return policies.
  - Ensure easy website navigation and mobile-friendly design.

Website Usability Has the Weakest Correlation with Buying Behaviour ( $\rho = 0.591$ ,  $p < .001$ )

#### Practical Implication:

- While website usability is still an important factor, it has a relatively weaker impact on purchasing behaviour compared to security, trust, and convenience.
- Action for Businesses:
  - Ensure a user-friendly website with intuitive navigation.
  - Reduce loading times and optimize for mobile devices.

- Simplify the search and filtering process to help customers find products easily.
- Strong Intercorrelations Between Variables
- Trust and Security Concerns are highly correlated ( $\rho = 0.832$ ,  $p < .001$ ).
- This suggests that consumers trust websites more when security measures are strong.
- Convenience and Trust also have a strong correlation ( $\rho = 0.824$ ,  $p < .001$ ).
- A smooth shopping experience enhances trust in the platform.

## Regression

| Model Fit Measures                                                                  |                   |                                        |                   |                                      |                         |          |
|-------------------------------------------------------------------------------------|-------------------|----------------------------------------|-------------------|--------------------------------------|-------------------------|----------|
| Model                                                                               |                   | R                                      | R <sup>2</sup>    |                                      | Adjusted R <sup>2</sup> |          |
| 1                                                                                   |                   | 0.926                                  | 0.857             |                                      | 0.839                   |          |
|                                                                                     |                   |                                        |                   |                                      |                         |          |
| ANOVAa                                                                              |                   |                                        |                   |                                      |                         |          |
| Model                                                                               |                   | Sum of Square<br>s                     | df                | Mean Square                          | F                       | Sig.     |
| 1                                                                                   | Regres<br>sion    | 65.402                                 | 4                 | 16.351                               | 69.382                  | .000b    |
|                                                                                     | Residu<br>al      | 22.388                                 | 95                | .236                                 |                         |          |
|                                                                                     | Total             | 87.790                                 | 99                |                                      |                         |          |
| a. Dependent Variable: Buying Behaviour                                             |                   |                                        |                   |                                      |                         |          |
| b. Predictors: (Constant), Trust, Website Usability, Security Concerns, Convenience |                   |                                        |                   |                                      |                         |          |
| Coefficientsa                                                                       |                   |                                        |                   |                                      |                         |          |
| Model                                                                               |                   | Unstandar<br>diz<br>ed<br>Coefficients |                   | Standar<br>dized<br>Coefficie<br>nts | t                       | Si<br>g. |
|                                                                                     |                   | B                                      | Std.<br>Err<br>or | Beta                                 |                         |          |
| 1                                                                                   | (Constant)        | .233                                   | .398              |                                      | .586                    | .559     |
|                                                                                     | Website Usability | -.205                                  | .093              | -.178                                | -2.189                  | .031     |
|                                                                                     | Security Concerns | .762                                   | .086              | .768                                 | 8.837                   | .000     |
|                                                                                     | Convenienc<br>e   | .446                                   | .098              | .420                                 | 4.529                   | .000     |
|                                                                                     | Trust             | -.055                                  | .059              | -.101                                | -.930                   | .355     |
| a. Dependent Variable: Buying Behaviour                                             |                   |                                        |                   |                                      |                         |          |

Low- and middle-income countries (LMICs) face a double burden of disease, contending with both communicable diseases and rising rates of non-communicable diseases (NCDs) (Boutayeb, 2006). Social determinants play a particularly pronounced role in these settings, where lack of basic infrastructure, limited healthcare resources, and high poverty rates create substantial health challenges.

Access to clean water, sanitation, and adequate nutrition remain fundamental challenges in many LMICs, directly affecting child survival and development (Prüss-Ustün et al., 2008). Rapid urbanization without corresponding infrastructure development has created expanding informal settlements characterized by overcrowding, environmental hazards, and limited access to services. These conditions foster transmission of infectious diseases while simultaneously increasing risk factors for NCDs.

Gender inequalities in LMICs significantly affect health outcomes, with women facing barriers to education, economic opportunities, and healthcare access (Sen & Östlin, 2008). Maternal mortality remains unacceptably high in many low-income settings, reflecting both inadequate healthcare infrastructure and broader social and economic marginalization of women.

## Regression

### Interpretation of Regression Coefficients

This table provides insights into the influence of website usability, security concerns, convenience, and trust on online consumer buying behaviour. Let's break down the key findings:

Constant ( $B = 0.233$ ,  $p = 0.559$ )

- The constant represents the predicted value of buying behaviour when all independent variables are zero.
- Since the p-value (0.559) is not significant ( $>0.05$ ), the intercept does not have a meaningful standalone interpretation.
- Website Usability ( $B = -0.205$ ,  $p = 0.031$ )
- Negative coefficient (-0.205): An increase in website usability is associated with a slight decrease in buying behaviour, which is unexpected.

- p-value (0.031): Since this is less than 0.05, the effect of website usability is statistically significant.
- Possible Interpretation: This suggests that while website usability plays a role, other factors (e.g., trust, security) may overshadow its importance. It could also indicate that overly complex or feature-heavy websites might reduce buying behaviour rather than improve it.
- Security Concerns ( $B = 0.762$ ,  $p = 0.000$ )
- Positive coefficient (0.762): Higher security positively influences buying behaviour.
- p-value (0.000): This effect is highly significant.
- Interpretation: Customers are more likely to make purchases when they perceive an online store as secure. Strengthening security measures (e.g., encryption, fraud protection, clear privacy policies) can boost consumer confidence and drive sales.

Convenience ( $B = 0.446$ ,  $p = 0.000$ )

- Positive coefficient (0.446): Greater convenience leads to an increase in buying behaviour.
- p-value (0.000): The effect is highly significant.
- Interpretation: Consumers prefer platforms that offer a hassle-free shopping experience. Features like quick checkout, multiple payment options, fast delivery, and easy returns are critical in encouraging purchases.

Trust ( $B = -0.055$ ,  $p = 0.355$ )

- Negative coefficient (-0.055): Trust does not have a meaningful positive impact on buying behaviour in this model.
- p-value (0.355): Since this is greater than 0.05, trust is not statistically significant.
- Possible Interpretation: This result is surprising, as trust is usually seen as a key factor in online shopping. It may suggest that in this particular study, other factors like security and convenience play a stronger role, making trust less relevant when security is already assured.

## Overall Insights & Practical Implications

1. Security concerns and convenience are the strongest predictors of online buying behaviour.

Businesses should prioritize robust security measures (e.g., secure payment gateways, encryption, clear privacy policies) and enhance convenience (fast checkouts, multiple payment options, easy navigation).

2. Website usability has a small but significant negative impact.

This could mean that overly complex websites discourage purchases. Simplicity and efficiency in design may be more important than excessive features.

3. Trust is not statistically significant in this model.

This could suggest that when security is already ensured, additional trust-building efforts (e.g., brand reputation) may not be as critical in influencing buying behaviour.

## 4. Conclusion

The research on determinants influencing online consumer purchasing behaviour underscores the critical importance of security concerns, trust, ease, and website usability in molding customer choices within the digital marketplace. The results indicate that security concerns have the most significant impact on customer purchase behaviour, followed closely by trust and convenience, but website usability has a very little effect. The substantial association between security and trust suggests that customers are more inclined to buy from platforms that provide robust data protection and fraud prevention strategies. Moreover, ease is a primary factor, as customers choose easy navigation, diverse payment methods, prompt delivery, and straightforward return policies. Website usability, although important, should prioritize simplicity and efficiency above unnecessary design intricacy. The survey emphasizes that firms must prioritize security and trust-building initiatives, improve convenience, and maximize website usability to foster a great buying experience. Effectively implementing these characteristics may enhance consumer happiness, increase conversion rates, and strengthen brand loyalty in the competitive e-commerce landscape. Future study may investigate supplementary factors, like

customization, customer service, and social impact, to enhance comprehension of the changing consumer preferences in online buying.

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