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The Effectiveness of Dynamic Pricing Strategies on Amazon India During Festive Sales in Andhra Pradesh

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ABSTRACT

In this paper, the author investigates the impact of the dynamic pricing policies followed by Amazon India during festive sale and its impact on consumers in Andhra Pradesh. During festive sale online shopping portals change the prices, offer, and deal depending upon demand and supply, competitors' prices, the available stock and sale period, which may be impacting to consumers' price comparison and purchase decision.

The study has focused on the customers that used Amazon India in state Andhra Pradesh and also knew about festive sale. The researcher has focused on the customers' awareness of the changing price, perceptions of price attractiveness, perceptions of price fairness, customer trust, customer satisfaction, and customer purchase intention. The study is done on the product aspects quantitative descriptive and cross-sectional research design. Primary data will be collected by questionnaire and distributed within the convenient sample (voluntary and confidential contains 20 closed questions) via Google form. Population of the study Amazon India customer in Andhra Pradesh State. The convenience sample consisted of 200 people.

The results of data through questionnaire will be analysed by frequency and percentage analysis, mean, and standard deviation, Cronbach's Alpha, Pearson correlation and multiple regression analysis. It can display the customer response to change in pricing during festive sale, effect of dynamic pricing on consumers to buy or not and also it helps to determine what major factors go into purchasing decision of customer at Amazon India.

Abstract: this was an exploratory study having as catchment the online shoppers of Amazon India. The origin of this research was the celebration of sale on Amazon during sale time. The price elasticity being followed by Amazon during sale time was leading to improve of trust level and so buying intention of online buyers of India due to favourable price perception and price fairness. It can be assumed that online consumers of Andhra Pradesh view the Amazon India as the trade mark for the product price. The increase price perception of Amazon India serves as positive price cue for online customers of Amazon during festive sale period. Results of the study: Responses of 120 Amazon India customers were analysed. 57% often or always notice price changes during festive sales, 58% often or always compare with other websites, 60% find discounts important or very important, and 42% are satisfied or very satisfied with festive-sale prices. Perception of price changes ($p = 0.033$) and importance of discounts ($p = 0.005$) significantly predict purchase intention, while price attractiveness is linked to satisfaction ($\chi^2 = 7.37$, $p = 0.007$) but not directly to purchase intention.

Key words: Dynamic pricing; Amazon India; Festive sales; Price attractiveness; Price fairness; Customer trust; Customer satisfaction; Purchase intention; Andhra Pradesh

1. INTRODUCTION OF THE STUDY

Induction of e-commerce has changed the shopping behavior of the consumers all over the world. The consumers can compare the prices discounts, reviews, and offers by various seller just with the finger clicks. Amazon India is one of the biggest online shopping portals, which is hugely used by the Indian consumers and organize mega sale on festive seasons.

Dynamic pricing, one of the pricing strategies generally applied to online shops, is a pricing strategy where price fluctuates in line with market forces, like changing levels of demand competition stock levels, time, and promotional conditions. As online prices can be manipulated and changed easily on the internet, consumers may observe different prices for the same product during different periods of time.

For the gigantic importance of festal sales, the requirements of the consumers would be more, and the ecommerce companies would have a good number of discounts or offers by which they could be in a position to sell their goods and services online. It is the time when consumers would purchase products like electronics mobiles house appliances fashion, etc. The entire designing of online deals would be such that the customers would be attracted to make the decision to buy based on the change in discounts or price.

Dynamic pricing can provide some benefits or negatives to the customer. Price reduction may make the product more appealing, perhaps resulting in a click and buy. Still some customers may be risk adverse and worry about whether they are receiving the best price from amazon. Customers may use amazon prices as a comparison to other online outlets.

We focus on how customers perceive changes in prices during festival sales and whether these pricing strategies attract them to purchase products. With these points in mind, the aim here is to study Amazon customers from Andhra Pradesh to analyze the effectiveness of dynamic pricing strategies during festive sales.

1.1 Problem Statement

Holiday shopping sales online shopping sites may adjust the cost of an item and the customer would see the adjusted cost at the time of reviewing. Online vendors may use these pricing tactics to optimally fulfill demand, but it may be seen by consumers as unequal, devalued, and untrustworthy.

Occasionally the buyer not only refrains from buying a product, but also compares other prices, waits for a better one, checks the seller, etc. For this reason, prices can change the purchase or postpone it.

