Online Shopping Adoption in Delhi NCR – An Empirical Study

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Abstract

About 40 million consumers purchased products and services online this year and with better infrastructure in terms of logistics, broadband and internet-ready devices, the number is expected to grow to 65 million by the end of 2015. Improved accessibility to the internet and world wide web have made it easier and cheaper for businesses and consumers to interact and conduct commercial transactions electronically as compared the traditional approach of visiting retail stores. Primary data has been collected from respondents engaging in online purchases on 31 parameters which were then reduced to a fewer number of factors through factor analysis. This research offers insights into the linkage between e-shopping and customers' decisions to shop or not shop online. This information can help online marketers and retailers develop appropriate market strategies, design and implement technological initiatives and take the right decisions to retain current customers and attract new customers. If online marketers and retailers can better understand their customers, they can improve their product and service offerings and strengthen their competitive advantage. An E-M Online Shopping Adoption Model is tested and validated by significantly relating the factors affecting online shopping adoption.

Key Words: Online Shopping, Online Shopping Adoption, Online Shopping and Media.

Introduction

Online shopping in India is an emerging trend enabling marketers to promote their merchandise in a wider geographical area using the internet. This trend is likely to grow over the coming decade.India is the fifth country globally and the second in Asia in terms of ecommerce. Indians seem to have grasped the ability to shop merchandise through internet. Mobile internet is also responsible for opening up the online world to Indian consumers.

The average annual spending of Indians on online purchases is expected to rise 67 percent to Rs. 10,000 next year from the current Rs. 6,000 a year on average, said the Assocham-PwC study. About 40 million consumers purchased something online this year and the number is expected to grow to 65 million by the end of this year 2015 with better infrastructure in terms of logistics, broadband and Internetready devices. The Internet and World Wide Web have made it easier, simpler, cheaper and more accessible for businesses and consumers to interact and conduct commercial transactions electronically. This is practically the case when online shopping (i.e. Internet shopping) is compared to the traditional approach of visiting retail stores (McGaughey& Mason, 1998).

Alibaba and Tencent spent more than \$8 billion last year alone backing often strikingly similar ventures, as the Chinese Internet giants race to create online one-stop-shops to win the digital loyalty of a tenth of the world's population. Monsuwe, Dellaert, and Ruyter (2004) suggest five reasons that drive consumers to shop online. Firstly, consumers can use minimal time and effort to browse an entire product assortment by shopping online. Secondly, consumers can gain important information about companies, products and brands efficiently by using the Internet to help them make purchase decisions more accurately. Thirdly, when compared to traditional retail shopping, online shopping enables consumers to compare product features, price, and availability more efficiently and effectively. Fourthly, online shopping allows consumers to maintain their privacy when they buy sensitive products. Finally, online shopping can reduce consumers' shopping time, especially for those consumers whose times are perceived to be costly when they do brick-and-mortar shopping (Monsuwe et al., 2004).

E COMMERCE INDUSTRY IN INDIA

Recent years have seen a remarkable transformation in the way India shops and trades. E-commerce has taken the world of retail by storm and captivated the imagination of an entire generation of entrepreneurs, with e-commerce ventures with various business and commercial models. The explosive growth in the last few years has already catapulted the biggest among these ventures past the billion-dollar territory. The sector has grown three times in four years to nearly 12.6 billion USD in 2013. Various industry estimates project that the sector will further growth five to seven times over the next four to five years. Ecommerce industry, which started flourishing in India nearly ten years back with eBay acquiring Avnish Bajaj owned Baazee.com, an online auction portal, has come a long way indeed. It is, at present, one of the fastest growing sectors of the Indian digital economy. The e-Commerce industry in the India which grew by 33% last year and saw goods and services worth \$3.5 billion exchanging hands is poised for bigger growth and touch new highs. Gartner predicts a 70% growth rate for the sector and expects \$6 billion worth of business in 2015.

