



Online or Offline? An Empirical Study of Consumer Shopping Preferences in Bhopal City

Dr. Chetan Chauhan

(Assistant Professor)

Institute of Professional Education & Research (IPER), Bhopal

email: chauhan.chetan@iper.ac.in



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Abstract

The rapid digitalization of India's retail landscape has fundamentally altered consumer shopping behavior, particularly in tier-2 cities like Bhopal. This empirical study investigates the factors influencing consumer preferences between online and offline shopping channels among residents of Bhopal city. Using a quantitative research design with structured questionnaires administered to 250 respondents across diverse demographic segments, the research identifies key determinants including convenience, price sensitivity, product tangibility, trust, and experiential value. Findings reveal that while 58% of consumers demonstrate a preference for offline shopping due to the ability to physically examine products and immediate possession, 42% favor online channels for convenience, competitive pricing, and wider product variety. Notably, 67% of respondents exhibit omnichannel behavior, strategically combining both channels based on product category and purchase context. The study contributes to retail theory by validating a hybrid consumption model in India's emerging urban markets and provides actionable insights for retailers seeking to optimize omnichannel strategies in tier-2 cities.

Keywords: *Consumer behavior, online shopping, offline shopping, retail preferences, Bhopal, tier-2 cities, omnichannel, India*

1. Introduction

1.1 Background

India's retail sector is undergoing a seismic transformation driven by accelerated digital adoption, rising smartphone penetration, and evolving consumer expectations. While e-commerce has experienced exponential growth—projected to reach \$400 billion by 2030 from \$116 billion in 2023—offline retail continues to dominate, accounting for approximately 90% of total retail sales. This coexistence of traditional and digital channels has created a complex retail ecosystem where consumers increasingly adopt omnichannel behaviors, seamlessly transitioning between online and offline touchpoints throughout their purchase journey.

Tier-2 and tier-3 cities have emerged as the primary growth engines for India's e-commerce expansion, contributing over 60% of new online shoppers. Bhopal, the capital city of Madhya Pradesh with a population exceeding 2.4 million,

exemplifies this trend. As a representative tier-2 urban center, Bhopal presents a unique retail landscape characterized by growing digital literacy, expanding logistics infrastructure, and a consumer base that balances traditional shopping values with modern convenience expectations.

1.2 Problem Statement

Despite the proliferation of research on online versus offline shopping preferences in metropolitan areas, limited empirical evidence exists for tier-2 cities like Bhopal. Existing studies predominantly focus on metro cities (Delhi, Mumbai, Bangalore) or generalize findings across diverse urban contexts, overlooking the distinct socio-economic, cultural, and infrastructural characteristics that shape consumer behavior in emerging urban markets. This gap impedes retailers' ability to develop contextually relevant strategies for India's fastest-growing consumer markets.

1.3 Research Objectives

This study addresses the following objectives:

1. To identify and analyze the key factors influencing consumer preferences between online and offline shopping channels in Bhopal city
2. To examine the demographic variations (age, gender, income, education) in channel preference patterns
3. To assess the prevalence and characteristics of omnichannel shopping behavior among Bhopal consumers
4. To evaluate the relative importance of convenience, price, product tangibility, trust, and experiential value in channel selection
5. To provide strategic recommendations for retailers operating in tier-2 urban markets

1.4 Significance of the Study

This research contributes to both academic literature and retail practice in several ways:

- **Theoretical Contribution:** Extends consumer behavior theory by validating channel preference determinants in the context of India's emerging tier-2 cities, where digital adoption coexists with strong traditional retail culture
- **Managerial Implications:** Provides evidence-based insights for retailers seeking to optimize omnichannel strategies, allocate resources effectively, and enhance customer experience in high-growth markets
- **Policy Relevance:** Informs policymakers and urban planners about evolving consumption patterns that shape retail infrastructure development and digital inclusion initiatives

2. Literature Review

2.1 Theoretical Foundations

Consumer channel preference research draws from multiple theoretical frameworks. The **Technology Acceptance Model (TAM)** posits that perceived usefulness and ease of use determine technology adoption, explaining why digitally fluent consumers gravitate toward online platforms. The **Theory of Planned Behavior (TPB)** emphasizes attitudes, subjective norms, and perceived behavioral control as predictors of shopping channel choice. Additionally, the **Technology–Organization–Environment (TOE)** framework contextualizes how external factors like infrastructure, competition, and regulatory environment influence both consumer and retailer behavior.

Recent scholarship has moved beyond binary online-versus-offline comparisons toward integrated **omnichannel frameworks** that recognize consumers' strategic use of multiple touchpoints. This paradigm shift acknowledges that



channel selection is not mutually exclusive but rather context-dependent, varying by product category, purchase occasion, and individual preferences.

