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Impact of Neuro marketing on consumers purchase decision

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Abstract

Neuromarketing could be a reasonably modern teach that combines behavioural brain research, financial matters and customer neuroscience. The impact that certain reputation campaigns, brands and items have upon us, from a cognitive and passionate point of see, is being surveyed, by measuring the consideration, the encoding and the passionate engagement. This article has examined the writing with respect to the neuromarketing apparatuses, strategies and particular strategies. Neuromarketing is the embryonic field of marketing science. In spite of being questionable, it remains the foremost promising field to think about veritable consumers' reactions before the promoting jolts such as sound, brand and so forward. Hence, neuromarketing points to consider the important portion within the human named as 'brain' which is influenced by promoting encouragement. Primary data was collected from 200 samples from Ernakulam District. Descriptive statistics were used to describe and summarize the properties of the mass of data collected from the respondents. the methodology adopted in the research comprises of primary and secondary data and their systematic analysis. Cross tabulation, chai-square test and Kruskal Wallis Test are used for data analysis.

Keywords: Neuromarketing, Market Research, Consumer, Purchase Decision, demographical factor, emotional factor, psychological effect

Introduction

Neuromarketing is the consider of the cerebral component to get it the consumer's conduct in arrange to move forward the showcasing methodologies (Smidts, 2002) Neuromarketing is the application of discoveries from neuroscientific buyer investigate inside the scope of administrative Hone (Hubert & Kenning, 2008). Neuromarketing Suggest to a commercialized advertise investigate strategy for considering brain action that combines the strategies of neuroscience and behavioural brain research to create more prominent understanding approximately how customers react to items, brands, and advertisement impulse. These bits of knowledge are at that point utilized to illuminate the advancement of promoting techniques that are planned fundamentally to "nudge" specific statistic bunches or populace sections to require wasteful activity (Nemorin & Gandy Jr., 2017).

The term Neuromarketing was to begin with utilized in 2002 by a German Teacher Brew Smidts (Orzan et al., 2012). In any case, agreeing to Roebuck (2011) and Krajinovic et al. (2012), the discipline's originator is Teacher Gerry Zaltman from Harvard College who conducted a to begin with fMRI (useful attractive reverberation imaging) think about as a promoting device way back in 1999. Neuromarketing was really the primary term utilized to reference the integration of neuroscientific strategies and financial decision-making models in 2002 (Ramsoy, 2014). Neuromarketing risen as an extended field of inquire about on neuroeconomics (Pop et al., 2014). Neuromarketing is on the border between

neurosciences and economy and endeavours to clarify the choice making prepare by creating a neural demonstrate (Egidi et al., 2008).

The history of Neuromarketing begun in 1878, when Richard Canton found electrical signals in animals' brains. Among the primary methods utilized in present-day neuromarketing inquire about was electroencephalogram (EEG), presented by Hans Berger in 1924 (Gloor, 1969). Nearly half a century afterward magnetoencephalography showed up, found by David Cohen in 1968 (Cohen, 1968). Positron outflow geography (PET) at that point taken after, presented by Ter-Pogossian and his colleagues in 1975 (Ter-Pogossian, Phelps, Hoffman, & Mullani, 1975). The following decade seen the revelation of transcranial attractive incitement (TMS), made by Antony Barker's group (Barker, Jalinous, & Freeston, 1985). Useful attractive reverberation imaging (fMRI) taken after before long after, propelled by Ogawa and his colleagues in 1990 after the advancement of basic attractive reverberation imaging (Ogawa, Lee, Kay, & Tank, 1990). The ultimate major organize within the advancement of neuroimaging strategies was come to useful near-infrared spectroscopy (fNIRS), to begin with utilized in 1993 (Boas, Elwell, Ferrari, & Taga, 2014). The 1990s is at times alluded to as the brain decade, owing to a emotional increment within the utilize of EEG and other brain envisioning methods (Illes, 2003). In any case, it was Martin Lindstrom, an Oxford College teacher, who can be distinguished as the driving constrain of neuromarketing. Nowadays, neuromarketing shows up to start where conventional promoting enquire about of shopper conduct closes (Šola, 2013). It starts over again each time we go shopping 32 and choose which brands to purchase.

