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Analysis of Factors Affecting E-Commerce Sales: A Study of Delhi

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ABSTRACT

The internet has brought about a potent change in the way consumers are interacting with the manufacturers through enabling technologies like Electronic Data Interchange and payment systems like UPI (Unified Payments Interface) and Electronic Funds Transfer (EFT). Rapid access to internet throughout the country has helped the companies to penetrate markets which were hitherto not possible. Since 1991 post liberalization till recently, E-Commerce has lured the customer to itself due to various factors. The major objectives of the research study wereto explore factors which influence E-commerce sales and to analyze the impact of factors which influence E-commerce sales. For analysis a sample size of 300 was decided and out of 300 total of 285 responses were acknowledged and after discarding prejudiced responses for the statistical analysis final sample size of 282 was considered and Hypotheses testing was done by application of Multiple Regression.

Keywords: E-commerce, Customer etc.

Introduction

The advent of E-Commerce has brought about a ubiquitous change in the way products are bought and sold in the market. The internet has brought about a potent change in the way consumers are interacting with the manufacturers through enabling technologies like Electronic Data Interchange and payment systems like UPI (Unified Payments Interface) and Electronic Funds Transfer (EFT). Rapid access to internet throughout the country has helped the companies to penetrate markets which were hitherto not possible. Since 1991 post liberalization till recently, E-Commerce has lured the customer to itself due to various factors.

The major online domains are Business to Consumer (B2C) wherein businesses sell goods and services online to final consumers, the consumers can buy almost anything online-from clothing,gadgets,airline and railway tickets to computers and cars. With growing accessibility and increasing penetration of internet in India around 24% of the population is purchasing online today. As more and more people find their way onto the world wide web, the population of online consumers is becoming more mainstream and diverse. Many companies use the Business to Business (B2B) websites, e-mail, online product catalogs, online trading networks and other online resources to reach new business customers. They provide product information, customer purchasing and customer support services online. A lot of Consumer to Consumer (C2C) websites facilitate online exchange of goods and information through exchange of communication on the Web between interested parties over a wide range of products and services. The final online domain, is Consumer to Business (C2B) wherein there is online exchanges in which consumers search out sellers, learn about their offers and initiate purchases and give feedback.

E-Commerce is an embodiment of the changing times of the ways of doing commerce electronically. It has brought a paradigm change to the way goods and services are bought and sold in the market. The customers who buy electronically generally research online before buying, use mobile devices, pay online through credit cards and majority of them buy clothes and electronic products online (Trobjoin, 2013). Therapid growth of ecommerce has been fueled by various factors like:

- Increasing penetration of internet and broadband spectrum including 4G and advent of 5G technology availability, thereby improving net usage.
- > Rising standards of living and increase in average income of the people especially the middle class having high disposable incomes.
- > Payment options like net banking and cash on delivery, envisaging convenience and trust to the consumer.
- Emphasis on distribution logistics which entails tracking details and reliable delivery systems.
- Access to new technological developments like use of AI (Artificial Intelligence) enabling an enhanced user experience.
- > Many types of government initiatives to support development of modern technology to harness the growth potential of E-Commerce.
- Availability of a much wider product assortment compared to what is available offline.
- > Willingness and ability of the people to adopt to new technology due to increase in literacy level.

The E-Commerce gateway provides leverage of low overheads, low maintenance, worldwide market, 24x7 operations, growing demand for goods available online, affordable advertising, advantages for medium and small sellers and brings a faster response to changes in buyers' preferences to the online sellers.

E-Commerce players have entered in a variety of areas like:

- Health Tech-Portea, Healthkart, Netmeds.
- FinTech- Paytm, Freecharge ,PhonePe ,Mobikwik ,Google Pay.
- Entertainment- Book Myshow, Netflix, Dailymotion, Spotify, Disney+.
- **Tourism**-Make my Trip, IRCTC,Goibibo,Yatra,EasemyTrip.
- Education-BYJU's, Unacademy, Coursera, National Geographic Kids.
- **E-Tailing**-Amazon, Flipkart, Snapdeal, Myntra, Jabong.

