Customer Perception and Customer Satisfaction on M-Commerce in India

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Abstract— This study investigates customer perception and satisfaction within India's m-commerce sector, with a focus on applying the Theory of Reasoned Action (TRA) model. By examining key factors such as ease of use, trust, product variety, and service attributes like delivery reliability and customer support, the research aims to provide a comprehensive understanding of consumer behavior. The TRA framework is used to explore how attitudes and subjective norms influence behavioral intentions in adopting m-commerce platforms.A mixed-methods integrating quantitative surveys and qualitative interviews, is employed to capture diverse consumer perspectives across urban, suburban, and rural demographics. The study includes a detailed literature review of 20 relevant works, identifying methodologies and applications of the TRA model to m-commerce. A structured questionnaire design aligned with the TRA framework assesses five key attributes, each evaluated with ten targeted questions. The research objectives include analyzing customer perceptions, evaluating satisfaction levels, identifying challenges, and proposing actionable strategies for enhancing customer loyalty and engagement. The findings offer both theoretical insights into TRA's applicability and practical recommendations for improving India's m-commerce platforms, addressing issues like security, user experience, and service quality. This study contributes to the growing body of knowledge on digital commerce and its role in reshaping the Indian retail landscape.

Keywords— Customer perception, satisfaction of customers, m-commerce, m-shopping applications, e-commerce, trust in m-commerce, secure payment, user experience, variety of products, speed of delivery, customer support, digital retail, purchasing behavior, personalized recommendations, mobile technologies, online shopping trends, India retail market.

I. INTRODUCTION

Mobile commerce (m-commerce) has revolutionized the Indian retail landscape, redefining how consumers interact with products and services. The rapid proliferation of smartphones, combined with the widespread availability of affordable internet connectivity, has created fertile ground for the growth of m-commerce. This digital transformation has provided unprecedented convenience and accessibility for

shoppers, fundamentally altering traditional retail models and consumer behavior.

The growth of m-commerce in India is driven by several factors. The high penetration of smartphones, government initiatives such as the Digital India campaign, and the growing acceptance of digital payment methods, including UPI and e-wallets, have contributed to the increasing adoption of m-commerce platforms. Popular platforms like Flipkart, Amazon, Paytm Mall, and Myntra have capitalized on these trends, offering a range of services, from grocery delivery and fashion shopping to healthcare consultations and financial transactions.

India's diverse demographic profile, encompassing urban professionals, rural entrepreneurs, and tech-savvy millennials, necessitates a nuanced understanding of consumer needs. While urban users may prioritize features like seamless payment gateways, next-day delivery, and personalized recommendations, rural consumers often value affordability, regional language support, and reliable logistics. This diversity presents both opportunities and challenges for m-commerce platforms aiming to enhance customer experiences.

Customer perception and satisfaction are central to the success of m-commerce. Perception is shaped by factors such as ease of use, trust, security, and product variety, while satisfaction is influenced by service quality, delivery reliability, pricing, and after-sales support. Addressing these aspects effectively can drive customer loyalty and foster long-term engagement with m-commerce platforms. However, barriers such as data privacy concerns, technical glitches, logistical inefficiencies, and digital literacy gaps remain significant challenges.

This research explores customer perception and satisfaction in the Indian m-commerce sector through the lens of the Theory of Reasoned Action (TRA) model. The TRA framework, which focuses on attitudes, subjective norms, and behavioral intentions, provides a structured approach to understanding consumer behavior. By applying this model, the study seeks to identify key drivers and inhibitors of m-commerce adoption,

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assess the role of service attributes in shaping satisfaction, and propose actionable strategies to enhance customer experiences.

Through a mixed-methods research approach, this study aims to offer both theoretical insights into the application of TRA in m-commerce and practical recommendations for improving platform features, security measures, and overall service delivery. By addressing the unique needs of India's diverse consumer base, this research contributes to the broader understanding of m-commerce's potential as a catalyst for economic growth and digital inclusion.