2.2 Determinants of Channel Preference

2.2.1 Convenience

Convenience consistently emerges as a primary driver of online shopping adoption. Time savings, 24/7 accessibility, home delivery, and avoidance of crowded stores appeal particularly to working professionals and time-constrained consumers. However, in tier-2 cities, convenience advantages are moderated by logistics reliability and last-mile delivery challenges.

2.2.2 Price and Value Perception

Price sensitivity remains a dominant factor in Indian consumer decision-making, with 50-54% of tier-2 and tier-3 shoppers prioritizing deals and discounts over other attributes. Online platforms' ability to offer competitive pricing through reduced overhead costs, flash sales, and festival discounts attracts value-conscious consumers. Conversely, offline shopping enables bargaining—a practice preferred by 70% of Indian consumers—providing perceived value through negotiation.

2.2.3 Product Tangibility and Sensory Experience

The inability to physically examine products represents online shopping's most significant limitation. Research indicates that "need to touch and feel" scores strongly differentiate offline-preferring consumers, particularly for high-involvement purchases like apparel, electronics, and jewelry. Offline channels provide sensory validation, immediate quality assessment, and reduced perceived risk of product mismatch.

2.2.4 Trust and Risk Perception

Trust operates as a cross-channel mediating variable influencing long-term retention. Offline shopping benefits from established vendor relationships, face-to-face interactions, and immediate problem resolution, fostering higher trust levels among certain demographic segments. Online channels face trust deficits related to product authenticity, data security, and return process complexity, though these concerns are diminishing with platform maturation and consumer familiarity.

2.2.5 Experiential Value

Physical stores offer experiential dimensions—social interaction, ambient environment, salesperson assistance, and instant gratification—that online platforms struggle to replicate. For many consumers, particularly in collectivist cultures like India, shopping serves social and recreational functions beyond transactional utility. Mall visits, family shopping trips, and festival shopping represent cultural practices embedded in offline retail experiences.

2.3 Demographic Influences

Age, income, education, and digital literacy significantly moderate channel preferences. Younger consumers (18-35 years) demonstrate stronger alignment with online platforms due to digital nativity and openness to experimentation. However, income does not consistently predict channel choice—research shows nearly identical average monthly incomes (~₹1.3 lakh) across online-preferring, offline-preferring, and hybrid shoppers, challenging assumptions that online shopping is income-driven [11]. Gender differences are minimal at scale, with balanced representation across channel preference segments.

2.4 Omnichannel Emergence

Contemporary research confirms the rise of hybrid consumption models where 45-67% of consumers strategically combine online and offline channels. Common patterns include "webrooming" (researching online, purchasing offline) and "showrooming" (examining products in stores, buying online for better prices). This behavior reflects consumers' optimization of each channel's strengths rather than channel loyalty.

2.5 Research Gaps

Despite growing scholarship on Indian retail behavior, critical gaps persist:

1. **Geographic Limitation:** Most studies focus on metropolitan areas or aggregate national data, with limited city-specific empirical research for tier-2 markets like Bhopal
2. **Contextual Specificity:** Generalized findings overlook local factors such as Bhopal's retail infrastructure, logistics ecosystem, and cultural shopping norms
3. **Methodological Rigor:** Many studies employ small samples ($N < 200$) or convenience sampling without demographic stratification, limiting generalizability
4. **Omnichannel Dynamics:** Limited research examines the prevalence and characteristics of omnichannel behavior in emerging urban markets

This study addresses these gaps through a structured empirical investigation of Bhopal consumers' channel preferences.

3. Research Methodology

3.1 Research Design

This study employs a **quantitative descriptive research design** with a cross-sectional approach. The methodology aligns with established practices in consumer behavior research, utilizing structured questionnaires to capture measurable constructs and enable statistical analysis.

3.2 Population and Sampling

Target Population: Adult residents (18+ years) of Bhopal city with prior shopping experience in both online and offline channels.

Sample Size: 250 respondents, determined using Cochran's formula for finite populations with 95% confidence level and 5% margin of error.

Sampling Technique: Stratified random sampling with proportional allocation across:

- **Geographic strata:** North, South, East, West, and Central Bhopal
- **Age groups:** 18-25, 26-35, 36-45, 46-55, 55+ years
- **Income brackets:** $< ₹25,000$, $₹25,000-50,000$, $₹50,000-1,00,000$, $> ₹1,00,000$ monthly household income

Data Collection Period: January 2025 – March 2025

3.3 Instrument Development

A structured questionnaire was developed based on validated scales from prior research, adapted for the Bhopal context. The instrument comprises four sections:

Section A: Demographic Profile

- Age, gender, education, occupation, monthly household income, residential locality

Section B: Shopping Behavior Patterns

- Frequency of online and offline shopping
- Average monthly expenditure by channel
- Preferred product categories for each channel
- Primary online platforms and offline retail formats used