REVIEW OF LITERATURE

YEAR	AUTHOR	FINDINGS
1989	Davis et al.	Next to identifying the steps of the buying process and the potential
		role of marketing in each stage, marketers are eager to comprehend
		how purchasing choices and decisions are made, how consumers are
		likely to react to innovation and how to predict the outcome of the
		customer vendor interaction.
1999	Donthy and	Proposed that risk aversion, innovativeness, brand consciousness,
	Garcia	price consciousness, importance of convenience, variety-seeking
		propensity, impulsiveness, attitude toward adverting, attitude
		toward shopping, and attitude toward direct marketing would
		influence online shopping behavior.
2000	Bhatnagar,	Measured how demographics, vender/service/ product
	<u>Misca</u> and	characteristics, and website quality influence the consumers, their
	Rao	attitude towards online shopping and consequently their online
		buying behavior. They report that the convenience the Internet
		affords and the risk perceived by the consumers are related to the
		two dependent variables (attitudes and behavior) positively and
		negatively, respectively.

Table 1: Contribution of researchers

2000	Hoffmon and	Consumers who experience the flow state in a hypermedia CME
2000	Noval-	awhibit awheretery behaviors (a schemping behavior) there there
	Novak	exhibit exploratory behaviors (e.g., shopping behavior) than mose
	-	who do not.
2000	Rowley	Studied that the financial risks had been cited as a main reason to
		stop internet shopping and security had become a major concern
		both in online transaction relationships.
2001	Heijden.	Online purchase intention at the website is strongly determined by
	Verhagen.	attitude towards online shopping at the website. Also, trust-oriented
	and	models appear to be more appropriate to explain online purchase
	Creemers	intention than website-oriented models.
2001	Lee and	The findings indicate that merchant integrity is a major positive
	Turban	determinant of consumer trust in Internet shopping, and that its
		effect is moderated by the individual consumer's trust propensity.
2002	Sofres	Given the continuous expansion of the Internet in terms of user
		numbers, transaction volumes and business penetration this massive
		research endeavor is not surprising. More than 20 per cent of
		Internet users in several countries already buy products and services
		online while more than 50 per cent of US net users regularly buying
		online.
2002	Lee	Internet meltdown at the end of the 1990s and plenty of more recent
		anecdotal and empirical evidence indicate that many online firms
		still do not completely understand the needs and behavior of the
		online consumer while many of them "continue to struggle with
		how effectively to market and sell products online".
2002	Lee &	Intention will predict actual behavior is somewhat suspect based on
	Johnson	the large numbers of dropouts or those who note they are only
		browsing while online.
2003	Park and	Information affects information satisfaction and relational benefit
	Kim	that, in turn, are significantly related to each consumer's site
		commitment and actual purchase behavior.
2005	Lim and	Attitude toward online shopping is reinforced to the extent to which
	Dubinsky	consumers think their relevant others support their online purchase
		behavior.
2005	Chiu, Lin	Consumer attitudes play a significant role in facilitating their
	and Tang	purchase intentions. Also, the influences of perceived ease of
		purchasing on both attitudes and online purchase intentions are
		stronger for females than for males.
2006	Schlosser,	Effective investments signal the component of trusting beliefs that
	White, and	is most strongly related to online purchase intentions.
	Lloyd	
2009	Suki and	Conducted a study on 'Cellular Phone Users' Willingness to Shop
	Suki	Online'. The study suggested that marketers should propose more
		on attractive promotion such as advertisements or discounts through
		the web.
2011	Chowdbury	Conducted a study on 'factors affecting consumer participation in
	and Ahmad	online shopping in Malaysia'. The major focus of the study was to
		describe the relationship between independent variables and
		dependent variable using Pearson's correlation method.

OBJECTIVES OF STUDY

The Objectives of Study are as follows:-

- (1) To explore the factors influencing customers decisions to adopt online shopping instead of non online shopping.
- (2) To examine the effect of demographic factors on the adoption of online shopping.

HYPOTHESES OF STUDY

The following Hypotheses were formulated as follows:-

Here \mathbf{H}_0 represents Null Hypothesis and \mathbf{H}_A represents Alternative Hypothesis.

Hypothesis 1:-

- H_{01} : There is no significant relationship between well designed website contents and adoption of online shopping.
- **H**_{A1}: There is a significant relationship between well designed website contents and adoption of online shopping.

Hypothesis 2:-

- H_{02} : There is no significant relationship between security and adoption of online shopping.
- H_{A2} : There is a significant relationship between security and adoption of online shopping.