In later times, "Neuromarketing" has come to cruel the application of neuroimaging methods to showcase items and permitted us to more completely get it human conduct in an amazingly vital setting (Lee, Broderick, & Chamberlain, 2007). Understanding human behavior too requires information of the brain capacities. The brain can be separated in three parts: the unused brain, the center brain and the ancient brain. The body of investigate that illustrates the predominance of the ancient brain (Renvoise & Morin, 2007)? The knowledge about the brain and thus the intrigued within the point neuromarketing have expanded in later a long time. There are two fundamental reasons for this increment: To begin with, the plausibility that neuroimaging will gotten to be cheaper and quicker than other promoting research methods; and moment, the trust that neuroimaging will give marketers with data that's not realistic through routine

(Ariely & Berns, 2010) There's a part of prove why the moment reason is exceptionally vital. Ninetyfive per cent of the choices individuals make are made by the subliminal and as it were five per cent of the choices are conscious ones (van Arendonk & Polderman, 2013). Conventional marketing tools are attempting to get it the five per cent, but neuromarketing apparatuses are attempting to distinguish the other ninety-five per cent. Since of this tall rate neuromarketing has pulled in expanding consideration, but basic viewpoints of it stay underexplored, counting what precisely it is or incorporates, and how it is utilized in hone (Fisher, Chin, & Klitzman, 2010). Besides a few neuromarketing discoveries have been distributed, however there's a need of clarity concerning the utilize of neuromarketing apparatuses within the range of promoting research.

In later a long time, the application of neuroscientific procedures to the study of passionate and cognitive reactions of buyers has been developing, and is seen as one of the most on buyer conduct for

long term, and a awesome resource for companies to make strides their communication with customers (Murphy et al., 2008).

This field gets to be progressively curiously to both analysts and the showcase, because it gives more dependable data than that gotten through conventional showcasing strategies such as buyer conduct and the justification of choice making (Vlăsceanu, 2014a, 2014b).Be that as it may, Stanton et al. (2016) show that, with the development of the field, reactions and fears of neuromarketing's indicated control have developed, counting both prompt impacts on person customers and long-term impacts on society as a entirety, counting positive rights to protection, independence, and nobility as well as negative rights not to be misdirected, subjected to tests without assent, or utilized as a implies as it were In addition, Garcia and Saad (2008) state that the neuromarketing field of investigate does not have an overarching hypothetical system to direct its investigate motivation. Amore later talk given by Ulman et al. (2015) pronounces that encourage logical investigate is still required in arrange to set up a more grounded premise for the approval of the logical foundation of neuromarketing. In any case, Agarwal and Dutta (2015) accept that buyer neuroscience itself has been able to address all concerns of the pundits, promising to advance rise as a more thorough logically.

Concurring to Dinu et al. (2010), modern shopper behaviour ponder procedures ought to contribute to choice making through the utilize of data to encourage this handle in arrange to recognize the genuine reasons for the buy that ought to cause a major change within the companies, making these encourage centre their inquire about on customer behaviour. It implies that the improvement of the collaboration between neuroscience and showcasing analysts can offer assistance development information in a few key ranges, not as it were related to shopper choices, but too on how we interact, relate, and carry on within the show setting of markets and organizations, being principal to the victory of any showcase activity (Lee et al., 2007).

At display, neuromarketing gives data which cannot be recovered by implies of classical showcasing. The foremost self-evident advantage neuroimaging strategies give is related to the truth that these methods which gather quantitative information may too be utilized some time recently propelling a modern item, in this way expanding the chances of victory for that specific propelling. Classical promoting strategies, such as, centre bunches, inclination surveys, recreated choice strategies and showcase tests are strategies which gather qualitative, subjective information, which don't carry the same exactness degree with respect to the decision-making prepare as neuromarketing does (Ariely & Berns,2010).

The human brain has been a source of interest to enquires about for decades. It shapes portion of the apprehensive framework, the major controlling, administrative and communicating framework of the body (Zurawicki, 2010). It is the brain which plays a definitive part within the forming of our character, for it records our history, encounters, memory and feelings. Much appreciated to it, we are competent of making choices, not the slightest of which relate to shopping inclinations. The volume of the brain is 800-2,000 ml, which compares to a weight of 1.2-1.4 kg, and constitutes as it were about 2% of the overall weight of the human body. In any case, it consumes as much as 20% of the vitality provided to the full body. The brain may be isolated agreeing to clinical and geological factors. Agreeing to the land outline, it is isolated into the forebrain, the midbrain, and the hindbrain (Zurawicki, 2010). From the clinical point of view, it comprises of the cerebrum, the cerebellum and the brainstem. The two