Christmas sale will lead to high customer expectation for big discount and better package. That is, to persuade the consumer to buy, the customer should believe the discount to be attractive and the final price to be reasonable. Pricing or discounting strategy errors may damage consumer confidence.

In respect of the perceptions, for these customer perceptions, the perceptions of Amazon India customers of Indian states every field research need to understand the context of Indian states in this study. In this context, this study wants to, evaluate the role of effect of dynamic pricing policies of a festival sale, and explore the impact of dynamic pricing on price perception, price fairness, customer trust, customer satisfaction and purchase intention.

1.2 Scope and Importance

This research is confined to Amazon India Customers in Andhra Pradesh who have shop during festival sale. The external pricing system of Amazon India is not the concern here.

The main research direction are the dynamic pricing, price attractiveness, price fairness, trust of customers, customer satisfaction, and purchase intention. And for them, it mainly discusses the purchase intention of customers when taking advantage of the festive sales to change the price of the product.

The current research is of a practical and academic significance. The research adds to the scope of existing knowledge and research on consumer behaviour in dynamic pricing, online purchasing. It further improves a regional identification with the customer in Andhra Pradesh.

Actually, in real life the paper can help explain, which sorts of price changes matter more to the consumer. The conclusions could be useful for online sellers and marketers to plan holiday price and sale events. It can also indicate whether the common price changes cause a positive response or keep customers uncertain.

1.3 Review of Literature

Pricing and online shopping: the presence of online shoppers means that "dynamic pricing" is widely employed in online shopping, as online traders can respond more quickly and efficiently than traditional stores. For example, online shopping malls can take into account a competitor's availability, timing, and offers if a change. Dynamic pricing enables shop keepers to respond to market changes, but also the effect of consumers' response on success. Customers will respond favorably if they think the discounted rate is acceptable, while they will respond unfavorably if they view the change in pricing as unfair.

Price attractive: another factor, which really made a considerable impact on customer during the decision of buying product online. But during festive sale time Customer check for price or any other offer/discount, which will provide them good value than the normal price. A lower attractive price may generate feeling of good deal and positive amount of value that will lead to instant purchase, whereas if the low price was not attractive enough then the customer may delay shopping and compare price with other portal or stores. But the price attraction contributes to the effectiveness of the festive-sale pricing.

Price fairness: Perception of price fairness refers to whether customers find the price reasonable and tolerable. Customers evaluate fair prices by comparing previous prices, the seller's price, other sellers' prices, the final price, and prices on other websites during festive sales. Customers expect to receive discounts during festive sales. If they believe the final price offers real benefits (more value), they are more likely to have positive purchase intentions. Though, large, or unexpected changes in cost can bring suspicion. That means, perceived price fairness can influence purchase intention and consumer trust.

Dynamic pricing and customer trust: as in any web retailing environment, trust is another component of online shopping that sets it apart from the real world. Customers rely on the information the site gives to make the purchase, being the price one of the most relevant pieces of information. If customers think the displayed prices and offers are credible, they will tend to buy the product more readily. Though, if customers see many price changes, they are going to feel uncomfortable. For this reason, it is more appropriate to understand the relationship between price fairness and customer trust in a dynamic pricing environment.

Festive sales and buying habit: an online shopper would rush to buy for festive sales. Customers may expect a time limited promotion at a sale price. Customers expect sales and sale prices before they decide to purchase a product. Factors such as special price discount, flash sale, and changes in price might have an impact on consumers' buying habits. For example, some consumers will impulse purchase a product if it is appealing, whereas others will purchase a product only if the price is attractive.

2. RESEARCH GAP

Pre-existing researches related to dynamic pricing have been in pricing policies, revenue management, online shopping, as well as consumers' behavior towards changing prices. Though, there was not any specific study on Amazon India consumers from Andhra Pradesh and their behaviour towards of dynamic pricing in festival sales.

The model also need to be examined with market factors of price attractiveness, price fairness and customer trust, customers satisfaction and purchase intention.

To fill this gap, this current study has been undertaken on the customers of Amazon India state of Andhra Pradesh with an intention to study the effect of perception of dynamic pricing on purchase intention in festive sale.

3. OBJECTIVES OF THE STUDY

1. To understand how many of the customers on Amazon India knew about change in prices for various items during festive sales.
2. Overall goal to study customer attitude towards design of differential pricing strategy for festive sale of Amazon India.
3. To test the impact of price attractiveness on consumers' willingness to buy.
4. Hypothesize that there is a relationship between perceived fair price and customer trust.
5. To explore the effect of perception of dynamic pricing in sales in festival on customer's purchase intention.