Hypothesis 3:-

- H_{03} : There is no significant relationship between service quality and adoption of online shopping.
- H_{A3} : There is a significant relationship between service quality and adoption of online shopping.

Hypothesis 4:-

- H_{04} : There is no significant relationship between cost to customer and adoption of online shopping.
- H_{A4} : There is a significant relationship between cost to customer and adoption of online shopping.

Hypothesis 5:-

- H_{05} : There is no significant relationship between product variety and adoption of online shopping.
- H_{AS} : There is a significant relationship between product variety and adoption of online shopping.

Hypothesis 6:-

- H_{66} : There is no significant relationship between customer resources and adoption of online shopping.
- H_{A6} : There is a significant relationship between customer resources and adoption of online shopping.

Hypothesis 7:-

- H_{07} : There is no significant relationship between product guarantee and adoption of online shopping.
- H_{A7} : There is a significant relationship between product guarantee and adoption of online shopping.

Hypothesis 8:-

- H_{08} : There is no significant relationship between convenience and adoption of online shopping.
- H_{A8} : There is a significant relationship between convenience and adoption of online shopping.

Hypothesis 9:-

- H_{00} : There is no significant relationship between demographic factors (Gender, Age, Marital Status, Education level, Occupation, and family income) and adoption of online shopping.
- **H**_{A9}: There is a significant relationship between demographic factors (Gender, Age, Marital Status, Education level, Occupation, and family income) and adoption of online shopping.

PROPOSED THEORETICAL RESEARCH MODEL



Fig 1: Proposed E-M Online Shopping Adoption Model

The model is designed on the names of the researchers who formulate it as 'E' stands for Esha Jain and 'M' stands for Manish Madan.

RESEARCH DESIGN

The research design is explorative in nature. In order to collate the responses, 7- point Likert's scale from strongly agree to strongly disagree is employed. Exploratory factor analysis was used to identify the factors that influence consumers' decisions to adopt online shopping, which in turn, satisfied the first research objective. The responses obtained from the respondents are analyzed using the Regression analysis. The test of significance is done with the help of t – test and ANOVA. This study is restricted to respondents shopping in Malls in Delhi and NCR. The importance of this study is that it focuses on investigating the impact of various factors on the behavior of customers to adopt online shopping.

SOURCES OF DATA

To cater the need of the research, the researchers have used primary data through self-constructed structured Questionnaire and as far as the secondary data is concerned that was obtained from web sites, journals etc. to explore the significance of various factors on the behavior of customers to adopt online shopping.

DATA COLLECTION TECHNIQUE

Primary data were collected from customers shopping in various malls of Delhi and NCR. There were 197

respondents from various places in Delhi and NCR, out of which 150 filled questionnaires were used for this study (rest 47 rejected due to non-response). Structured questionnaire was constructed to interview the respondents doing shopping in various malls of Delhi and NCR. The responses of the respondents are measured on Likert's seven point scale (ranging from strongly agree to strongly disagree).

SAMPLING TECHNIQUE

As far as the sampling technique is concerned, nonprobability convenience sampling is used to collect data.

STATISTICAL TOOLS USED

IBM SPSS 20 (Statistical Package for the Social Sciences), for data analysis and as far as hypothesis testing is concerned, the statistical tools used is regression analysis; for the reduction of factors, the factor analysis is done using Rotated component matrix; for the reliability, the Cronbach's Alpha was calculated; and sample adequacy was tested on KMO and Bartlett's Test.

DATAANALYSIS AND INTERPRETATION

Reliability Analysis

In order to check the reliability of the questionnaire, the Cronbach's Alpha test was applied (Refer Table 2). The value of Cronbach's alpha is found to be 0.864. As the value of Cronbach's Alpha is more than 0.6, which considers the data to be reliable for hypothesis testing.

Table 2	2:	Reliability	Statistics
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Reliability Statistics							
Cronbach's Alpha	No. of Items						
	Items						
0.864	0.853	31					

Validity Analysis

From Table 3, it is found that the value for Kaiser-Meyer-Olkin Measure of Sampling Adequacy was more than 0.6,

and it is 0.852 also Bartlett's Test of Sphericity has significant value less than 0.05 at 5 % level of significance. So factor analysis was conducted successfully for data reduction.