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sides of the brain are joined at the foot by the corpus callosum. The surface of the cerebrum contains neurons and glia, together shaping the cerebral cortex and dark matter. More profound parts of the cerebrum are basically composed of white matter (Zurawicki, 2010). The cerebral cortex is dependable for the foremost requesting mental capacities, to be specific considering, arranging and issue tackling. From the neurological perspective, what applies a solid impact on buyer conduct is the profound and developmentally ancient brain structures: the thalamus, the hypothalamus, the amygdala and the hippocampus, which are too alluded to as the limbic framework. They are included in learning, organizing and preparing feelings and are mindful for memory The cerebellum is found beneath the cerebrum, at the back of the brain (Zurawicki, 2010). It controls muscle developments, pose and adjust. Also, it fine tunes engine action and development. It plays a significant part within the capacity to perform fast and dreary actions. The brainstem may be a brain expansion interfacing the cerebrum and the cerebellum to the spinal line (Zurawicki, 2010).

It comprises of the midbrain, the pons and medulla oblongata and controls a number of programmed capacities. In a few nations, human passing is considered to happen when the brainstem loses its capacities, which is known as brainstem passing. Memory is the capacity to record and review tactile impressions, affiliations and data. In other words, it can be depicted as the cognizant and deliberateness memory of truthful data, past encounters and ideas (Ullman, 2004). Concurring to the time basis, memory can be partitioned into long-term, short-term and ultra-short-term (tactile). Long-term memory (LTM) performs the work of changeless capacity. It is separated into explanatory and nondeclarative memory. Short-time memory (STM) includes transitory capacities and changes in neural connections. It moreover has the most brief term and the biggest capacity, as it can store roughly 99% of all approaching data. It is mindful for handling and sifting information gotten by the brain from approaching boosts. Time falls flat to create the sole model for the division of memory, for its sorts may too be separated agreeing to their capacities, the ways of putting away and preparing information, as well as the impact they have on the human life. For occasion, one can recognize explanatory and non-declarative (verifiable) memory, both of which shape portion of LTM. The last mentioned sort, procured and utilized unknowingly, is able to influence thought and conduct (Schacter, 1987). Explanatory memory can be advance subdivided into personal and semantic. Whereas the previous is related to one's claim past, the last mentioned is related with realities (objects and occasions) and the implications of words. Semantic memory comprises of broad and graphic information, uninfluenced by individual encounters (Zurawicki, 2010). Common laws, equations and language structure rules are to put away there.

Literature Review

Sebastain (2014),Modern headings in understanding the decision-making prepare: Neuroeconomics and neuromarketing" this consider appeared that Neuroeconomics and neuromarketing are unused developing intrigue areas at the interface between neuroscience, brain research, financial matters and showcasing. Generally touching, they are examining how we make choices, one in an immersive setting, the financial one and the other, customizing, is cantering on how shoppers make the choice to purchase. Inside this article were drawn closer two unused lines in understanding the choice making handle, to be specific neuroeconomics and neuromarketing. Both disciplines highlight the interface between the decision-making prepare and the brain locales included in its improvement. Utilizing neuroscience particular strategies, these two disciplines offer unused vision of the decision-making handle.

Shukla (2019), "Neuromarketing: A change in marketing tools and techniques"

This paper looks for to distinguish the different instruments and procedures utilized in customary inquire about and buyer neuroscience with its stars and cons. The reason of this article is firstly, to collate the routine and progressed neuromarketing inquire about approaches. And, highlight the merits and demerits of these approaches. Besides, to get it the rash responses of customers to different circumstances in connection with the Paul MacLean's triune brain model.

Kumar (2015), " Neuromarketing: The New Science Of Advertising"

This says that "Neuromarketing is a developing department of neuroscience in which analysts utilize therapeutic innovation to decide customer responses to specific brands, mottos, and notices. By watching brain action, analysts in lab-coats can anticipate whether you lean toward Pepsi or Coke more precisely than you'll. Faultfinders have as of now started to upbraid the thought for its rudeness; be that as it may, in spite of the fact that the field is as of now exceedingly disputable, there's no question that it's proceeding improvement will eventually have a significant affect on consumerism and the by and large consider of human behaviour."