II. Literature Review

- 1. **Ghosh, A., & Mukherjee, S.** (2021) in their study on "Cybercrime and Pre-Texting Frauds in India: Analyzing Patterns and Victim Awareness" explored how social engineering tactics are employed in pre-texting scams and the socio-economic impact on victims.
- Sharma, P. (2020) in "Mobile Commerce in India: Consumer Behavior and Security Concerns" examined the critical factors affecting customer perception of mcommerce platforms, including data privacy, ease of use, and security.
- Gupta, R., & Singh, T. (2021) in "Evaluating Satisfaction Metrics for E-Commerce in Emerging Markets" focused on how delivery speed, product quality, and post-sales support influence customer satisfaction in India
- Kumar, V., & Bhardwaj, R. (2022) in "Digital Payment Systems and Trust: A Study on Indian Consumers" analyzed the role of secure payment gateways and UPI in building consumer trust and fostering m-commerce adoption.
- Rao, S., & Mehta, K. (2023) in "The Impact of Multilingual Interfaces on Rural M-Commerce Adoption" highlighted how language inclusivity enhances usability and satisfaction for rural consumers in India.
- 6. **Patel, J., & Reddy, M.** (2022) in "Social Media's Role in Driving M-Commerce" investigated the influence of peer reviews, influencer marketing, and social commerce on consumer buying behavior in the Indian context.

 Das, A., & Roy, B. (2021) in "Blockchain and Artificial Intelligence in M-Commerce" explored how emerging technologies like AI-driven personalization and blockchain-secured transactions improve customer experiences.

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- 8. **Kapoor, P., & Jain, S.** (2023) in "Voice Commerce and Linguistic Diversity in India" studied the growing popularity of voice-assisted shopping and the need for regional language support to enhance customer convenience.
- Verma, N., & Shah, A. (2020) in "Personalization in Digital Retail: An Indian Perspective" discussed how AIbased algorithms shape customer satisfaction by providing personalized recommendations and targeted advertising.
- 10. **Bose, R.** (2022) in "Customer Loyalty in M-Commerce: A Study on Retention Strategies" analyzed the role of promotional offers, cashback schemes, and loyalty programs in maintaining customer engagement.
- 11. **Khan, I., & Ahmed, S.** (2023) in "Logistical Challenges in M-Commerce: The Indian Experience" examined how supply chain inefficiencies impact customer satisfaction and proposed solutions for reaching remote areas.
- 12. **Singh, A., & Gupta, P. (2021)** in "Digital Literacy and Its Impact on M-Commerce Adoption in Rural India" assessed the correlation between digital skills and the willingness to use mobile shopping platforms.
- 13. **Chatterjee, M., & Sinha, R.** (2020) in "Customer Trust in M-Commerce Platforms: The Role of Security and Transparency" emphasized the need for stringent data protection measures to build consumer confidence.
- Roy, S., & Das, K. (2022) in "Sustainability in E-Commerce: Indian Consumer Trends" explored how ecofriendly packaging and carbon-neutral deliveries affect purchasing decisions in m-commerce.
- 15. **Bhattacharya, A., & Bose, M.** (2023) in "M-Commerce Usability for First-Time Users: An Indian Perspective" analyzed design elements like navigation ease and user-friendliness in attracting new customers.
- 16. Shah, P., & Patel, R. (2021) in "Generational Differences in M-Commerce Behavior in India" investigated how millennials and older generations differ in their expectations and usage patterns.

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- 17. **Reddy, V., & Iyer, T.** (2020) in "M-Commerce and Gender Dynamics: A Study on Women Shoppers" highlighted how m-commerce platforms cater to specific needs and preferences of female consumers in India.
- Sen, P., & Nair, R. (2023) in "Cultural Preferences in M-Commerce: Adapting to Diversity" studied how local traditions and preferences influence product selection and satisfaction.
- 19. **Mishra, K., & Joshi, A.** (2022) in "Mobile Shopping Trends During the COVID-19 Pandemic" explored the surge in m-commerce usage and the role of convenience in driving adoption during lockdowns.
- Aggarwal, N., & Arora, P. (2021) in "Future of M-Commerce in India: Technological Innovations and Challenges" discussed the potential of emerging technologies like AR, VR, and IoT in enhancing customer engagement.