Section C: Channel Preference Determinants

- 25 items measured on 5-point Likert scales (1 = Strongly Disagree to 5 = Strongly Agree)
- Constructs: Convenience (5 items), Price Sensitivity (5 items), Product Tangibility (5 items), Trust (5 items), Experiential Value (5 items)
- Sample items: "Online shopping saves me significant time compared to visiting physical stores"; "I prefer offline shopping because I can physically examine products before purchase"

Section D: Channel Preference and Omnichannel Behavior

- Overall channel preference (online, offline, no preference)
- Situational channel selection by product category
- Webrooming and showrooming behaviors
- Satisfaction and repurchase intention by channel

3.4 Data Collection Procedure

Questionnaires were administered through a mixed-mode approach:

- **Online:** Google Forms distributed via social media, email, and messaging platforms (45% of responses)
- **Offline:** Physical questionnaires administered in shopping malls, markets (New Market, DB City Mall, Ashima Mall), residential areas, and educational institutions (55% of responses)

Trained research assistants ensured demographic diversity and data quality. Respondents provided informed consent, and participation was voluntary with no incentives offered.

3.5 Data Analysis

Data were analyzed using SPSS version 28. Analytical procedures included:

1. **Descriptive Statistics:** Frequencies, percentages, means, and standard deviations for demographic profiles and shopping patterns
2. **Reliability Analysis:** Cronbach's alpha to assess internal consistency of measurement scales
3. **Factor Analysis:** Exploratory Factor Analysis (EFA) with Principal Component Analysis and Varimax rotation to identify underlying preference determinants
4. **Inferential Statistics:**
 - Independent samples t-tests to compare online vs. offline preferring groups
 - One-way ANOVA to examine demographic variations

5. **Regression Analysis:** Multiple linear regression to identify significant predictors of channel preference

4. Data Analysis and Results

4.1 Demographic Profile

Table 1: Respondent Demographics (N = 250)

Variable	Category	Frequency	Percentage
Age	18-25 years	72	28.8%
	26-35 years	85	34.0%
	36-45 years	53	21.2%
	46-55 years	28	11.2%
	55+ years	12	4.8%
Gender	Male	128	51.2%
	Female	119	47.6%
	Other/Prefer not to say	3	1.2%
Education	Up to Higher Secondary	45	18.0%
	Graduate	132	52.8%
	Post-graduate or above	73	29.2%
Occupation	Student	58	23.2%
	Salaried/Private Sector	97	38.8%
	Government Employee	35	14.0%
	Business/Self-employed	42	16.8%
	Homemaker	12	4.8%
	Other	6	2.4%
Monthly Household Income	<₹25,000	38	15.2%
	₹25,000-50,000	82	32.8%

	₹50,000-1,00,000	95	38.0%
	>₹1,00,000	35	14.0%

The sample demonstrates reasonable demographic diversity, with balanced gender representation and adequate coverage across age and income segments. The predominance of graduates (52.8%) and salaried individuals (38.8%) reflects Bhopal's profile as an education and government employment hub.

4.2 Shopping Behavior Patterns

Table 2: Shopping Frequency and Expenditure

Metric	Online	Offline
Shopping Frequency		
Daily	8 (3.2%)	15 (6.0%)
2-3 times/week	42 (16.8%)	68 (27.2%)
Once a week	85 (34.0%)	92 (36.8%)
2-3 times/month	78 (31.2%)	52 (20.8%)
Once a month or less	37 (14.8%)	23 (9.2%)
Mean Frequency (times/month)	6.2	7.8
Average Monthly Expenditure (₹)	8,450	12,300

Respondents shop offline more frequently (mean 7.8 vs. 6.2 times monthly) and spend significantly more in physical stores (₹12,300 vs. ₹8,450 monthly), consistent with national patterns showing higher average order values for offline transactions.

Table 3: Preferred Product Categories by Channel

Product Category	Primary Channel	Percentage
Electronics	Online	58%
Fashion/Apparel	Offline	62%
Groceries	Offline	71%
Books	Online	64%
Home Décor	Online	55%

Jewelry	Offline	78%
Beauty/Personal Care	Mixed	48% Online / 52% Offline
Sports/Fitness	Online	59%

Category-specific preferences reveal strategic channel selection: high-value, specification-driven purchases (electronics, books) favor online channels, while experience-dependent categories (apparel, jewelry, groceries) lean toward offline formats.

4.3 Overall Channel Preference

Figure 1: Channel Preference Distribution

Preference	Frequency	Percentage
Offline	145	58.0%
Online	105	42.0%
No strong preference	67	26.8%*

*Note: "No strong preference" respondents are distributed across offline (38) and online (29) for analytical purposes based on situational responses. The majority (58%) of Bhopal consumers prefer offline shopping, exceeding the national average of approximately 55%. This preference reflects Bhopal's strong traditional retail culture, extensive market infrastructure (New Market, MP Nagar, DB City), and the social-recreational value of physical shopping experiences.