Ariely and Berns (2010), "Neuromarketing: the hope and hype of neuroimaging in Business" expect that the brain filtering procedures can give signs with respect to the essential inclinations of an person, which are more precise than the information assembled by standard advertise investigate as these information are subject to partiality due to a subjective approach to values. On the off chance that usually genuine, the concepts and models of the products can be rapidly tried and the products which are not "promising" might be dispensed with. This would result in a more effective allotment of assets that may well be utilized as it were for "promising" products.

Neuromarketing may be a generally modern and questionable intrigue investigate field, a component of showcasing, by implies of which one can appropriately translate mental and neurological information vital to get it client behaviour (Constensen, 2011).

Neuromarketing is characterized as the getting of data valuable for marketers by subjecting people to utilitarian attractive reverberation imaging (fMRI) and other comparable strategies of examining programmed reactions within the brain to certain jolts, by and large including items and brands that are portion of consumer culture (Berger, 2011). Neuromarketing could be a portmanteau of "neuroscience" and "marketing". Neuromarketing procedure offers a diverse approach to wide accessibility of imaginative advances recognizing more nitty gritty investigation of neurological and psycho-physiological parameters (Stasi et al., 2018).

In spite of the different definitions of Neuromarketing accessible in writing in this article, we characterize neuromarketing is "the application of neuroscientific strategies to analyse and get it human behaviour in connection to markets and showcasing exchanges.

In spite of the fact that Madan (2010) contends that the action of promoting is simply commercial and centred on deals, we take the fundamental definition of Ariely and Berns (2010) as the premise, expressing that showcasing on the one hand bargains with the introduction of items centering on buyer

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needs, and on the other hand impacting the choice making handle of the client. When considering the improvement from promoting to neuromarketing, basically, the key issue which changed is the way in which data almost buyer needs and inclinations is obtained (Ariely, & Berns, 2010).

According to Koutsoyiannis (1979), these components are the cost of a item, customers' livelihoods and riches, the costs of other comparative commodities, the pay conveyances and the credit accessibility. Christensen, Jorgenson, & Lau (1975) state that the consumer's request could be a framework of request capacities; the amount expended of each product is considered to be a work of the full use and the costs of all commodities (Christensen, Jorgenson, & Lau, 1975). Be that as it may, the beginning point for these considers is the examination of buyer behaviour (Koutsoyiannis, 1979). Understanding the consumer's decision-making prepare points at the development of models, which depict the behaviour of people. These models expect that choice creators utilize a set of judicious criteria whereas making a choice, which is considered level headed (Tosi et al., 2002). In truth, the buyer is characterized as a homo oeconomicus (Process, 1848), whose fundamental characteristics are levelheadedness and an select care for his possess person interface (Mill,1848).

It has been watched by Morin in 2011 that neuromarketing has potential to examine 4P's of showcasing- item, cost, advancement and put- and can contribute broadly to marketer's understanding almost successfully promoting their items or administrations. An expanding number of promoting investigate papers, diaries, schools, organizations and conferences utilize neuroscientific information to superior understanding behind shopper buying decision-making and the ways by which that information can be utilized to create imaginative promoting hones. Neuromarketing has advertised parcels of openings for companies to always decide certain responses to showcasing jolts, the field is still at an developing stage.(Morin, 2011).

Objectives

- 1. To analyse the effect of demographical factors on consumers purchasing decision
- 2. To analyse the relation between demographical factors and emotional factors due to make purchasing decision

Research methodology

Research methodology refers that the method which used for this study. This study is descriptive in nature and makes use of a descriptive research design. Bothe primary and secondary data are used for this study. Primary data is collected through structured questionnaire. Secondary data were collected from website, books, journals etc. Primary data was collected from 200 samples from Ernakulam District. Descriptive statistics were used to describe and summarize the properties of the mass of data collected from the respondents. the methodology adopted in the research comprises of primary and secondary data and their systematic analysis. Cross tabulation, chai-square test and Kruskal Wallis Test are used for data analysis.