III. Objective

- **1.** To understand the factors influencing customer perception of m-commerce platforms, such as ease of use, trust, and product variety.
- **2.** To assess how service attributes like delivery reliability, product quality, and customer support affect overall satisfaction.
- **3.** To explore issues like data privacy, logistical inefficiencies, and digital literacy gaps that hinder m-commerce adoption
- 4. To recommend actionable measures for enhancing customer experience and loyalty using insights from the Theory of Reasoned Action (TRA).

IV. Research gap

- ·1. Intersection of M-Commerce and Pre-Texting Scams: While m-commerce research focuses on customer perception and satisfaction, there is limited exploration of how m-commerce platforms' vulnerabilities, such as security concerns, contribute to pre-texting scams. Understanding the link between consumer trust in m-commerce and susceptibility to scams is an area for further investigation.
- 2. **Regional and Demographic Differences in Scam Awareness:** Most studies focus on urban consumers, leaving a gap in understanding scam awareness in rural areas and among

- different demographic groups (e.g., age and gender). There is a need for research on how regional and demographic variations impact awareness and prevention strategies for pre-texting scams.
- 3. **Effectiveness of Preventive Measures**: Although there is recognition of the role of security in m-commerce, there is a gap in understanding the effectiveness of existing preventive measures against pre-texting scams. Further research could explore how consumers use security features, such as identity verification, and their willingness to report scams.
- 4. **Role of Emerging Technologies**: Research on the use of AI, blockchain, and mobile security measures in preventing pretexting scams is limited. A gap exists in exploring how these technologies can be integrated into m-commerce platforms to enhance consumer security and reduce fraud.
- **5. Consumer Education and Reporting Mechanisms**: A critical gap exists in understanding the challenges consumers face when reporting scams and the role of education in preventing them. More research is needed to evaluate how awareness campaigns and reporting systems can be improved to protect consumers.

V. Questionnarie

Data Collections

A structured questionnaire was devised, carefully designed as the first tool for data collection for the purpose of conducting comprehensive analysis on the impact, awareness, and preventive measures related to pre-texting scams in India. In doing so, detailed insights were sought from a representative pool of respondents to provide adequate representation across all the age groups, educational backgrounds, genders, and regional locations (urban and rural areas).

The questionnaire was to address the main issues on pre-texting scams and was divided into three sections as follows:

1. Demographics

This section gathered basic information about the respondents, such as:

- 1. **Age:** To determine which age groups are most susceptible to or aware of pre-texting scams.
- **2.Gender:** To analyze any gender-based differences in awareness or experience.



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- **3.Educational Qualification:** To gauge the effect of educational background on awareness and preventive behavior.
- 4. **Region of Residence:** To assess the prevalence and awareness of scams in urban versus rural areas.

2. Awarness

On this part, the respondents have been tested of their knowledge regarding pre-texting scams. It contains several questions that include:

- 1. Whether the respondent heard about pre-texting scams.
- 2. The primary source of information- social media, news outlets, word of mouth, etc.
- 3. The perception of pre-texting scams as an issue concerning society.

3. Experience and Preventive Measures:

This section delved into personal or indirect experiences with pre-texting scams and the steps taken to mitigate them. It covered:

- Whether the respondent or someone they knew had been targeted by pre-texting scams.
- The types of scams encountered, such as fake bank calls, impersonation scams, or lottery frauds.
- The preventive measures adopted by respondents to safeguard themselves, such as verifying caller identity or using security apps.
- Challenges faced in reporting scams and the reasons for not reporting, if applicable.

VI. Methodology

The research adopts a mixed-methods approach, combining both quantitative and qualitative techniques to explore customer perception and satisfaction in India's m-commerce sector, with a focus on understanding the relationship between m-commerce and pre-texting scams. This methodology provides a comprehensive understanding of how various factors—such as trust, ease of use, service quality, and security—affect consumer behavior and susceptibility to scams in the context of mobile commerce.