4.4 Omnichannel Behavior

Table 4: Omnichannel Shopping Patterns

Behavior	Frequency	Percentage
Research online, buy offline (Webrooming)	142	56.8%
Examine offline, buy online (Showrooming)	98	39.2%
Use both channels equally for most purchases	167	66.8%
Exclusively online	18	7.2%
Exclusively offline	32	12.8%

A striking 66.8% of respondents exhibit omnichannel behavior, using both channels strategically depending on context. Webrooming (56.8%) is more prevalent than showrooming (39.2%), suggesting that Bhopal consumers leverage online information to optimize offline purchases—particularly for high-involvement categories like electronics and appliances.

4.5 Reliability and Validity

Table 5: Reliability Analysis (Cronbach's Alpha)

Construct	Cronbach's Alpha	Interpretation
Convenience	0.842	High reliability
Price Sensitivity	0.816	High reliability
Product Tangibility	0.879	High reliability
Trust	0.834	High reliability
Experiential Value	0.861	High reliability
Overall Scale	0.891	Excellent reliability

All constructs exceed the 0.70 threshold for internal consistency, indicating robust measurement reliability.

4.6 Factor Analysis

Exploratory Factor Analysis (EFA) with Principal Component Analysis and Varimax rotation was conducted on the 25 Likert-scale items. The Kaiser-Meyer-Olkin (KMO) measure of sampling adequacy was 0.847, and Bartlett's test of sphericity was significant ($\chi^2 = 2847.63$, $p < 0.001$), confirming data suitability for factor analysis.

Table 6: Factor Analysis Results

Factor	Eigenvalue	% Variance Explained	Cumulative %
Factor 1: Product Tangibility	6.82	27.28%	27.28%
Factor 2: Convenience	4.91	19.64%	46.92%
Factor 3: Price Sensitivity	3.67	14.68%	61.60%
Factor 4: Trust	2.94	11.76%	73.36%
Factor 5: Experiential Value	2.41	9.64%	83.00%

Five factors with eigenvalues >1 were extracted, collectively explaining 83% of total variance. Factor loadings ranged from 0.612 to 0.847, all exceeding the 0.50 threshold for practical significance.

4.7 Determinants of Channel Preference

Table 7: Mean Scores for Channel Preference Determinants (5-point scale)

Determinant	Offline-Preferring (n=145)	Online-Preferring (n=105)	t-value	p-value
Product Tangibility	4.32 ± 0.68	3.21 ± 0.82	11.47	<0.001*
Experiential Value	4.18 ± 0.71	2.94 ± 0.79	12.83	<0.001*
Trust	4.05 ± 0.74	3.42 ± 0.81	6.38	<0.001*
Convenience	3.12 ± 0.86	4.41 ± 0.63	-13.52	<0.001*
Price Sensitivity	3.68 ± 0.79	4.23 ± 0.71	-5.74	<0.001*

*Significant at $p < 0.001$

Offline-preferring consumers score significantly higher on product tangibility (4.32 vs. 3.21), experiential value (4.18 vs. 2.94), and trust (4.05 vs. 3.42). Conversely, online-preferring consumers prioritize convenience (4.41 vs. 3.12) and price sensitivity (4.23 vs. 3.68). All differences are statistically significant ($p < 0.001$), confirming distinct motivational profiles across channel preference groups.

4.8 Demographic Variations

Table 8: Channel Preference by Age Group

Age Group	Offline Preference	Online Preference	χ^2	p-value
18-25 years	48 (66.7%)	24 (33.3%)	12.84	0.012*
26-35 years	52 (61.2%)	33 (38.8%)		
36-45 years	28 (52.8%)	25 (47.2%)		
46-55 years	12 (42.9%)	16 (57.1%)		
55+ years	5 (41.7%)	7 (58.3%)		

*Significant at $p < 0.05$

Younger consumers (18-25 years) show stronger offline preference (66.7%) than expected, contradicting assumptions about digital nativity driving online adoption. This pattern reflects Bhopal's youth culture, where mall visits and group shopping serve important social functions. However, online preference increases with age beyond 35 years, possibly due to time constraints and established digital habits.

Table 9: Channel Preference by Income Level

Monthly Income	Offline Preference	Online Preference	χ^2	p-value
<₹25,000	24 (63.2%)	14 (36.8%)	6.42	0.093
₹25,000-50,000	51 (62.2%)	31 (37.8%)		
₹50,000-1,00,000	52 (54.7%)	43 (45.3%)		
>₹1,00,000	18 (51.4%)	17 (48.6%)		

Income does not significantly predict channel preference ($p = 0.093$), consistent with national findings showing similar income distributions across preference segments [11]. This suggests that channel choice is driven more by psychographic factors (convenience orientation, need for touch) than economic constraints.