Data analysis and interpretation

Ho: The effect of demographical factors independent on consumers purchasing decision

H1: The effect of demographical factors dependent on consumers purchasing decision

Gender

-					Consumer Purchasing Decision				
				Situatio	Personal	Psychol	Social		
				nal	Factors	ogical	Factors		
				Factors		Factors			
		Count		8	32	60	4	104	
	Male	%	within	7.7%	30.8%	57.7%	3.8%	100.0%	
Gender		Gender	7.770		30.070	57.770	5.070	100.0%	
Gender		Count		8	44	24	20	96	
	Female	%	within	8.3%	45.8%	25.0%	20.8%	100.0%	
		Gender		0.3%	43.0%	23.0%	20.8%	100.0%	
		Count		16	76	84	24	200	
Total		%	within	8.0%	38.0%	42.0%	12.0%	100.0%	
		Gender		0.070	30.070	42.070	12.070	100.0%	

 Table 1 Gender and Consumer Purchasing Decision Cross tabulation

From the table one can observe that the female groups involving consumer purchasing decision more promptly than the male groups. In other words the consumer purchasing decision depends on the gender. To test this dependency holds in the population or not use the chi-square test. That is we use the chi-square test to test the hypothesis

H₀: Consumers purchasing decision is independent of Gender.

H1: Consumers purchasing decision is dependents on Gender.

The result of the chi-square test to test exhibited in the following table indicate that the test is significant as the p value is <0.05, so conclude that Consumer purchasing decision is dependent on Gender.

Table 2 Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	27.714 ^a	3	< 0.001
Significant			

Marital status

Table 3 Marital status and Consumer Purchasing Decision Cross tabulation

		Cor	nsumer Purch	nasing Dec	cision	Total			
		Situatio	Situatio Personal Psychol Social						
		nal	Factors	ogical	Factors				
		Factors		Factors					
Single	Count	8	28	44	24	104			

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Marital_stat		% within Marital_status	7.7%	26.9%	42.3%	23.1%	100.0%
		Count	8	48	40	0	96
us	Marrie d	% within Marital_status	8.3%	50.0%	41.7%	0.0%	100.0%
		Count	16	76	84	24	200
Tota	ıl	% within Marital_status	8.0%	38.0%	42.0%	12.0%	100.0%

From the table one can observe that the married groups involving consumer purchasing decision more promptly than the single groups. In other words the consumer purchasing decision depends on the Marital status. To test this dependency holds in the population or not use the chi-square test. That is we use the chi-square test to test the hypothesis

Ho: Consumer purchasing decision is independent of Marital status.

H1: Consumer purchasing decision is dependents on Marital status.

The result of the chi-square test to test exhibited in the following table indicate that the test is significant as the p value is <0.05, so we conclude that consumer purchasing decision is dependent on Marital status.

Table 4 Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	29.180	3	< 0.001
Significant			

Age:

Table 5 Age and Consumer purchasing decision Cross tabulation

			Consumer 1	Purchasing Decis	sion		Total
			Situationa	Personal	Psycholog	Social	
			1 Factors	Factors	ical	Factors	
					Factors		
	Upto 25	Count	8	40	24	0	72
	Opto 25	% within Age	11.1%	55.6%	33.3%	0.0%	100.0%
	26-35	Count	4	28	40	0	72
	20-33	% within Age	5.6%	38.9%	55.6%	0.0%	100.0%
1 33	36-45	Count	0	4	12	12	28
Age	30-43	% within Age	0.0%	14.3%	42.9%	42.9%	100.0%
	46-55	Count	0	4	8	4	16
	40-33	% within Age	0.0%	25.0%	50.0%	25.0%	100.0%
	Above 55	Count	4	0	0	8	12
Above 55	% within Age	33.3%	0.0%	0.0%	66.7%	100.0%	
Total		Count	16	76	84	24	200
Total		% within Age	8.0%	38.0%	42.0%	12.0%	100.0%

From the table one can observe that the younger age groups involving consumer purchasing decision more promptly than the elder groups. In other words the consumer purchasing decision depends on the age. To test this dependency holds in the population or not use the chi-square test. That is use the chi-square test to test the hypothesis

H₀: Consumer purchasing decision is independent of Age.

H1: Consumer purchasing decision is dependents on Age

The result of the chi-square test to test exhibited in the following table indicate that the test is significant as the p value is <0.05, so conclude that consumer purchasing decision is dependent on Age.