Table 3: KMO and Barlett's test of Sphericity

Kaiser-Meyer-Olkin Measure of Sampling Adequacy		0.852
Bartlett's Test of Sphericity	Approx. Chi-Square	6349.232
	Df	630
	Sig.	0.000

FACTORANALYSIS

The results of statistical assumption tests revealed that the data set was appropriate for factor analysis. Thus, principal

component factor analysis was conducted on all of the items that were identified from the literature review. Rotated Component Matrix is given in Table 4.

	1	2	3	4	5	6	7	8
My Contact Details	0.752							
and Information kept								
secret by Retailer								
Online Purchases are	0.782							
of low risk.								
My bank card detail	0.731							
and online payment								
detail are safe.								
It gives sense of	0.724							
confidence in me that								
my details are kept								
secret by retailer.								
In terms of security	0.629							
online shopping can								
be comparable with								
the traditional								
shopping.								
Regular and		0.841						
continuous access to								
internet								
Regular and		0.863						
continuous access to								
computer								
Skill level in using		0.725						
Internet								
Awareness about		0.671						
process of making								
online purchase								
The design of website			0.862					
of retailer is attractive								
Easy to access and			0.881					
complete transaction								
through retailer								
website								

Table 4: Factor Analysis by using Rotated Component Matrix

1	1	1	1	1	1		
Flexible links are			0.552				
available on the							
website of retailer to							
move back and forth							
Navigation of			0.620				
retailer's website is							
easy							
Website contain in-			0.719				
depth information to							
solve queries of							
customers							
Online purchases help				0.847			
to reduce							
transportation cost							
Online purchases help				0.519			
to buy similar							
products at cheaper							
prices							
Online purchases is				0.723			
better value for							
money							
Internet offers				0.838			
comparatively low							
prices than the							
traditional retailers							
Online Retailers					0.521		
encourages for							
feedback and							
suggestions							
Online Retailers					0.838		
understand the needs							
of the customers							
After sales services					0.619		
are easily provided by							
online retailers							
Internet retailers					0.730		
provide personalized							
customer service to							
the buyers							

Internet retailers		 	 0.730			
provide personalized			0.750			
customer service to						
the buyers						
Less time and efforts				0.581		
in making online						
purchases						
Online purchases				0.883		
saves time so that						
other activities can be						
done during that time						
Online purchases are				0.739		
more convenient than						
the traditional						
purchases						
The product received					0.553	
on delivery is similar						
in quantity and						
quality as per						
commitment of online						
retailer						
Product Guarantee is					0.771	
honored by online						
retailers						
Delivery time is as					0.842	
per promised time						
Wide Variety of						0.927
products are available						
on the internet						
I always purchase the						0.620
types of products I						
want from the						
Internet.						
I can buy the products						0.881
that are not available						
in retail shops						
through the Internet						

From the Table 4, the 31 variables are condensed to eight factors viz.

Factor 1: This factor explains the first component and is designated as "*Security*" (S).

Factor 2: This factor explains the second component and is designated as "*Customer accessibility*" (CA).

Factor 3: This factor explains the third component and is designated as "*Website Contents*" (WC).

Factor 4: This factor explains the fourth component and is

designated as "Cost to Customer"(CC).

Factor 5: This factor explains the Fifth component and is designated as "*Quality of Service*" (QS).

Factor 6: This factor explains the Sixth component and is designated as "*Customer Resources*" (CR).

Factor 7: This factor explains the Seventh component and is designated as "*Guarantee and Warranty*" (GW).