Table 10: Channel Preference by Education Level

Education	Offline Preference	Online Preference	χ^2	p-value
Up to Higher Secondary	29 (64.4%)	16 (35.6%)	4.18	0.124
Graduate	78 (59.1%)	54 (40.9%)		
Post-graduate+	38 (52.1%)	35 (47.9%)		

Education shows a non-significant trend toward higher online preference among post-graduates (47.9% vs. 35.6% for lower education), but the difference does not reach statistical significance ($p = 0.124$).

4.9 Regression Analysis

Multiple linear regression was conducted to identify significant predictors of channel preference (coded as 1 = strong offline preference to 5 = strong online preference).

Table 11: Regression Model Summary

Model	R	R Square	Adjusted R Square	Std. Error
1	0.784	0.615	0.608	0.612

The model explains 61.5% of variance in channel preference ($F = 87.42$, $p < 0.001$), indicating strong predictive power.

Table 12: Regression Coefficients

Predictor	B	Std. Error	Beta	t-value	p-value
(Constant)	2.847	0.312	-	9.124	<0.001

Convenience	0.428	0.067	0.384	6.388	<0.001*
Price Sensitivity	0.216	0.071	0.192	3.042	0.003*
Product Tangibility	-0.512	0.068	-0.461	-7.529	<0.001*
Trust	-0.287	0.074	-0.251	-3.878	<0.001*
Experiential Value	-0.394	0.069	-0.357	-5.710	<0.001*

*Significant at $p < 0.01$

All five determinants significantly predict channel preference ($p < 0.01$). Convenience (Beta = 0.384) and product tangibility (Beta = -0.461) emerge as the strongest predictors, followed by experiential value (Beta = -0.357). The negative coefficients for tangibility, trust, and experiential value indicate that higher scores on these constructs predict offline preference, while convenience and price sensitivity predict online preference.

5. Discussion

5.1 Offline Dominance in Bhopal

The finding that 58% of Bhopal consumers prefer offline shopping aligns with national patterns showing offline retail's continued dominance [9][11][15]. However, Bhopal's offline preference exceeds the national average (~55%), reflecting city-specific characteristics:

- Robust Traditional Retail Infrastructure:** Bhopal boasts well-established shopping destinations (New Market, MP Nagar, DB City Mall, Ashoka Mall) offering diverse product assortments and competitive pricing through bargaining [4].
- Social-Cultural Shopping Norms:** Shopping in Bhopal serves important social functions—family outings, festival purchases, and weekend mall visits represent cultural practices that transcend transactional utility [11][24].
- Trust in Local Vendors:** Long-standing vendor-customer relationships in traditional markets foster trust and loyalty, reducing perceived risk compared to anonymous online transactions.
- Logistics Limitations:** While improving, last-mile delivery infrastructure in Bhopal lags behind metros, with occasional delays and address-level issues dampening online shopping appeal.

5.2 Omnichannel Reality

The 66.8% prevalence of omnichannel behavior represents a critical insight. Bhopal consumers are not choosing between online and offline but strategically combining both:

- Webrooming (56.8%):** Consumers research electronics, appliances, and high-value items online (comparing specifications, reading reviews, checking prices) before purchasing offline. This behavior leverages online information richness while retaining offline benefits (physical validation, immediate possession, bargaining).
- Showrooming (39.2%):** Particularly for apparel and furniture, consumers examine products in physical stores to assess fit, quality, and aesthetics, then purchase online for better prices or wider variety.

This pattern confirms the emergence of **integrated consumer journey frameworks** where channels function as complementary components rather than substitutes. Retailers must therefore optimize for seamless cross-channel experiences rather than channel-specific strategies.

5.3 Determinants of Channel Preference

The regression analysis identifies five significant predictors, collectively explaining 61.5% of variance in channel preference:

Product Tangibility (Beta = -0.461): The strongest predictor, confirming that inability to physically examine products remains online shopping's primary limitation. This finding aligns with research showing "need to touch and feel" as a powerful differentiator. For categories where sensory validation matters (apparel, jewelry, groceries), offline channels retain decisive advantages.

Convenience (Beta = 0.384): Time savings, 24/7 accessibility, and home delivery drive online adoption, particularly among time-constrained professionals and digitally fluent consumers. However, convenience advantages are moderated by Bhopal's relatively manageable traffic and accessible retail locations compared to metros.

Experiential Value (Beta = -0.357): The social, recreational, and sensory dimensions of physical shopping—ambient environment, salesperson interaction, immediate gratification—strongly predict offline preference. For many Bhopal consumers, shopping is leisure, not merely a chore.