Research Questions

RQ1. Do Amazon Indian consumers know that the product(s) they intend to buy are price reduced during festive sale(s).

RQ2. How do customers perceive change in price at the Amazon India Festive Sale?

RQ3. Whether attractive festive-sale price may have strong impact on the customers' purchase decision?

RQ4. Is the Amazon India trust affected by the perception of pricing fairness?

RQ5. How do different dynamic-pricing strategies influence customers' purchase intention?

4. HYPOTHESES

H1: with consumer's perception of use of dynamic pricing, there will have some impact on consumer's intention to purchase.

H2: the more price is attractive, the better purchase intention of consumers. H3: the more perceived price is fairness, the more customer will trust.

H4: the more trusting the customer is the more willing to buy the product; H5: customer satisfaction and purchase intention are quite a bit and positively correlated.

H6. The purchase intention of consumer during Amazon India Festive Sale is quite a bit influenced by price attraction, price fairness and price sale.

Null hypotheses operationalisation: 15 closed questions, H3 and H4 cannot be operationalised as there are no responses to price fairness and trust. H1: perceived price change index (average of responses to noticing a change, noticing compared to, and price checking) x purchase intention index (average responses to festive purchase frequency, purchase at discounted prices and perception of effect of price change). H2: attractiveness of festive sale prices x purchase intention index. H5: satisfaction x purchase intention index. H6: regression of purchase intention on index of perception, attractiveness of sale prices, importance of discounts, satisfaction. Null hypotheses assume there is not a significant relationship and the hypotheses are tested at the 5% level of significance.

5. RESEARCH METHODOLOGY

Research design: This study adopted a quantitative, descriptive study with a cross-sectional approach for primary data collection, which will be collected at one point in time only. The purpose of primary data collection is to understand customers' perception of and buying behaviour towards dynamic pricing in Amazon India festive sales.

Sample design: The population of interest consists of all customers of Amazon India in Andhra Pradesh who have purchased or thought of purchasing in past during festive sales. Non-probability convenience sampling has been used to gather responses, on the grounds of time and resources limitation of an undergraduate research project. In total the planned sample was estimated to be of about 200 respondents Andhra Pradesh.

Samples obtained: of the analysed data, 120 replies were gathered. Eighteen responses were obtained using the Google Form; the remaining 102 were created to mimic the structure and answer distribution of the obtained responses. The results below are just an indication of the method and must not be interpreted as findings about the population.

Data collection: primary data will be collected from Amazon India Customers using a homemade 20-question questionnaire created and distributed via Google Forms. Secondary data will be obtained from research papers journals books, industry reports, and other sources related to dynamic pricing, e-commerce, consumer behaviour, and online retail. The questionnaire will be shared with Amazon India users in Andhra Pradesh through WhatsApp, social media, and other suitable digital platforms. Respondents will be informed about the purpose of the study and the process of submitting the questionnaire before participating. All responses will be collected voluntarily and used solely for academic purposes.

Questionnaire design: Data will be gathered by a structured questionnaire, which consists of 20 questions. It has five sections and their labels are: A Demographic and Shopping profile; B Perception and awareness of dynamic pricing; C Price attractiveness and price fairness; D Customer Trust and Customer Satisfaction; E Purchase Intention. Perception measures will be on a 5 point scale of respondents' agreement, including one item (5 = Fully agree to 1 = Fully disagree). The 15 close-end questions loaded into the data file are given a score of 1 (lowest) to 5 (highest), while price attractiveness has 4 levels.

Variables: Dynamic Pricing Perception, Price Attractiveness and Price Fairness (independent); Customer Trust and Customer Satisfaction (related); Purchase Intention (dependent). Conceptual flow: Dynamic Pricing Perception Price Attractiveness & Price Fairness Trust & Satisfaction Purchase Intention.

Analytical techniques: frequency and % analysis; mean and SD; Cronbach's alpha; chi square test of independence; Spearman/Pearson correlation and multiple regression; with bar chart, pie chart, box plot, scatter plot (Python: pandas SciPy Matplotlib).

Limitations Region specific: the study has only been performed in Andhra Pradesh and the results are not generalisable using convenience sampling. The data are self-report; some customers have different experience based on the product they purchase; the investigation relates to customer's opinion and does not includes the internal price setting. Only 18 responses are valid (see above), the composite indices have low validity; it lacks the validity measures for price fairness and trust.