Review of literature

Sharma (2013) stressed on the need to study trends, influences, preferences of customers towards E-Commerce and online shopping and also gave suggestions to improve online shopping websites. This study also reiterated the fact that most of the online consumers are of the age group 21-30 years, thus the websites should be planned accordingly keeping this in mind. Mitra (2013) attempted to study the status and facilitators of E-Commerce in India, analyze the trends and barriers to E-Commerce in India. The study found that major Indian companies have embraced E-Commerce in a big way and their portal sites have also shifted towards E-Commerce instead of solely depending on advertising as a tool of promoting their products. Chanana and Goele (2012) attempted to study the overview of the future of E-Commerce in India and discusses the future growth prospects and factors which will define its progress. They also stated that overall, the growth of E-Commerce will increase exponentially in all the emerging markets.Ray (2011) discussed the chronological evolution of E-Commerce, categorization and description of businesses that are actively doing E-Commerce in India. The author also stated that the role of the government is to outline a legal framework for conducting businesses legally in E-Commerce, which should envisage the basic rights such as privacy, intellectual property, prevention of cyber fraud and consumer protection rights. Al-Adwanet.al (2019) studied the pertinent benefits of e-commerce applications and activities available in a mobile environment and their accessibility through mobile devices. These smart devices have propagated the adoption of e-commerce sites and online shopping due to their inherent convenience and personalized approach. In another article they have delved on the omnipresence character of mobile commerce which provides seamless connectivity regardless of customer locations. Through internet enabled mobile devices, consumers are no longer restricted by time and place. Nair (2013), expresses there is increased usage of mobile devices due to penetration of internet across various segments of the society. The shifting of the customers' preferences from traditional model to digital model of transactions will accelerate the adoption of e-commerce . "E-Commerce has a very strong impact on the world economy, the pricing, availability of products and method of transportation on customer behavior". Kazami and Saeedy (2019) stressed on the fact that e-commerce helps to improve the marketing practices, manufacturing processes and supply chain significantly. (2020), states that payment gateways like Amazon pay, Google Pay etc. have provided a tremendous impetus to customers to leverage technology without manually entering detailsof debit or credit cards. This enables asmooth checkout process thereby enhancing the customer experience on e-commerce platforms.

Objectives of the Study

- 1. To explore factors which influence E-commerce sales.
- 2. To analyze the impact of factors which influence E-commerce sales.

Hypotheses of Study

- Hal: Competitive pricing strategies significantly influences E-commerce Sales.
- Ha2: Availability of quality product/service significantly influences E-commerce Sales .
- Ha3: Quick shipping with low cost significantly influences E-commerce Sales .
- Ha4: Availability of online customer reviews significantly influences E-commerce Sales .
- ${\it Ha5: Availability of ease of return policies significantly influences \ E-commerce \ Sales} \ .$
- Ha6: Availability of loyalty rewards significantly influences E-commerce Sales .
- Ha7: Ease of Navigation significantly influences E-commerce Sales .

Ha8: Word-of Mouth recommendations significantly influences E-commerce Sales.

Ha9: Ease of Check out significantly influences E-commerce Sales.