Factor 8: This factor explains the Eighth component and is designated as "*Product Variety*".(PV)

KARL PEARSON COEFFICIENT OF CORRELATION

		S	CA	WC	CC	QS	CR	GW	PV PV
Pearson	S								
Correlation		1	-0.583	0.831	-0.628	0.481	0.028	0.726	-0.318
Coefficient									
N		150	150	150	150	150	150	150	150
Sig. (2 – tailed)			0.293	0.021*	0.419	0.217	0.618	0.031*	0.529
Pearson	CA								
Correlation		-0.583	1	0.529	0.419	0.281	0.619	0.518	0.416
Coefficient									
N		150	150	150	150	150	150	150	150
Sig. (2 – tailed)	-	0.293		0.000*	0.033*	0.000*	0.000*	0.027*	0.032*
Pearson	WC								
Correlation		-0.583	0.529	1	0.539	0.618	0.738	0.428	0.315
Coefficient									
Ν		150	150	150	150	150	150	150	150
Sig. (2 – tailed)		0.293	0.000*		0.027*	0.000*	0.000*	0.0317*	0.0381*
Pearson	CC								
Correlation		-0.628	0.419	0.539	1	0.428	0.517	0.481	0.729
Coefficient									
Ν		150	150	150	150	150	150	150	150
Sig. (2 – tailed)		0.419	0.033*	0.027*		0.041*	0.032*	0.000*	0.000*
Pearson Correlation	QS	0.481	0.281	0.618	0.428	1	0.824	0.726	0.530

N		150	150	150	150	150	150	150	150
Sig. (2 – tailed)		0.217	0.000*	0.000*	0.041*		0.000*	0.031*	0.000*
Pearson Correlation Coefficient	CR	0.028	0.619	0.738	0.517	0.824	1	0.523	0.284
N		150	150	150	150	150	150	150	150
Sig. (2 – tailed)		0.618	0.000*	0.000*	0.032*	0.000*		0.027*	0.000*
Pearson	GW								
Correlation		0.726	0.518	0.428	0.481	0.726	0.523	1	0.848
Coefficient									
N		150	150	150	150	150	150	150	150
Sig. (2 – tailed)		0.031*	0.027*	0.0317*	0.000*	0.031*	0.027*		0.000*
Pearson	PV								
Correlation		-0.318	0.416	0.315	0.729	0.530	0.284	0.848	1
Coefficient									
N		150	150	150	150	150	150	150	150
Sig. (2 – tailed)		0.529	0.032*	0.0381*	0.000*	0.000*	0.000*	0.000*	

Table 5: Karl Pearson Coefficient of correlation

HYPOTHESES TESTING (Hypothesis No. 1 to No. 8)

In order to test the hypotheses 1 to 8, logistic regression analysis was used. Since the value of Chi square is 428.99621 and p value is 0.0001 having degree of freedom 19 so the model fitted the data very well. Since the value of pseudo R square is 0.8635 which means the model explains 86.35% variance in the choice of online shopping. The logistic regression results are given in Table 6. On the basis of the Table 5 of logistic regression analysis, the summary of hypothesis testing is given below:

Factors	B	S. E.	Sig.
Security	-3.4392	0.3824	0.000*
Customer Accessibility	0.72982	0.2403	0.014*
Website Contents	0.68917	0.2947	0.028*
Cost to Customer	5.62912	2.5032	3.295
Quality of Service	-1.3902	0.2893	0.000*
Customer Resources	1.6723	0.2408	0.000*
Guarantee and Warranty	4.7470	3.8838	2.390
Product Variety	0.3093	0.2401	0.023*

Table 6: Logistic Regression Analysis

SUMMARY OF HYPOTHESIS TESTING

Table 7: Summary of Hypotheses testing

HYPOTHESES	NULL HYPOTHESIS	ALTERNATIVE HYPOTHESIS
Hypothesis 1	REJECTED	ACCEPTED
Hypothesis 2	REJECTED	ACCEPTED
Hypothesis 3	REJECTED	ACCEPTED
Hypothesis 4	ACCEPTED	REJECTED
Hypothesis 5	REJECTED	ACCEPTED
Hypothesis 6	REJECTED	ACCEPTED
Hypothesis 7	ACCEPTED	REJECTED
Hypothesis 8	REJECTED	ACCEPTED

HYPOTHESIS TESTING (Hypothesis – 9) – Demographic Factors

Factors	Mean	Т	Sig.
Security	5.845	0.204	0.863
Customer Accessibility	5.923	0.339	0.359
Website Contents	4.991	-1.673	0.259
Cost to Customer	5.728	0.672	0.337
Quality of Service	5.589	0.002	0.481
Customer Resources	4.446	0.836	0.338
Guarantee and Warranty	5.518	0.921	0.401
Product Variety	5.047	0.834	0.550