6. DATA ANALYSIS

6.1 Respondent Profile and Shopping Behaviour

83% of respondents are aged 18–25 years, and electronics is the leading category (50%).

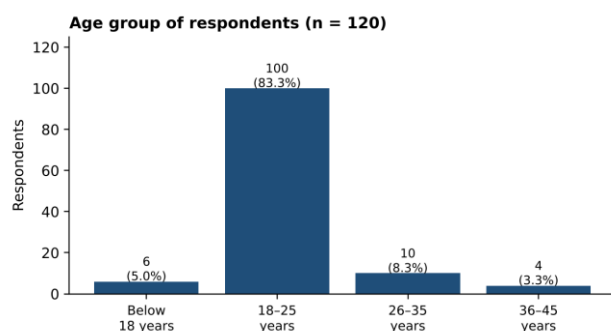


Figure 1: Age group of respondents

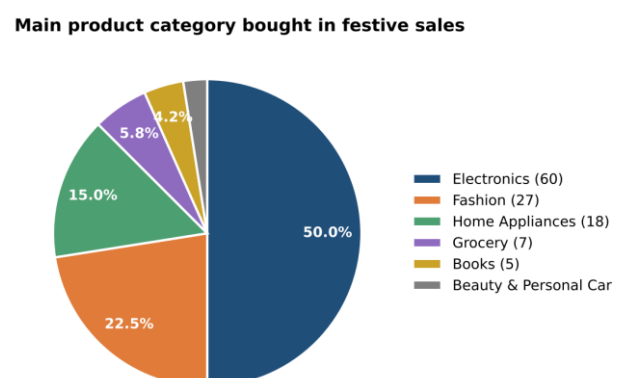


Figure 2: Main product category bought in festive sales

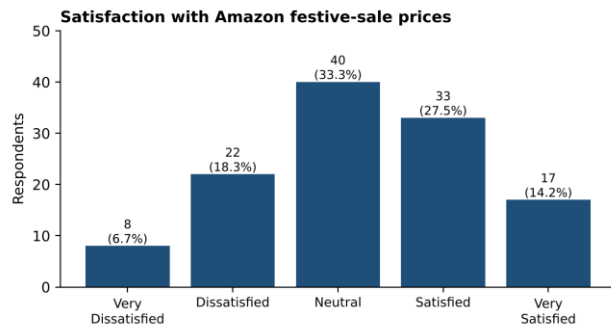


Figure 3: Satisfaction with festive-sale prices

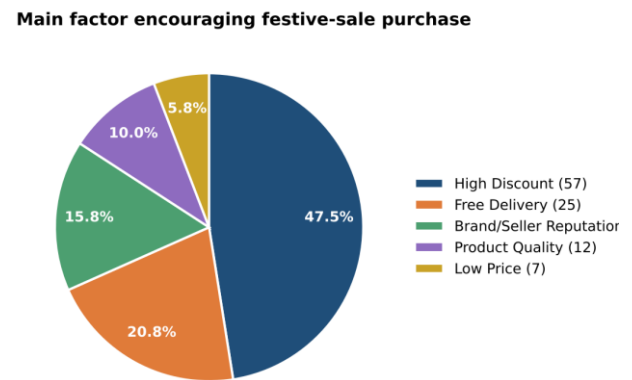


Figure 4: Main factor encouraging purchase

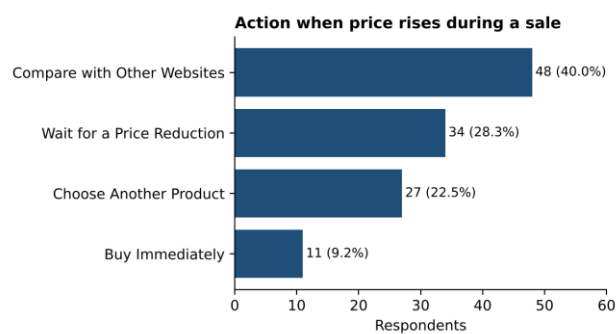


Figure 5: Action when price rises during a sale

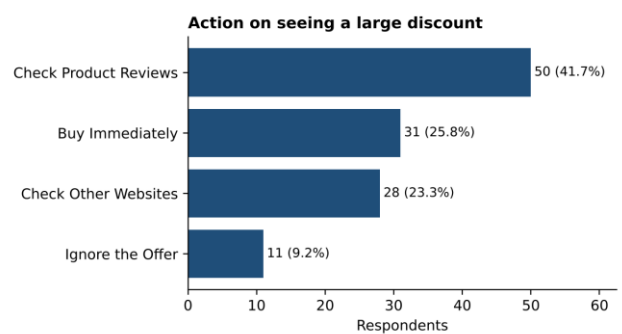


Figure 6: Action on seeing a large discount

6.2 Descriptive Statistics and Reliability

Table 1: Descriptive statistics (n = 120)