Theoretical Model

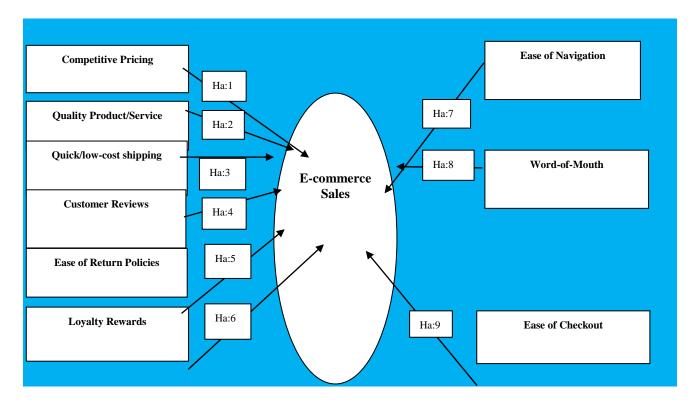


Figure 1: Proposed Model

Research Methodology

- > Research Theme:
- Exploratory Research.
- Universe of Study:
- Delhi.
- ➤ Focus of Study:
- Factors influencing E-commerce Sales.
- Sampling Technique used:
- Convenience Sampling: It is defined as a technique implemented by investigators where they gather data for market research by means of
 conveniently accessible respondents.
- For analysis a sample size of 300 was decided and out of 300 total of 285 responses were acknowledged and after discarding prejudiced responses for the statistical analysis final sample size of 282 was considered.
- For Hypotheses testingMultiple Regression was used. (SPSS Version 25).

Analysis & Results

Table 1:

Case Processing Summary								
		N	%					
Cases	Valid	282	98.9					
	Excluded ^a	3	1.1					
	Total	285	100.0					

a. Listwise deletion based on all variables in the procedure.

Table 2:

Reliability Statistics						
Cronbach's Alpha	N of Items					
.752	10					

Cronbach Alpha value of all 10 items is .752, which emphasized a decentinerronstancy of all the variables of the research study, as it came above the threshold value of .70.

Table 3:

Item-Total Statistics				
	Scale Mean if Item	Scale Variance if	Corrected Item-	Cronbach's Alpha if
	Deleted	Item Deleted	Total Correlation	Item Deleted
1. Competitive pricing strategies	37.10	19.890	.408	.734
influences e-commerce sales.				
2. Availability of quality	37.31	19.532	.296	.750
product/service influences e-				
commerce sales.				
3. Quick shipping with low cost	37.15	19.871	.323	.744
influences e-commerce sales.				
4. Availability of online customer	37.42	20.045	.293	.748
reviews influences e-commerce				
sales.				
5. Availability of easy return	37.13	18.944	.449	.728
policies influences e-commerce				
sales.				
6. Availability of loyalty rewards	37.82	18.040	.454	.726
influences e-commerce sales.				
7. Ease of navigation influences e-	37.53	17.901	.573	.709
commerce sales.				
8. Word-of-mouth	37.73	18.105	.450	.727
recommendations influences e-				
commerce sales.				
9. Ease of check-out	37.74	18.258	.433	.730
recommendations influences e-				
commerce sales.				

10. E-commerce sales are	37.18	19.008	.497	.722
influenced by competitive pricing,				
quality of products, word of mouth,				
online reviews, quick shipping, ease				
of navigation and ease of use, ease				
of check-out and presence of loyalty				
rewards.				

Table 4:

					Correl	ations					
		E-		Quality	Quick/loe		Easy				
		commerce	Competitiv	product/ser	cost	Customer	return	Loyalty	Ease of	Word-of-	Ease of
		sales	e pricing	vice	shipping	reviews	policies	Rewards.	navigation	mouth	check-out
Pearson	E-	1.000	0.175	0.135	0.290	0.177	0.316	0.313	0.325	0.403	0.330
Correlation	commerce										
	sales										
	Competitiv	0.575	1.000	0.598	0.206	0.241	0.340	0.226	0.269	0.237	0.200
	e pricing										
	Quality	0.535	0.598	1.000	0.234	0.064	0.211	0.081	0.305	0.253	0.081
	product/ser										
	vice										
	Quick/loe	0.590	0.206	0.234	1.000	0.092	0.299	0.101	0.146	0.172	0.167
	cost										
	shipping										0.400
	Customer	0.577	0.241	0.064	0.092	1.000	0.304	0.203	0.221	0.068	0.189
	reviews	0.540	0.040	0.044	0.000	0.004	4 000	0.070	0.045	0.000	0.004
	Easy	0.516	0.340	0.211	0.299	0.304	1.000	0.276	0.315	0.082	0.204
	return										
	policies Loyalty	0.313	0.226	0.081	0.101	0.203	0.276	1.000	0.427	0.314	0.344
	Rewards.	0.515	0.220	0.061	0.101	0.203	0.276	1.000	0.427	0.314	0.344
	Ease of	0.525	0.269	0.305	0.146	0.221	0.315	0.427	1.000	0.417	0.559
	navigation	0.020	0.203	0.505	0.140	0.221	0.515	0.421	1.000	0.417	0.000
	Word-of-	0.403	0.237	0.253	0.172	0.068	0.082	0.314	0.417	1.000	0.310
	mouth	0.400	0.207	0.200	0.172	0.000	0.002	0.014	0.717	1.000	0.010
	Ease of	0.530	0.200	0.081	0.167	0.189	0.204	0.344	0.559	0.310	1.000
	check-out										