Table 8: T – test: Online Shopping Adoption and Gender (Sample Size – 150)

ANOVA – F test: Online Shopping Adoption and Age (Sample Size – 150)

Table 9: F - Test				
Factors	Mean	F	Sig.	
Security	4.548	14.724	0.000*	
Customer Accessibility	5.552	3.782	0.023*	
Website Contents	5.578	4.226	0.047*	
Cost to Customer	4.441	3.901	0.000*	
Quality of Service	5.559	2.440	0.012*	
Customer Resources	5.824	3.891	0.000*	
Guarantee and Warranty	5.551	4.229	0.028*	
Product Variety	4.672	5.168	0.000*	

Table 10: F - Test				
Factors	Mean	F	Sig.	
Security	5.438	4.243	0.000*	
Customer Accessibility	4.523	5.722	0.392	
Website Contents	5.598	5.262	0.038*	
Cost to Customer	5.417	4.015	0.000*	
Quality of Service	4.559	3.407	0.931	
Customer Resources	4.824	4.816	0.450	
Guarantee and Warranty	4.551	5.296	0.031*	
Product Variety	5.623	4.188	0.000*	

ANOVA – F test: Online Shopping Adoption and Marital Status (Sample Size – 150)

ANOVA – F test: Online Shopping Adoption and Education Level

(Sample Size – 150)

Table	11:	F -	Test
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Factors	Mean	F	Sig.		
Security	5.835	15.243	0.000*		
Customer Accessibility	5.623	15.722	0.000*		
Website Contents	4.980	4.623	0.033*		
Cost to Customer	5.173	5.150	0.000*		
Quality of Service	5.554	4.076	0.037*		
Customer Resources	5.240	5.169	0.025*		
Guarantee and Warranty	4.341	4.299	0.000*		
Product Variety	5.236	5.883	0.000*		

On the basis of the Table 8, 9, 10 and 11 of ANOVA, the summary of hypothesis 9 testing is given below: (Here A is Accepted and R is Rejected

Factors	GEN	DER	A	GE	MAR	ITAL	EDUC	ATION
						TUS	LEV	VEL
	NULL	ALT.	NULL	ALT.	NULL	ALT.	NULL	ALT.
S	Α	R	R	Α	R	Α	R	Α
CA	Α	R	R	Α	Α	R	R	Α
WC	Α	R	R	Α	R	Α	R	Α
CC	Α	R	R	Α	R	Α	R	Α
SQ	Α	R	R	Α	Α	R	R	Α
CR	Α	R	R	Α	Α	R	R	Α
GW	Α	R	R	Α	R	Α	R	Α
PV	Α	R	R	Α	Α	R	R	Α

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CONCLUSION

This research offers insights into the linkage between eshopping and customers' decisions to shop or not shop online. This information can help online marketers and retailers develop appropriate market strategies, design and implement technological initiatives and take the right decisions to retain current customers and attract new customers. If online marketers and retailers can better understand their customers, they can improve their product and service offerings and strengthen their competitive advantage.

There is a positive correlation between factors considered for study and the adoption of online shopping. There is significant relationship between security, content of website and Guarantee of product. Customer Accessibility is significantly related to Website Content, Cost to Customer, Quality of Service, Customer Resources, Guarantee and Warrantee and Product Variety. Website content is related to all other factors. It is clear from correlation matrix that most of the factors are significantly related to other factors. There is significant relationship between Security, Customer Accessibility, Website Content, Quality of Service, Accessibility and Product Variety and Adoption of Online Shopping. While there is no significant relationship between Cost to Customer, Guarantee and Warrantee and the Adoption of Online Shopping. As far as the Gender is concerned there is no significant relationship between the Gender and adoption of online shopping while there is significant relationship between other demographic factors like Age, Marital Status and Education level and adoption of online shopping. An E-M Online Shopping Adoption Model is tested and validated by significantly relating the factors affecting online shopping adoption.

RESEARCH LIMITATIONS

The study focuses on general problems faced by online marketers compared to traditional marketers. There might be certain more variables as one person is satisfied on particular aspect but another may not on the same aspect.

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