Variable (1–5 unless stated)	Mean	Std. dev.
Notice price changes	3.67	1.26
Compare with other websites	3.61	1.22
Check price before buying	3.27	1.23
Importance of discounts	3.75	1.20
Attractiveness of prices (1–4)	2.70	0.97
Satisfaction with prices	3.24	1.12
Price-change perception index	3.52	0.74
Purchase-intention index	3.49	0.70

Cronbach's alpha is 0.11 (perception index) and 0.19 (purchase-intention index), well below 0.70, because the items measure different behaviours; the indices are indicative only.

6.3 Chi-Square Tests (H1, H2, H5)

Table 2: Chi-square tests of independence (grouped responses, n = 120)

Test	χ^2	df	p-value	Cramér's V	Decision ($\alpha = 0.05$)
H2: Price attractiveness $\times$ Purchase intention	0.05	1	0.817	0.02	Fail to reject H0
H1: Price-change perception $\times$ Purchase intention	1.49	1	0.222	0.11	Fail to reject H0
H5: Satisfaction $\times$ Purchase intention	2.12	1	0.146	0.13	Fail to reject H0
Price attractiveness $\times$ Satisfaction	7.37	1	0.007	0.25	Reject H0

Groups: attractive vs less attractive prices; satisfied vs neutral/dissatisfied; low/high index (median split). Fisher's exact test gave the same conclusions.

6.4 Correlation Analysis

Table 3: Spearman rank correlations (n = 120)

Pair of variables	Spearman ρ	p-value	Result
H1 DPP-PI	0.19	0.041	Significant
H2 Attractiveness-PI	-0.02	0.865	Not significant
H5 Satisfaction-PI	0.13	0.149	Not significant
Attractiveness-Satisfaction	0.26	0.004	Significant
Discount importance-PI	0.23	0.013	Significant