Out of nine predictors in the model seven predictors demonstratedrobustcorrelation with the research study's dependent variable (E-commerce Sales) i.e., Competitive Pricing, Quality Product/Service, Quick/ low-cost shipping, Customer Reviews, Easy return policies, Ease of navigation, and ease of Check-out with the values of 0.575, 0.535, 0.590, 0.577, 0.516, 0.525 and 0.530 respectively.

Within the set of predictors:

• Quality of product/service & competitive pricing and Ease of navigation & Ease of check-out (.598) and (.559) respectively.

Table 5:

Model Summary									
Std. Error Change Statistics									
	Adjusted R of the R Square Sig.							Sig. F	
Model	R	R Square	Square	Estimate	Change	F Change	df1	df2	Change
1	.552ª	0.305	0.282	0.629	0.305	13.268	9	272	0.000

Table 6:

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	47.315	9	5.257	13.268	.000 ^b
	Residual	107.777	272	.396		
	Total	155.092	281			

a. Dependent Variable: E-commerce sales

Table 7: Coefficients

		Unstand Coeffi		Standardiz ed Coefficient s		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	1.516	0.353		4.292	0.000
	Competitiv e pricing	-0.061	0.063	-0.055	-0.972	0.332
	Quality product/ser vice	-0.034	0.045	-0.042	-0.758	0.049
	Quick/loe cost shipping	0.152	0.051	0.162	2.962	0.003
	Customer reviews	0.043	0.051	0.046	0.850	0.396
	Easy return policies	0.173	0.055	0.189	3.166	0.002
	Loyalty Rewards.	0.071	0.045	0.094	1.582	0.115
	Ease of navigation	0.046	0.055	0.053	0.826	0.410
	Word-of- mouth	0.220	0.045	0.289	4.883	0.000
	Ease of check-out	0.099	0.044	0.129	2.265	0.024

The result of table 4 portrays testing the fit of the model. In the model summary table, value of multiple correlation (R) is .552, with a corresponding value of R square of .305, signifying that 31% of the variance is elucidated by set of predictors. R square change is also .305. The value of adjusted R square value is .282.ANOVA depicts the test of statistical significance of the regression model. The research model comprises of noteworthysum of research study's dependent variable variance, F(1,272)=13.268, p<.001. The total degrees of freedom are: N-1 i.e., 282-1=281, parting 272 degrees of freedom for the error term.

Table 6: shows the coefficients for the variables in regression model.

Only five predictors proved to be statistically significant (p<.05) in this model i.e., Quality product/ service, Quick/low-cost shipping, Easy return policies, Word-of-mouth and Ease of

Check-out has the highest correlation with the dependent variable of E-commerce sales.

b. Predictors: (Constant), Ease of check-out, Quality product/service , Customer reviews , Quick/loe cost shipping , Competitive pricing , Loyalty Rewards., Word-of-mouth , Easy return policies , Ease of navigation

Conclusion

In the light of results achieved after reliability analysis and Regression and correlation analysis, it can be seen that only five predictors proved to be statistically significant (p<.05) in this model i.e., Quality product/ service, Quick/low-cost shipping, Easy return policies, Word-of-mouth and Ease of Check-out has the highest correlation with the dependent variable of E-commerce sales. The sample size used in the study does not represent the scenario of whole India. In future this research study will inculcate more variables and a bigger sample size to deliver sustainable results for further research.

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