Table 6 Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	27.212	3	< 0.001
Significant			

Education:

Table 7 Education and Consumer Purchasing Decision Cross tabulation

				Consume	er Purchasing	g Decision	l	Total
				Situatio	Personal	Psychol	Social	
				nal	Factors	ogical	Factors	
		-		Factors		Factors		
		Count		0	0	0	4	4
	Illiterate	% Education	within 1	0.0%	0.0%	0.0%	100.0%	100.0%
	High school	Count		4	8	4	8	24
		% Education	within 1	16.7%	33.3%	16.7%	33.3%	100.0%
Educatio	Intermmediat e	Count		0	0	8	4	12
n		% Education	within n	0.0%	0.0%	66.7%	33.3%	100.0%
		Count		4	32	44	8	88
	Degree	% Education	within 1	4.5%	36.4%	50.0%	9.1%	100.0%
	Masters	Count		8	36	28	0	72
	degree	% Education	within 1	11.1%	50.0%	38.9%	0.0%	100.0%
		Count		16	76	84	24	200
Total		% Education	within 1	8.0%	38.0%	42.0%	12.0%	100.0%

From the table one can observe that the educated groups involving consumer purchasing decision more promptly than the illiterate groups. In other words the consumer purchasing decision depends on the Educational level. To test this dependency holds in the population or not use the chi-square test. That is we use the chi-square test to test the hypothesis

Ho: Consumer purchasing decision is independent of Educational level.

H1: Consumer purchasing decision is dependents on Educational level.

The result of the chi-square test to test exhibited in the following table indicate that the test is significant as the p value is <0.05, so conclude that Consumer purchasing decision is dependent on Educational level.

8 Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	31.706	4	< 0.001
Significant			

Occupation:

Table 9 Occupation and Consumer purchasing decision Cross tabulation

			Consumer	Purchasing De	cision		Total
			Situation	Personal	Psycholo	Social	
			al Factors	Factors	gical Factors	Factors	
	- A	Count	0	0	4	4	8
	Agriculturist	% within Occupation	0.0%	0.0%	50.0%	50.0%	100.0%
	Employee	Count	4	64	48	4	120
	Employee	% within Occupation	3.3%	53.3%	40.0%	3.3%	100.0%
Occupation	Business	Count	0	4	20	0	24
Occupation	Busiliess	% within Occupation	0.0%	16.7%	83.3%	0.0%	100.0%
	Professional	Count	8	8	12	0	28
	FIOIESSIOIIAI	% within Occupation	28.6%	28.6%	42.9%	0.0%	100.0%
	Others	Count	4	0	0	16	20
(Others	% within Occupation	20.0%	0.0%	0.0%	80.0%	100.0%
Total		Count	16	76	84	24	200
10101		% within Occupation	8.0%	38.0%	42.0%	12.0%	100.0%

From the table one can observe that the employees involving consumer purchasing decision more promptly than the agriculturist groups. In other words the consumer purchasing decision depends on the Occupation. To test this dependency holds in the population or not use the chi-square test. That is we use the chi-square test to test the hypothesis

Ho: Consumer purchasing decision is independent of Occupation.

H1: Consumer purchasing decision is dependents on Occupation.

The result of the chi-square test to test exhibited in the following table indicates that the test is significant as the p value is <0.05, so conclude that consumer purchasing decision is dependent on occupation.

Table 10 Chi-Square Tests

	Value		Asymp. Sig. (2-sided)
Pearson Chi-Square	17.772	3	< 0.001
Significant			

Income:

Table 11 Monthly income and Consumer purchasing decision Cross tabulation

			Consum	ner Purchasi	ng Decis	ion	Total
			Situati	Personal	Psycho	Social	
			onal	Factors	logical	Factors	
			Factor		Factor		
			S		S		
	-	Count	4	0	4	20	28
	Upto 10,000	% within Monthly_income	14.3%	0.0%	14.3%	71.4%	100.0 %
	10,000-	Count	4	20	28	0	52
	15,000-	% within Monthly_income	7.7%	38.5%	53.8%	0.0%	100.0 %
	15 001	Count	0	20	28	0	48
	15,001- 20,000	% within Monthly_income	0.0%	41.7%	58.3%	0.0%	100.0 %
Manth In in	20.001	Count	0	28	4	4	36
Monthly_in come	20,001- 25,000	% within Monthly_income	0.0%	77.8%	11.1%	11.1%	100.0 %
	25,001-	Count	4	4	8	0	16
	30,000	% within Monthly_income	25.0%	25.0%	50.0%	0.0%	100.0 %
	30,001 –	Count	0	0	12	0	12
	35,000 – 35,000	% within Monthly_income	0.0%	0.0%	100.0 %	0.0%	100.0 %
	25 001	Count	4	4	0	0	8
	35,001- 40,000	% within Monthly_income	50.0%	50.0%	0.0%	0.0%	100.0 %
		Count	16	76	84	24	200
Total		% within Monthly_income	8.0%	38.0%	42.0%	12.0%	100.0 %