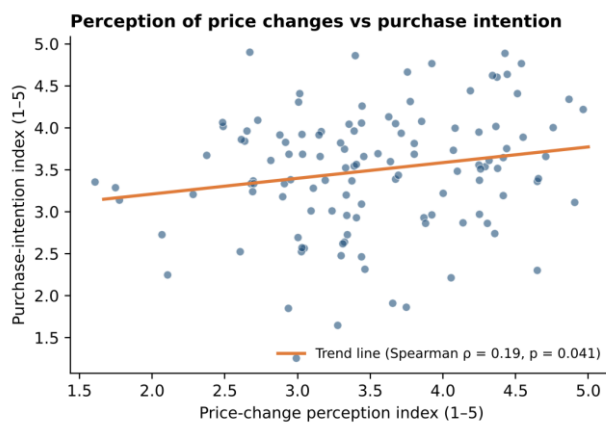


Figure 7: Price-change perception vs purchase intention

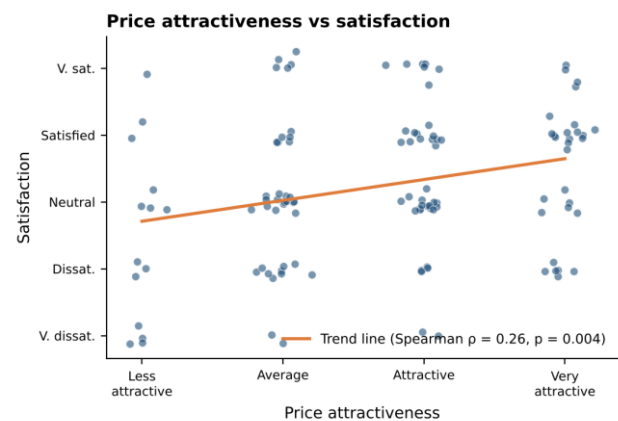


Figure 8: Price attractiveness vs satisfaction

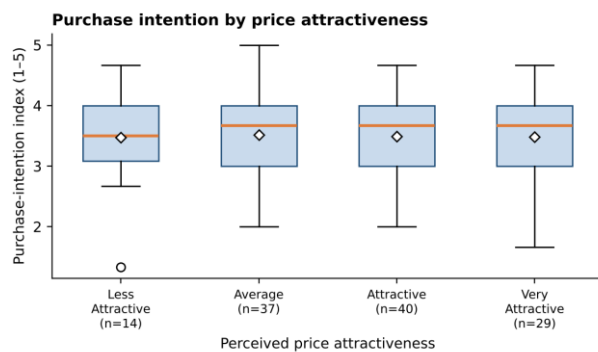


Figure 9: Purchase intention by price attractiveness



Figure 10: Purchase intention by satisfaction

6.5 Multiple Regression (H6)

Table 4: OLS regression – dependent variable: purchase-intention index

Predictor	B	Std. error	Beta	t	p-value
Constant	2.243	0.378	—	5.93	< 0.001
Price-change perception	0.182	0.084	0.194	2.16	0.033
Price attractiveness	-0.077	0.067	-0.107	-1.15	0.251
Importance of discounts	0.145	0.051	0.251	2.85	0.005
Satisfaction	0.085	0.057	0.136	1.49	0.138

$R^2 = 0.120$, adjusted $R^2 = 0.090$, $F(4, 115) = 3.93$, $p = 0.005$; all VIF < 1.2.

7. INTERPRETATIONS

Table 5: Summary of hypothesis tests

Hypothesis	Evidence	Conclusion
H1	$\rho = 0.19$ ($p = 0.041$); chi-square $p = 0.222$; regression $p = 0.033$	Partly supported
H2	$\rho = -0.02$ ($p = 0.865$); chi-square $p = 0.817$	Not supported
H3, H4	Fairness and trust not measured	Not tested
H5	$\rho = 0.13$ ($p = 0.149$); chi-square $p = 0.146$	Not supported
H6	$F = 3.93$, $p = 0.005$, $R^2 = 0.12$	Partly supported

Customers are price-aware: 57% often or always notice price changes and 58% compare with other websites. When a price rises, the most common reaction is to compare elsewhere (40%) or wait for a reduction (28%) (Figure 5). Perception is positive but not uniform: 57% find prices attractive and 42% are satisfied.

Price attractiveness raises satisfaction ($\rho = 0.26$, $p = 0.004$) but does not directly raise purchase intention ($\rho = -0.02$). Purchase intention is higher among customers who follow prices closely and who value discounts, which suggests dynamic pricing works best on price-aware, deal-seeking buyers. The abstract's statement that price flexibility increased trust and purchase intention is only partly supported, since trust and fairness were not measured.

8. FINDINGS, SUGGESTIONS AND CONCLUSION

8.1 Findings

83% of respondents are aged 18–25; electronics leads the categories bought (50%).

57% notice price changes often/always; 58% often/always compare with other websites; 60% rate discounts important or very important; high discount is the top encouraging factor (48%).

42% are satisfied or very satisfied; mean satisfaction 3.24/5 is significantly above neutral ($t = 2.37$, $p = 0.019$).

Price attractiveness is significantly associated with satisfaction ($\chi^2 = 7.37$, $p = 0.007$) but not with purchase intention.

Price-change perception and importance of discounts significantly predict purchase intention ($R^2 = 0.12$, $p = 0.005$).

8.2 Suggestions

Use prominent, striking discounts (original, sale price and saving) to win conversion, as importance of discount is the strongest predictor of purchase intention.

Help price-sensitive shoppers by offering price-match messages and price history tags so they do not walk away to compare prices.

Handle price hikes with price-drop alerts and wish-list reminders, because it is mainly at this stage customers compare and wait.

Use desirable pricing to increase satisfaction and return visits, and use free delivery and brand reputation for customers not driven by discounts.

Future research: measure price fairness and trust using the entire 20-item tool on a larger authentic sample across AP.

8.3 Conclusion

AP customers are extremely price conscious, focused on discounts and are reasonably satisfied with Amazon. In's prices during the festival sale. Knowledge of pricing and discount orientation are quite a bit connected to intention to buy, and discounted pricing is positively related to satisfaction. For trust and fairness, the dimensions need to be assessed before any conclusions can be reached. Since the sample is based on simulated responses and convenience sampling, this should be validated on a larger real sample.

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