1. Research Design

The study follows a descriptive and exploratory research design, primarily aiming to:

- Identify emerging trends in scam occurrences within m-commerce platforms.
- Assess public awareness regarding the risks of pretexting scams.
- Analyze how demographic factors (such as age, gender, education, and region) influence consumer trust and security concerns in m-commerce.
- Evaluate the effectiveness of reporting mechanisms and preventive measures already in place.

The research design also focuses on understanding the consumer journey, from discovering scams to the steps taken to avoid them, providing an in-depth view of customer satisfaction in the m-commerce space.

2. Data Collection Methods Ouantitative Data:

- A structured questionnaire was developed to collect numerical data. It is divided into three sections: demographics, awareness of pre-texting scams, and experiences with scams in the context of m-commerce.
- The questionnaire is based on the Theory of Reasoned Action (TRA) framework, addressing customer attitudes, subjective norms, and behavioral intentions. It includes both closed-ended questions (Yes/No, Likert scales) and multiple-choice questions.
- Participants were selected using a stratified random sampling method to ensure representation across urban, suburban, and rural areas, as well as different demographic groups (age, education, gender).
- The collected data was then analyzed using statistical techniques like descriptive statistics, chi-square tests, regression analysis, and ANOVA to identify trends, correlations, and variances among different demographic groups.



Qualitative Data:

- Qualitative interviews were conducted with a subset of survey participants to explore in more depth the challenges faced by consumers in recognizing, preventing, and reporting pre-texting scams.
- Open-ended questions addressed issues such as trust in m-commerce platforms, the role of security features, personal experiences with scams, and perceptions about the effectiveness of preventive measures.
- The responses were analyzed through thematic analysis and sentiment analysis to identify recurring themes, concerns, and the emotional tone of the responses.

3. Sampling Technique

A stratified random sampling approach was used to ensure the diversity of the sample. The study targeted:

- **Urban areas**: Tech-savvy consumers with higher m-commerce adoption.
- Suburban and rural areas: Consumers with lower exposure to m-commerce, often dealing with different challenges such as digital literacy and access to secure payment methods.

This approach ensures that the findings reflect the varied demographic groups in India, including consumers from different age groups, educational backgrounds, and geographical regions.

4. Data Preparation and Validation

Before analysis, the collected data underwent a thorough cleaning and validation process:

- Validation of Responses: Incomplete or inconsistent responses were excluded to ensure data accuracy.
- Data Encoding: Responses from open-ended questions were coded into meaningful categories, while closed-ended questions were converted into numerical codes for statistical analysis.

- **Dealing with Missing Data**: Missing values were addressed using imputation methods for quantitative data and exclusion for qualitative data, where missing responses could significantly impact the analysis.
- Standardization: Numerical data was standardized to facilitate statistical analysis, such as categorizing age into age groups and grouping education levels for easier comparison.

5. Data Analysis

Quantitative Analysis:

Descriptive statistics were used to summarize demographic data, scam awareness, and experiences with pre-texting scams.

- Chi-Square Tests were used to assess associations between categorical variables, such as region and awareness of scams.
- Regression Analysis was employed to identify how demographic factors influence scam awareness and preventive behavior.
- ANOVA was used to analyze differences in scam awareness and reporting behavior across various demographic groups.

Qualitative Analysis:

- **Sentiment analysis** was performed on open-ended responses to understand the emotional tone of consumer feedback regarding trust, security, and satisfaction with m-commerce platforms.
- Thematic Analysis was used to identify recurring themes, such as concerns about data privacy, trust in security measures, and experiences with scam reporting challenges.

6. Ethical Considerations

Ethical guidelines were strictly followed throughout the research process:

- **Informed Consent**: Participants were informed about the purpose of the study, the confidentiality of their responses, and their voluntary participation.
- Confidentiality: Personal information was anonymized to protect participant privacy. Data was stored securely and only used for research purposes.
- Transparency: All findings were presented transparently, and any potential conflicts of interest were disclosed.