From the table one can observe that the medium level income group involving consumer purchasing decision more promptly than the high and low income group. In other words the consumer purchasing decision depends on the Income level. To test this dependency holds in the population or not we use the chi-square test. That is we use the chi-square test to test the hypothesis

Ho: Consumer purchasing decision is independent of Income level.

H1: Consumer purchasing decision is dependents on Income level.

The result of the chi-square test to test exhibited in the following table indicate that the test is significant as the p value is <0.05, so we conclude that Consumer purchasing decision is dependent on Income level.

Table 12 Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	26.729	5	< 0.001
Significant			

Second objective is to analyses the relation between demographical factors and emotional factors due to make purchasing decision.

Factor 1: It was a grouping of attributes that are desirable by a marketer in customers purchase. The variables eagerness, Interest and attraction constitute a predetermined objective of the marketers and a consumer always tries to gain a positive experience from the purchase. The factor was therefore termed as "Positive".

Factor 2: The attributes like satisfaction, happiness, pride, relief and give a sense of pleasant feeling in consumers' mind and makes them feel contented. Therefore the factor was termed as "Contentment".

Factor 3: It was decided to name the grouping of emotional attributes like annoying, anger, worry and fear. These factors are responsible for dissatisfaction in consumers' out of a purchase and a marketer always try to avoid such associations. Therefore the factors were termed as "Unconstructive".

Factor 4: The factor enthusiasm, excitement and surprise correspond to the feeling in the mind of consumer about unexpected or something which is yet to happen in future. Therefore it was termed as "Exhilaration".

Table 13 Mean and Standard Deviation of Consumer purchase decision service

Emotional Factors	Mean	Std. Deviation
Positive	3.2723	1.10231
Contentment	3.2347	1.09601

Consumer Purchase Decision	64.9178	19.37385
Exhilaration	3.33	1.12055
Unconstructive	3.1502	1.15237

Source: Primary Data

According to above table, exhilaration have highest mean value among other emotional factors, which emotional factor affecting the consumer purchase decision. Positive and contentment factors have 3.2723 and 3.2347 mean values respectively. Lowest value belongs to unconstructive , which is 3.1502.

Table 14 Results of Kruskal Wallis Test

Dopondont Variable	Emotional Factors	Mean	Chi-	DF	P value
Dependent Variable	(Independent variable)	Rank	Square		
ConsumerPurchaseDecisionU	Positive	231.20	14.318	5	.014
	Contentment	244.78			
	Unconstructive	201.57			
	Exhilaration	226.61			

Source: Primary Data

H₀: There is no significant difference in the Consumer Purchase Decision and emotional factors.

H₁: There is significant difference in the Consumer Purchase Decision and emotional factors.

The above hypothesis is tested using non parametric alternative Kruskal Wallis H test. The result exhibited in the table no. 4.2.7 shows that the p value is 0.014 which is less than 0.05. But computed value of chi-square is 14.318. which is greater than significant value. So that we can reject the null hypothesis. There is significant difference in the Consumer Purchase Decision and emotional factors.

Findings

This study focusing to analyses the effect of neuromarketing on consumers purchase decision. For that purpose analyzed two objectives like the effect of demographical factors and emotional factors on consumer purchasing decision. In First objective considered the basic factors affecting the purchasing decision are situational, personal, psychological and social factors. This study found that all demographical factors like gender, marital status, age, educational qualification, occupation and income level are effecting the consumer's purchasing decision. On the basis of second objective , the study found that there is significant difference in the Consumer Purchase Decision and emotional factors.

Conclusion

Understanding human behaviour too requires information of the brain capacities. Utilizing neuroscience particular strategies, these two disciplines offer unused vision of the decision-making handle. This study reveals the effect of demographical factors on consumers purchasing decision. And exhibiting the relation between demographical factors and emotional factors due to make purchasing

decision. After the analysis of collected data, study could reveal the fact that demographical factors affecting the consumer's purchase decision. There is significant difference in the Consumer Purchase Decision and emotional factors.

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