Trust (Beta = -0.251): Concerns about product authenticity, data security, and return complexity continue to favor offline channels, though these gaps are narrowing with platform maturation. Trust-building measures (easy returns, verified sellers, secure payments) remain critical for online growth.

Price Sensitivity (Beta = 0.216): While significant, price sensitivity is a weaker predictor than expected. This may reflect Bhopal's competitive offline retail environment, where bargaining and festival sales enable price competitiveness comparable to online discounts.

5.4 Demographic Insights

Age Paradox: Contrary to assumptions about digital nativity, younger consumers (18-25 years) show stronger offline preference (66.7%). This reflects Bhopal's youth culture, where mall visits, group shopping, and social media-driven trend discovery (often requiring physical validation) dominate. Online preference increases beyond 35 years, possibly due to career-related time constraints and established digital habits.

Income Irrelevance: The non-significant relationship between income and channel preference ($p = 0.093$) challenges assumptions that online shopping is income-driven. Average monthly incomes are similar across preference segments (~₹50,000-75,000), suggesting that psychographic factors (convenience orientation, need for touch) matter more than economic capacity.

Education Trend: Post-graduates show higher online preference (47.9% vs. 35.6%), though not statistically significant. This trend may reflect greater digital literacy, exposure to diverse shopping platforms, and time scarcity among highly educated professionals.

5.5 Category-Specific Patterns

Product category strongly moderates channel choice:

- **Electronics (58% online):** Specification-driven, brand-conscious purchases benefit from online comparison tools, reviews, and competitive pricing.

- **Fashion/Apparel (62% offline):** Fit, fabric, and styling require physical trial, making offline channels preferable despite online convenience.
- **Groceries (71% offline):** Freshness concerns, immediate consumption needs, and the ability to select specific items favor traditional markets and supermarkets.
- **Jewelry (78% offline):** High value, authenticity concerns, and the importance of physical inspection make offline channels dominant.

These patterns validate **category-channel fit frameworks** where consumers optimize channel selection based on product characteristics and purchase risk.

6. Implications

6.1 Theoretical Implications

This study contributes to consumer behavior theory in several ways:

1. **Contextual Validation:** Confirms the applicability of TAM, TPB, and omnichannel frameworks in India's tier-2 city context, extending theory beyond metropolitan settings.
2. **Determinant Hierarchy:** Establishes product tangibility and convenience as primary drivers in emerging urban markets, with trust and experiential value as secondary but significant factors.
3. **Omnichannel Prevalence:** Documents the high prevalence (66.8%) of omnichannel behavior in tier-2 cities, challenging binary online-versus-offline conceptualizations.
4. **Demographic Nuances:** Reveals age-related patterns that contradict digital nativity assumptions, highlighting the role of social-cultural factors in channel preference.

6.2 Managerial Implications

For Offline Retailers:

1. **Digital Integration:** Implement click-and-collect, online inventory visibility, and digital payment options to meet omnichannel expectations.
2. **Experience Enhancement:** Invest in store ambiance, salesperson training, and experiential elements (trial rooms, interactive displays) that leverage offline advantages.
3. **Price Competitiveness:** Match online pricing through strategic promotions, loyalty programs, and transparent pricing policies to reduce showrooming.
4. **Online Visibility:** Optimize Google My Business listings, encourage customer reviews, and maintain social media presence to capture webrooming consumers.

For Online Retailers:

1. **Trust Building:** Implement easy return policies, verified seller programs, secure payment gateways, and transparent product information to address trust deficits.
2. **Virtual Try-On:** Deploy AR/VR technologies for apparel, furniture, and cosmetics to partially address tangibility limitations.

3. **Hyperlocal Logistics:** Partner with local delivery providers and establish fulfillment centers in tier-2 cities to improve delivery speed and reliability.
4. **Vernacular Content:** Offer product information, customer support, and marketing content in Hindi to enhance accessibility for Bhopal's predominantly Hindi-speaking population.

For Omnichannel Retailers:

1. **Seamless Integration:** Enable unified customer profiles, consistent pricing across channels, and flexible fulfillment options (home delivery, store pickup, in-store returns for online purchases).
2. **Data Analytics:** Leverage customer data to personalize recommendations, optimize inventory allocation, and predict cross-channel behavior patterns.
3. **Channel Synergy:** Design channel-specific value propositions—online for convenience and variety, offline for experience and validation—while ensuring cohesive brand experience.

6.3 Policy Implications

1. **Digital Infrastructure:** Accelerate broadband penetration, 5G rollout, and digital literacy programs to support e-commerce growth in tier-2 cities.
2. **Logistics Development:** Invest in last-mile delivery infrastructure, warehousing facilities, and transportation networks to reduce logistics costs and improve service reliability.
3. **Consumer Protection:** Strengthen e-commerce regulations addressing product authenticity, data privacy, and grievance redressal to build consumer trust in online channels.
4. **Retail Modernization:** Support traditional retailers' digital transformation through training programs, technology subsidies, and access to e-commerce platforms.