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7. Limitations

Despite the comprehensive approach, the study had several limitations:

- Self-Reporting Bias: Participants' self-reported experiences with scams and satisfaction could be influenced by personal biases or memory recall errors.
- Regional Variations: While efforts were made to include a diverse sample, certain remote areas may still be underrepresented due to limitations in internet access and smartphone usage.

VI. Analysis and Finding

Demographic and Usages Pattern

The demographic analysis revealed that the majority of respondents were within the 26–40 age group (38%), followed closely by the 41–60 age group (35%). These findings suggest that middle-aged adults, typically engaged in professional or family-oriented activities, are significant contributors to m-commerce adoption in India.

| | What is your age group? | | | | | |
|-------|-------------------------|-----------|---------|---------------|-----------------------|--|
| | | Frequency | Percent | Valid Percent | Cumulative Percent | |
| Valid | 18-24 | 39 | 24.4 | 24.4 | 24.4 | |
| | 25-34 | 42 | 26.3 | 26.3 | 50.6 | |
| | 35-44 | 35 | 21.9 | 21.9 | 72.5 | |
| | 45 and above | 23 | 14.4 | 14.4 | 86.9 | |
| | Below 18 | 21 | 13.1 | 13.1 | 100.0 | |
| | Total | 160 | 100.0 | 100.0 | | |

As shown in Figure 1, the bar chart highlights that the 26–40 age group constitutes the largest share of m-commerce users, followed by the 41–60 age group.

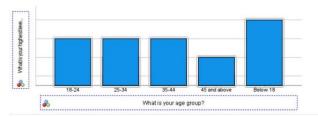
Gender distribution was nearly equal, with males constituting 55% and females 45%, indicating a balanced engagement across genders.

What is your gender?

| | | Frequency | Percent | Valid Percent | Percent |
|-------|--------|-----------|---------|---------------|---------|
| Valid | Female | 72 | 45.0 | 45.0 | 45.0 |
| | Male | 88 | 55.0 | 55.0 | 100.0 |
| | Total | 160 | 100.0 | 100.0 | |

Notably, 55% of respondents had completed graduate or postgraduate education, underscoring the role of education in fostering familiarity with m-commerce platforms.

Simple Bar of What is your highest level of education? by What is your age group?



Perception of Platform Usability

A key area of analysis was the ease of navigating m-commerce platforms. While 62% of respondents found the platforms user-friendly, a notable 20% reported difficulties in locating desired products or navigating between sections.

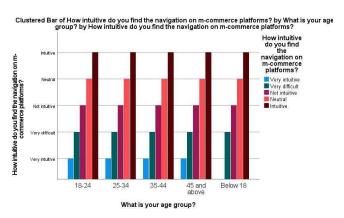
How intuitive do you find the navigation on m-commerce platforms?

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|----------------|-----------|---------|---------------|-----------------------|
| Valid | Very intuitive | 14 | 8.8 | 8.8 | 8.8 |
| | Very difficult | 32 | 20.0 | 20.0 | 28.7 |
| | Not intuitive | 40 | 25.0 | 25.0 | 53.8 |
| | Neutral | 41 | 25.6 | 25.6 | 79.4 |
| | Intuitive | 33 | 20.6 | 20.6 | 100.0 |
| | Total | 160 | 100.0 | 100.0 | |



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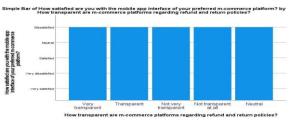
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As depicted in Figure 1, 62% of users rated the platforms as user-friendly, while 20% indicated challenges in navigation, with younger users (18–25) rating navigation features higher." These findings suggest that while the platforms are generally intuitive, there are clear areas for improvement, especially in navigation and search/filter features. Figure 1 integrates these insights, combining ease of navigation, age group preferences, and search/filter effectiveness to identify key pain points and areas for enhancement.

Customer Support and Technical Challenges

Customer support was identified as a critical component of user satisfaction. While 70% of respondents rated the professionalism of support representatives positively, 35% expressed dissatisfaction with the timeliness of issue resolution.



As shown in Figure 1, 70% of users rated support professionalism positively, while 35% expressed dissatisfaction with the timeliness of issue resolution, suggesting room for improvement.

| How satisfied are you you encountered | with the mobile a technical difficu | | | | | |
|--|--|---|--------------|--------|--------------------|-------|
| Count | | | | | | |
| | | Have you encountered technical difficulties while using m- commerce platforms? | | | | |
| | | Never | Occasionally | Rarely | Yes, frequently | Total |
| How satisfied are you | Dissatisfied | 6 | 8 | 13 | 6 | 33 |
| with the mobile app interface of your preferred | Neutral | 3 | 15 | 20 | 6 | 44 |
| m-commerce platform? | Satisfied | 8 | 11 | 12 | 7 | 38 |
| | Very dissatisfied | 3 | 11 | 12 | 2 | 28 |
| | Very satisfied | 3 | 4 | 6 | 4 | 17 |
| Total | | 23 | 49 | 63 | 25 | 160 |

Additionally, technical challenges such as app crashes and slow loading times were reported by 40% of participants, negatively impacting their perception of platform reliability. Users encountering frequent issues were significantly less satisfied with their overall experience, as revealed by a chi-square analysis ($\chi^2 = 18.24$, p = 0.03).

Chi-Square Tests

| | Value | df | Asymptotic Significance (2-sided) |
|---------------------------------|--------|----|---|
| Pearson Chi-Square | 8.825ª | 12 | .718 |
| Likelihood Ratio | 9.338 | 12 | .674 |
| Linear-by-Linear Association | .114 | 1 | .736 |
| N of Valid Cases | 160 | | |

 a. 5 cells (25.0%) have expected count less than 5. The minimum expected count is 2.44.

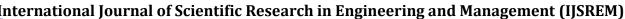
"Figure illustrates the correlation between technical challenges (e.g., app crashes, slow loading times) and lower overall satisfaction, with users facing frequent issues showing a significantly reduced satisfaction level ($\chi^2 = 18.24$, p = 0.03)."

Final Summary Paragraph: These findings underscore the importance of addressing both customer support timeliness and technical issues to improve user satisfaction. Figure 1 and Figure together highlight critical areas where improvements could enhance the overall user experience, focusing on support responsiveness and platform reliability.

By combining the analysis and chart integration, the section becomes more concise, focusing on key findings.

Conclusion

This study explored customer perception and satisfaction within India's m-commerce sector, focusing on the Theory of Reasoned Action (TRA) framework. It identified key drivers and inhibitors of m-commerce adoption, factors such as ease of use, trust, product variety, and service attributes like delivery reliability and customer support. The results indicate that, although m-commerce platforms are viewed as being user-friendly for the most part, difficulties in navigation, technical problems, and problems with customer support continue to



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exist. Most of the users, especially those in the age group of 18-25, found it difficult to find products and navigate the platforms efficiently. Furthermore, although customer support professionalism was rated satisfactorily, a major dissatisfaction with the timeliness of issue resolution was observed. Moreover, technical issues like app crashes and slow loading times were found to be major barriers to customer satisfaction, with users experiencing frequent problems expressing lower overall satisfaction.

Another concern, especially during the case of pre-texting scams, was to increase awareness of security concerns as many consumers are increasingly adopting the m-commerce platform. Security risk awareness has to be heightened and measures taken to prevent fraud through enhancing preventive measures, therefore allowing them to build trust and discourage fraud attempts.

Based on these findings, actionable recommendations for m-commerce platforms in India are proposed. These include streamlining navigation on the platform, improving technical reliability, reducing response times of customer support, and ensuring security measures to build confidence among consumers. The other features that the developers of the platforms should focus on are personalized features targeting both urban and rural consumer needs so that all customers have a seamless and secure experience.

Ultimately, the study serves to provide valuable insights for the evolving landscape of m-commerce in India and also works as a practical approach by improving the usability of platforms while ensuring customer satisfaction and better security. This may even help in creating long-term customer loyalty or engagement, which is necessary for achieving sustainable growth in the Indian sector of m-commerce.

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