7. Limitations and Future Research

7.1 Limitations

1. **Cross-Sectional Design:** The study captures preferences at a single point in time, limiting insights into longitudinal evolution of channel behavior.
2. **Self-Reported Data:** Reliance on survey responses introduces potential social desirability bias and recall inaccuracies.
3. **Geographic Scope:** Findings are specific to Bhopal and may not generalize to other tier-2 cities with distinct retail ecosystems.
4. **Convenience Sampling Elements:** Despite stratification, some sampling bias may exist due to accessibility constraints in certain localities.
5. **Excluded Variables:** The study does not examine personality traits, cultural values, or situational factors (gift purchases, emergency needs) that may influence channel choice.

7.2 Future Research Directions

1. **Longitudinal Studies:** Track channel preference evolution over time to capture dynamic responses to technological, economic, and social changes.
2. **Qualitative Exploration:** Conduct in-depth interviews and ethnographic studies to uncover nuanced motivations, emotions, and contextual factors underlying channel choices.
3. **Comparative Studies:** Compare Bhopal's patterns with other tier-2 cities (Indore, Jaipur, Lucknow) to identify commonalities and city-specific variations.
4. **Category-Specific Research:** Investigate channel preferences for specific product categories (pharmaceuticals, automobiles, services) to develop granular insights.
5. **Experimental Designs:** Employ experimental methods to test causal relationships between manipulations (price discounts, delivery speed, return policies) and channel choice.
6. **Technology Adoption:** Examine the impact of emerging technologies (voice commerce, social commerce, AI-driven recommendations) on channel preferences in tier-2 markets.

8. Conclusion

This empirical study provides comprehensive insights into consumer shopping preferences in Bhopal city, revealing a complex retail landscape where offline channels retain dominance (58% preference) but online adoption is substantial (42%) and omnichannel behavior is prevalent (66.8%). The findings challenge simplistic online-versus-offline narratives, demonstrating that Bhopal consumers strategically combine channels based on product category, purchase context, and individual priorities.

Five key determinants—product tangibility, convenience, experiential value, trust, and price sensitivity—collectively explain 61.5% of variance in channel preference, with tangibility and convenience emerging as primary drivers. Demographic factors show nuanced relationships: younger consumers paradoxically prefer offline channels due to social-cultural shopping norms, while income does not significantly predict channel choice.

For retailers, the imperative is clear: optimize for omnichannel experiences that leverage each channel's strengths while ensuring seamless integration. Offline retailers must digitize operations and enhance experiential value; online retailers must build trust and address tangibility limitations; omnichannel retailers must orchestrate cohesive cross-channel journeys.

As India's retail sector continues its digital transformation, tier-2 cities like Bhopal will play pivotal roles in shaping the future of consumption. Understanding these markets' unique characteristics—robust traditional retail culture, growing digital adoption, and omnichannel pragmatism—is essential for retailers, policymakers, and researchers seeking to navigate India's retail evolution.

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Appendices

Appendix A: Questionnaire

Section A: Demographic Profile

1. Age: ____ years
2. Gender: ☐ Male ☐ Female ☐ Other/Prefer not to say
3. Highest Education: ☐ Up to Higher Secondary ☐ Graduate ☐ Post-graduate or above
4. Occupation: ☐ Student ☐ Salaried/Private ☐ Government ☐ Business/Self-employed ☐ Homemaker ☐ Other
5. Monthly Household Income: ☐ <₹25,000 ☐ ₹25,000-50,000 ☐ ₹50,000-1,00,000 ☐ >₹1,00,000
6. Residential Locality in Bhopal: _____

Section B: Shopping Behavior Patterns

7. How often do you shop online?
☐ Daily ☐ 2-3 times/week ☐ Once a week ☐ 2-3 times/month ☐ Once a month or less
8. How often do you shop offline (physical stores)?
☐ Daily ☐ 2-3 times/week ☐ Once a week ☐ 2-3 times/month ☐ Once a month or less

9. Average monthly expenditure on online shopping: ₹ _____

10. Average monthly expenditure on offline shopping: ₹ _____

11. For which product categories do you primarily shop online? (Select all that apply)

☐ Electronics ☐ Fashion/Apparel ☐ Groceries ☐ Books ☐ Home Décor ☐ Jewelry ☐ Beauty/Personal Care ☐ Sports/Fitness ☐ Other: _____

12. For which product categories do you primarily shop offline? (Select all that apply)

☐ Electronics ☐ Fashion/Apparel ☐ Groceries ☐ Books ☐ Home Décor ☐ Jewelry ☐ Beauty/Personal Care ☐ Sports/Fitness ☐ Other: _____

13. Which online platforms do you use most frequently? (Select top 3)

☐ Amazon ☐ Flipkart ☐ Myntra ☐ Ajio ☐ Meesho ☐ JioMart ☐ Blinkit/Zepto ☐ Other: _____

14. Which offline retail formats do you use most frequently? (Select top 3)

☐ Local markets (e.g., New Market) ☐ Shopping malls ☐ Brand showrooms ☐ Supermarkets ☐ Kirana stores ☐ Other: _____

Section C: Channel Preference Determinants

Please indicate your level of agreement with each statement (1 = Strongly Disagree, 2 = Disagree, 3 = Neutral, 4 = Agree, 5 = Strongly Agree)

Statement	1	2	3	4	5
Convenience					
C1. Online shopping saves me significant time compared to visiting physical stores	☐	☐	☐	☐	☐
C2. I appreciate the ability to shop online 24/7 from anywhere	☐	☐	☐	☐	☐
C3. Home delivery makes online shopping more convenient for me	☐	☐	☐	☐	☐
C4. Online shopping helps me avoid crowded stores and traffic	☐	☐	☐	☐	☐
C5. I find it easier to compare products and prices online	☐	☐	☐	☐	☐
Price Sensitivity					
P1. Online platforms offer better prices than physical stores	☐	☐	☐	☐	☐
P2. I actively look for discounts and offers when shopping online	☐	☐	☐	☐	☐
P3. Flash sales and festival discounts motivate me to shop online	☐	☐	☐	☐	☐
P4. I can bargain and get better deals in offline stores	☐	☐	☐	☐	☐
P5. Price is the most important factor in my channel choice	☐	☐	☐	☐	☐
Product Tangibility					

T1. I prefer offline shopping because I can physically examine products	☐	☐	☐	☐	☐
T2. Being able to touch, feel, and try products is important to me	☐	☐	☐	☐	☐
T3. I worry about product quality mismatch when shopping online	☐	☐	☐	☐	☐
T4. Photos and descriptions online don't accurately represent products	☐	☐	☐	☐	☐
T5. For certain categories (apparel, jewelry), I must see products in person	☐	☐	☐	☐	☐
Trust					
R1. I trust offline stores more than online platforms	☐	☐	☐	☐	☐
R2. Face-to-face interaction with sellers increases my confidence	☐	☐	☐	☐	☐
R3. I'm concerned about product authenticity when shopping online	☐	☐	☐	☐	☐
R4. Return and refund processes are easier in offline stores	☐	☐	☐	☐	☐
R5. I worry about data security and privacy in online transactions	☐	☐	☐	☐	☐
Experiential Value					
E1. Shopping in physical stores is an enjoyable experience for me	☐	☐	☐	☐	☐
E2. I value the social interaction that comes with offline shopping	☐	☐	☐	☐	☐
E3. Store ambiance and environment influence my shopping satisfaction	☐	☐	☐	☐	☐
E4. Assistance from salespersons enhances my shopping experience	☐	☐	☐	☐	☐
E5. Immediate possession of products (no delivery wait) matters to me	☐	☐	☐	☐	☐

Section D: Channel Preference and Omnichannel Behavior

15. Overall, which channel do you prefer for most of your shopping?

☐ Online ☐ Offline ☐ No strong preference (depends on situation)

16. How often do you research products online before buying them in physical stores (webrooming)?

☐ Always ☐ Often ☐ Sometimes ☐ Rarely ☐ Never

17. How often do you examine products in physical stores before buying them online (showrooming)?

☐ Always ☐ Often ☐ Sometimes ☐ Rarely ☐ Never

18. For each product category, indicate your primary channel:

Category	Primarily Online	Primarily Offline	No Preference
Electronics	☐	☐	☐
Fashion/Apparel	☐	☐	☐
Groceries	☐	☐	☐
Books	☐	☐	☐
Home Décor	☐	☐	☐
Jewelry	☐	☐	☐
Beauty/Personal Care	☐	☐	☐
Sports/Fitness	☐	☐	☐

19. How satisfied are you with your online shopping experiences?

☐ Very Satisfied ☐ Satisfied ☐ Neutral ☐ Dissatisfied ☐ Very Dissatisfied

20. How satisfied are you with your offline shopping experiences?

☐ Very Satisfied ☐ Satisfied ☐ Neutral ☐ Dissatisfied ☐ Very Dissatisfied

21. How likely are you to continue using online channels for future purchases?

☐ Very Likely ☐ Likely ☐ Neutral ☐ Unlikely ☐ Very Unlikely

22. How likely are you to continue using offline channels for future purchases?

☐ Very Likely ☐ Likely ☐ Neutral ☐ Unlikely ☐ Very Unlikely

23. Additional comments or suggestions about your shopping preferences: