

A STUDY ON CUSTOMER PERCEPTIONS REGARDING BRAND IMAGE OF CARS.

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Abstract: Brand and brand image plays a phenomenal role in automobile industry. Brand image is a powerful force that influences customer purchase decisions, customer loyalty and finally lead to the success of the car brand. A strong brand image delves into the realm of aspirations, emotions and cultural associations. It helps to connect customers on personal level. A strong brand image also fosters customer loyalty. Thus, brand image plays a very influential role in the automobile industry.

Keywords: automobile, brand, brand image, customer, loyalty, industry.

1 **Introduction** : A brand image is a complex mental phenomenon crafted by a consumer's emotional responses, symbolic interpretations, cognitive assessments, and overall attitude towards the brand. It is driven by a mix of feelings, symbols, and reasoning, a brand image is the multifaceted impression consumidores form in their minds about the brand. Beyond the functional aspects, a brand image arises from the emotional resonance, symbolic meaning, and cognitive evaluations consumers associate with the brand. Consumer choices for a specific brand hinge on how they perceive the image of the brand. a picture they sculpted in their mind of what the brand promises and its performance in delivering on them. The brand image is forged by both what the brand claims to be and how well it lives up to those claims.

Before purchasing their dream car, consumers weigh a brand's projected persona ie its brand image and how better its fulfilling its promises. In essence, the brand image acts as a bridge between a brand's aspirations and its reality.

1.1 Influence of brand image in automobile industry

The influence of brand image in the automobile industry is massive and multifaceted, impacting everything from initial purchase consideration to long-term loyalty. Here are some key ways brand image plays a role:

1. Standing Out in a Crowded Market: With countless brands entering in the market, a strong brand image helps differentiate one manufacturer from another. Manufacturers try to build brand image on attributes like performance, luxury, reliability, innovation, or environmental consciousness, attracting specific customer segments.

2. Shaping Perceptions: A positive brand image also helps in shaping the perceptions of the customers towards a brand. It influences how consumers perceive the car's value, quality, and even their own social identity through ownership.

3. Building Trust and Loyalty: A consistent and positive brand image helps to builds trust with consumers, and thus influencing the purchase decisions of the customers. This trust can lead to increased loyalty, with customers returning for subsequent purchases and even advocating for the brand to others.

4. Premium Price Justification: A strong brand image can justify premium pricing by convincing consumers they are not just buying a car, but also an experience, a lifestyle, or an emotional connection.

5. Navigating Challenges and Crises:

- A well-established brand image can act as a buffer during times of crisis or negative publicity.
- Consumers who have built trust and emotional connections with the brand are more likely to forgive missteps and remain loyal.

Thus, brand image is a powerful asset in the automobile industry, influencing consumer choices, driving sales, and shaping the future of the market.

1.2 Review of Literature This review provides a glimpse into the extensive literature on brand image in the automobile industry.

Balmer and Gregson (2014) The study focuses on the factors that influences customer loyalty, and also highlighting the impact of perceived product quality, design, and price on brand image in the automobile industry. The researchers observed that consumers who perceived their cars as having high quality were more likely to have a positive brand image and also exhibit greater brand loyalty. The good design of the car both in terms of aesthetics and functionality, significantly contributed to a positive brand image and stronger owner loyalty. The cars offering good value for their price enhanced brand image and loyalty. Thus the study emphasize that tangible product attributes like quality, design, and price play a fundamental role in shaping consumer perceptions and building a strong brand image in the automobile industry.

Joghee & Dube (2016) focused on the brand image and its influence on the customers purchasing decision. It is observed that the firm can improve its brand image by providing timely information regarding the product or services to the customers.

Bhattacharya and Sen (2014) explore on the various green marketing strategies that in the automobile industry. It is observed that the green marketing strategies like fuel efficiency, environmental initiatives, and sustainable practices can have a positive impact on brand image in the automotive sector.

Park et al.(2010) The study , investigates on the influence of brand image and customer satisfaction on brand loyalty in the Korean automobile market. The study found a positive relationship between all three variables ie brand image, customer satisfaction and brand loyalty. The study reveals that brand image which is also associated with quality of the product and

prestige, leads to higher customer satisfaction. Customer satisfaction fosters stronger brand loyal customers for the company.

1.3 Objective of the study

To analyse the preference of the buyers with regard to brand image of cars.

1.4 Research Methodology - The researcher has undertaken the following methodology in conformity with the objective of the study.

Type of Research – Descriptive research has been carried out for the study.

Area of the Study- The study is conducted in Kamrup Metro.

Sampling Design: Descriptive research method has been used to carry out the study. Research area is Kamrup (Metro) district of Assam. The population of the study is all persons of Kamrup(M) who has at least one four wheeler car of any one brand of Maruti Sujuki, Honda, Huyndai, TATA, and K.I.A. Two stage sampling method is used to collect primary data. In the first stage wards of Kamrup districs was selected randomly and in the second stage purposive sampling method has been used. In second stage respondent from selected wards was considered proportionately as the population size of each block is different from each other.

There are 61 wards in Kamrup(M) district of Assam. Out of these 61 wards 40% i.e. 24 wards are selected randomly.

Size of the Population- According to 2011 census total population of Kamrup Metro is 12,53,938.

Using Taro Yamane method for the finite Population to determine the Sample size:

$$n = \frac{N}{[1+N(e^2)]}$$

Where n, signifies the Sample size,

N, signifies the Population size,

e, signifies the marginal error. It could be 0.10, 0.05 or 0.01.

The Total number of Sample considering e=0.05 that will be required is 399.407947; rounded off to 400. Thus the sample size comprises of 400 cutomers selected randomly from the selected wards and who has at least one four wheeler car of any one brand of Maruti Sujuki, Honda, Huyndai, TATA, and K.I.A

Sources of Data- Data has been collected from both primary and secondary sources.Primary data is collected with the help of structured questionnaire which is designed for persons of Kamrup(M) who has at least one four wheeler car of any one brand of Maruti Sujuki, Honda, Huyndai, Tata, Mahindra, Ford, Renault, Toyota , K.I.A. Secondary data has been collected from books, journals, websites etc.

1.5 Data Analysis and Interpretation

1.6. Demographic representation

In the process of analyzing the respondents of the study a number of demographic variables are enquired in order to understand the various characteristics of the respondents. A total of 400 respondents has been considered for analyzing the objectives of the study.

Table-1.6.a Showing	Distribution	of Respondents	According to Gender
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Gender	Number Respondents	of	Percentage
Female	117		29.3 %
Male	283		70.8%
Total	400		100%

Source: Primary Data

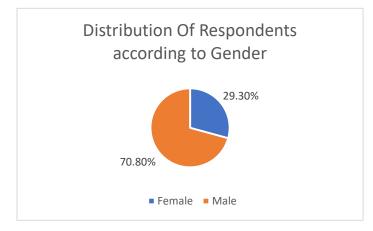


Figure 1.6.a Depicting Gender of the Respondents

Interpretation

It has been inferred from the above Table 1.6.a and from Figure 1.6.a that majority of the respondents i.e. 70.8% are male and 29.3% are female. It has been observed males are more interested in purchasing and owing a car as compared to females .

Age	Number Respondents	of	Percentage
21-30 years	31		7.8%
31-40 years	163		40.8%
41-50 years	178		44.5%
51 and above	28		7.0%
Total	400		100%

Table-1.5. b Showing Distribution of Respondents According to Age

Source: Primary Data

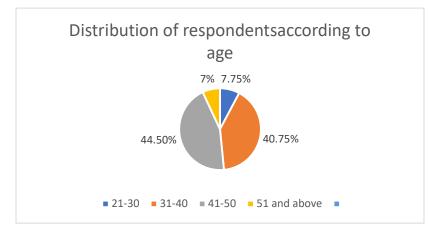


Figure 1.6.b Depicting Age of the Respondents

Interpretation

From the above Table1.6.b and Figure 1.6.b it can be seen that maximum numbers of respondents i.e. 44.5% falls in the age group of 41-50 years, 40.85% belongs to the age group of 31-40 years, 7.8% comprises of age group 21-30 years and 7.0% comprises of the age group of 51 and above years.

Table-1.6.c: Distribution of Respondents According to Education Qualification

Education Qualification	Number of Respondents	Percentage
Higher Secondary	1	.3%
Graduate	263	65.8%
Post-Graduate	128	32.0%
Others	8	2.0%
Total	400	100%

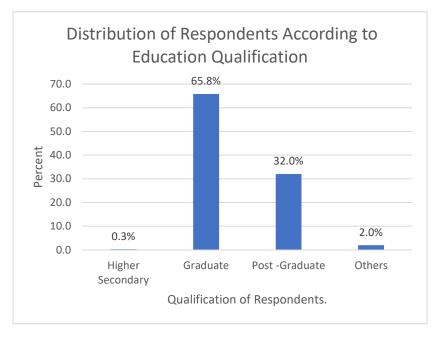


Figure 1.6.c Depicting Education Qualification of the Respondents.

Interpretation

From the above Table 1.6.c and Figure 1.6.c it has been inferred that majority of the respondents i.e. 65.8% are graduates, 32.0% are post-graduate holders ,2.0% comprises of other educational qualifications (diploma), and only a small portion i.e. 0.3% have done only higher secondary.

Occupation	NumberofRespondents	Percentage
Govt. service	165	41.3%
Private Job	118	29.50%
Professional practice	9	2.3%
Business	82	20.5%
Others	26	6.5%
Total	400	100%

Table-1.6.d: Distribution of Respondents According to Occupation

Source : Primary Data

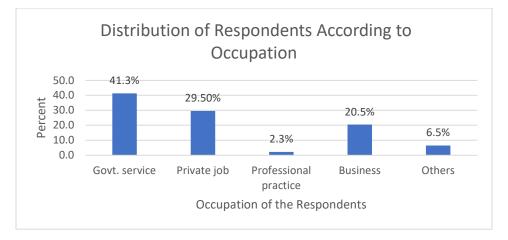


Figure 1.6.d Depicting Occupation of the Respondents.

Interpretation

From the above Table 1.6.d and Figure 1.6.d it has been inferred that majority of the respondents i.e. 41.3% are in Government Servic, 29.50% are in private jobs ,20.5% are involved in business activities,6.5% are involved in other activities (homemaker,part time jobs) and only a small portion i.e. 2.3% are involved in professional practices.

Table-1.6.e: Distribution of Respondents According to Number of Family Members

Number of Family Members	Number	of	Percentage
	Respondents		

3 to 5	284	71.0
5 & above	59	14.8
Below 3	57	14.3

Source : Primary Data

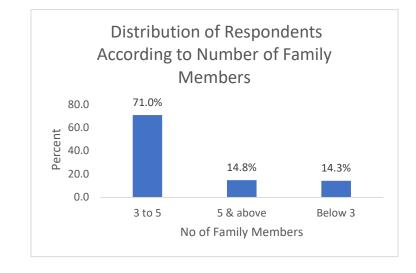


Figure 1.6.e- showing family members of the respondents.

Interpretation

From the above Table 1.6.e and Figure 1.6.e it can be interpreted that majority of the respondents i.e. 71.0% have three to five members in their family,14.8% respondents have more than five members in their family and 14.3% respondents have less than three members in their family. It is inferred from the analysis that Kamrup Metro comprises of more nuclear families as compared to large or joint families and also very small families.

Objective of the study

To analyse the preference of the buyers with regard to brand image of cars.

In order to understand the preference of buyers with regard to brand image of cars, the following tests were conducted to analyze the relationship of brand image with different demographic factors. In addition too, tests were also conducted to analyze the relationship of brand image along with the preferred attributes for a brand by the respondents. For this purpose, brand image has been measured using five statements which were measured using 5-point Likert scale. The results are highlighted in the following sections.

In addition, it was also attempted to find out whether there is association between preferred attributes of the brand with the demographic profile of the respondents. Pearson Chi -Square test was also conducted in order to find out the association between them.

2.1 Brand Image and Gender.

It was attempted to find out whether brand image differed across gender, i.e., male or female. Independent samples t-test is regarded as the most appropriate for comparing means of two groups. Thus, the independent samples t -test was used to test the relations. The hypothesis framed was as follows:

 $H_0 =$ Brand image does not differ significantly across gender.

 $H_{1=}$ Brand image differs significantly across gender.

Indep	Independent Samples Test									
		Leven Test	ie's for ity of	t-test for Equality of Means						
		F	Sig.	Т	Df	Sig. (2- tailed)	Mean Differenc e	Std. Error Differenc e	95% Confider Interval Differen Lower	of the
Brand Imag	Equal variance s assumed	2.10 6	0.14 7	- 1.29 5	398	0.196	06299	.04863	- 0.1586 0	.0326 1
e	Equal variance s not assumed			- 1.32 5	227.86 6	0.186	06299	.04753	- 0.15664	.0306 5

Table -2.1.a: Independent samples t-test (Brand image and gender)

From the above Table 2.1.a, it is found that the t-test value is not significant i.e., p value greater than 0.05. Thus, we cannot reject null hypothesis. Hence it can be concluded that brand image doesn't differ significantly across gender.

However, from Table 2.1.b, it can be observed that brand image is slightly higher for male (mean=3.48) as compared to females (mean=3.42). Thus, it can be observed that male customers tend to be more concern towards brand image of their car as compared to female customers.

2.2 Brand Image and Age

It was attempted to find out whether brand image mean differed across age groups, vis., "20-30 years", "30-40 years", "40-50 years", and "50 years and above". One way ANOVA is generally considered as one of the most appropriate test for comparison of means of three or more groups. Thus, ANOVA was conducted to test the relationship. The hypothesis framed was as follows:

H₀= Brand image does not differ significantly across age groups.

 H_1 = Brand image differ significantly across age groups.

The results from (Table 2.2.a) shows that null hypothesis may be rejected. Hence we conclude that significant difference exists in brand image across different age groups.

Further, in order to identify which groups significantly differed among each other in terms of their brand image, post hoc test i.e., Games-Howell test was conducted (Table 2.2.b). The results indicate that the brand image of the respondents who belong to the age group of "50 years and above" significantly differed from the groups of the respondents who belong to the age group of "20-30 years" and "40-50 years".

It is also observed from Table 2.2. c, that brand image is higher among the respondents who belongs to the age group of "50 years and above" (mean= 3.6), followed by the respondents of the age group of "30-40 years" (mean=3.5). Thus, it is observed that at an older stage the customers are more conscious regarding brand image as compared to the customers at their younger stage.

Table- 2.2. a:	ANOVA	(Brand	image and age)	
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	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	2.489	3	.830	4.336	.005
Within Groups Total	75.754 78.243	396 399	.191		

Table -2.2. b: Post hoc test (Brand image and a	ige)
Games-Howell	

(I) Distribution of	(J) Distribution of	Mean	Std.	Sig.	95% Confidence Interva	
Respondents	Respondents	Difference (I-	Error		Lower	Upper
According to Age	According to Age	J)			Bound	Bound
20-30 years	30-40	17649	.07549	0.105	3781	.0251
	40-50	09569	.07713	0.605	3010	.1096
	50 and above	35668*	.10778	0.009	6424	0709
20.40	20-30	.17649	.07549	0.105	0251	.3781
30-40 years	40-50	.08080	.04757	0.326	0420	.2036

	50 and above	18019	.08905	0.199	4203	.0599
40-50 years	20-30	.09569	.07713	0.605	1096	.3010
	30-40	08080	.04757	0.326	2036	.0420
	50 and above	26100*	.09044	0.031	5041	0179
50 years and above	20-30	.35668*	.10778	0.009	.0709	.6424
	30-40	.18019	.08905	0.199	0599	.4203
	40-50	.26100*	.09044	0.031	.0179	.5041

Table -2.2. c: Brand image and age

Age	N	Mean	Std. Deviation	Std. Error	95% Confide for Mean	ence Interval	Minimum	Maximum
					Lower Bound	Upper Bound		
20-30 years	31	3.3290	.38140	.06850	3.1891	3.4689	2.80	4.20
30-40 years	163	3.5055	.40510	.03173	3.4429	3.5682	1.80	4.40
40-50 years	178	3.4247	.47283	.03544	3.3548	3.4947	1.20	5.00
50 years and	28	3.6857	.44030	.08321	3.5150	3.8564	2.60	4.40
above								
Total	400	3.4685	.44283	.02214	3.4250	3.5120	1.20	5.00

2.3 Brand image and qualification.

It was attempted to find out whether brand image mean differed across the educational qualification of the respondents, vis, "higher secondary", "graduate", "post-graduate" and "others". The ANOVA test was conducted to test the relationship. The hypothesis framed was as follows:

 H_0 = Brand image does not differ significantly among the respondents based on their educational qualification.

 H_1 = Brand image differ significantly among the respondents based on their educational qualification.

The ANOVA result (Table 2.3.a) showed that null hypothesis may be rejected. Therefore it can be inferred that there is significant difference in brand image across different educational qualification of the respondents. Yet, from the mean scores (Table 2.3.b) it is observed that the respondents those who are "graduates" (mean = 3.5), and "post graduates" (mean=3.4) are more concerned regarding the image of the brand followed by the respondents who have "other qualifications" (mean=3.2).

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	1.617	3	.539	2.785	.041
Within Groups Total	76.626 78.243	396 399	.194		

Table -2.3.a: ANOVA (Brand image and educational qualification)

Table- 2.3.b: Brand image and educational qualification

Educational	Ν	Mean	Std.	Std.	95%	Confidence	Minimum	Maximum
Qualification.			Deviation	Error	Interval for Mean			
					Lower	Upper		
					Bound	Bound		
Higher	1	2.8000					2.80	2.80
Secondary								
Graduate	263	3.5057	.44577	.02749	3.4516	3.5598	2.40	5.00
Post-graduate	128	3.4109	.43421	.03838	3.3350	3.4869	1.20	4.20
Others	8	3.2500	.29761	.10522	3.0012	3.4988	2.80	3.80
Total	400	3.4685	.44283	.02214	3.4250	3.5120	1.20	5.00

2.4 Brand image and occupation

It was attempted to find out whether brand image mean differed among the various occupation of the respondents, i.e., "Govt Service", "Private Job", "Professional Practice," "Business", and "Others". One way ANOVA is generally considered as one of the most appropriate test for comparison of means of three or more groups. Thus, ANOVA was conducted to test the relationship. The hypothesis framed was as follows:

 H_0 = Brand image does not differ significantly among the respondents based on their occupation.

 H_1 = Brand image differ significantly among the respondents based on their occupation.

The ANOVA result (Table 2.4.a) showed that null hypothesis may be accepted. Hence it is concluded that there is no significant difference in brand image across the occupation of the respondents. However from the (Table 2.4.b) it is observed from the mean scores, that the respondents who are involved in business activities (mean=3.52) are more concerned about brand image , followed by the individuals involved in professional practice,(mean=3.46),the

respondents involved in government jobs (mean= 3.45) as well in private jobs (mean=3.45) also seems to be concerned about brand image, however the respondents involved in other activities (mean=3.43) seems to be less concerned regarding brand image.

	Sum of Squares	Df	Mean Square	F	Sig.
Between	.315	4	.079	.399	.809
Groups					
Within Groups	77.928	395	.197		
Total	78.243	399			

Table 2.4.a: ANOVA (Brand image and occupation)

Table 2.4.b: Brand image and occupation

Occupation	Ν	Mean	Std. Deviation	Std. Error		Confidence for Mean	Minimum	Maximum
					Lower Bound	Upper Bound		
Govt. service	165	3.4594	.50327	.03918	3.3820	3.5368	1.20	4.40
Private job	118	3.4525	.36367	.03348	3.3862	3.5188	2.80	4.20
Professional	9	3.4667	.42426	.14142	3.1405	3.7928	2.80	4.00
practice								
Business	82	3.5220	.45298	.05002	3.4224	3.6215	2.40	5.00
Others	26	3.4308	.33796	.06628	3.2943	3.5673	2.80	4.20
Total	400	3.4685	.44283	.02214	3.4250	3.5120	1.20	5.00

2.5 Brand Image and income

It was attempted to find out whether brand image mean differed among the income levels of the respondents, vis, "Rs15000- Rs 40000", "Rs 40000- Rs 80000", "Rs 80000& above." One way ANOVA is generally considered as one of the most appropriate test for comparison of means of three or more groups. Thus, ANOVA was conducted to test the relationship. The hypothesis framed was as follows:

 H_0 = Brand image does not differ significantly among the respondents based on their income levels.

 H_1 = Brand image differ significantly among the respondents based on their income levels.

The ANOVA result (Table-2.5. a) showed that null hypothesis may be accepted ,i.e. there is no significant difference in brand image across different levels of income of the respondents. However from the table (Table 2.5.b) it can be inferred from the mean scores that the respondents having income level of "Rs 80,000 & above",(mean=3.48) are more concerned regarding brand image, as compared with the respondents with income level of "Rs 15000-Rs40,000",(mean=3.47) and among the respondents with income level of "Rs40000-80000", (mean=3.45).Thus it can be concluded that the customers having high level of income are more concerned regarding the image of the brand.

Table 2.5.a: ANOVA (Brand image and income)

	Sum of	Df	Mean	F	Sig.
	Squares		Square		
Between	.061	2	.031	.156	.856
Groups					
Within Groups	78.182	397	.197		
Total	78.243	399			

Table 2.5. b: Brand image and income

Income	Ν	Mean	Std.	Std.	95% C	onfidence	Minimum	Maximum
			Deviation	Error	Interval	for Mean		
					Lower	Upper		
					Bound	Bound		
Rs 15000 - Rs	109	3.4734	.36480	.03494	3.4041	3.5427	2.80	4.20
40000								
Rs 40000 - Rs	177	3.4554	.49347	.03709	3.3822	3.5286	1.20	5.00
80000								
Rs 80000 & above	114	3.4842	.43060	.04033	3.4043	3.5641	2.20	4.40
Total	400	3.4685	.44283	.02214	3.4250	3.5120	1.20	5.00

2.6 Brand Image and brand owned

It was attempted to find out whether brand image mean differed among the various brands of cars owned by the respondents, i.e.," Maruti Suzuki", "Hyundai", "Honda", "Tata",

"Ford", "Toyota", "Mahindra", "Renault" & "Kia". One way ANOVA is generally considered as one of the most appropriate test for comparison of means of three or more groups. Thus, ANOVA was conducted to test the relationship. The hypothesis framed was as follows: H_0 = Brand image does not differ significantly among the respondents based on the brands of car owned.

 H_1 = Brand image differ significantly among the respondents based on the brands of car owned.

The ANOVA results showed (Table 2.6.a) that the null hypothesis may be rejected. Hence it is concluded that there is significant difference in brand image across different brands of cars owned by respondents. Further, in order to identify which brands significantly differed among other brands in terms of their brand image, post hoc test, Games-Howell test was conducted (Table-2.6.b). The results indicate that significant difference in brand image could be observed for the brand "Honda" with four brands i.e., Maruti Suzuki, Hyundai, Tata, and Toyota, significant difference in brand image could also be observed for the brand "Mahindra" with four brands i.e., "Maruti Suzuki", "Hyundai", "Tata", and "Toyota". However, from the table (Table- 2.6.c) it can be observed from the mean scores that the brand image is more good for the brand Tata (mean =3.67) as well Toyota (mean=3.60), followed by Maruti Suzuki (mean=3.52) and Hyundai (mean=3.51). The brand Kia which is new in the market also seems to have a good brand image, (mean=3.4).

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	7.594	8	.949	5.254	.000
Within Groups Total	70.649 78.243	391 399	.181		

 Table 2.6.a: ANOVA (Brand image and brand owned)

Table 2.6.b: Brand image and brand owned

Games-Howell

(I) Brand of ca	ar (J) Brand of car	Mean	Std.	Sig.	95%	Confidence
owned b	owned by	Difference	Error		Interval	
Respondents	Respondents	(I-J)			Lower	Upper
					Bound	Bound
Maruti Suzuki	Hyundai	.01593	.06064	1.000	1742	.2061

	Honda	.32408*	.07750	.002	.0787	.5695
	Tata	14533	.07572	.603	3879	.0972
	Ford	.13776	.07681	.686	1065	.3820
	Toyota	07771	.09281	.995	3765	.2211
	Mahindra	.30300*	.08457	.028	.0210	.5850
	Renault	.29467	.14823	.593	3611	.9505
	Kia	.04800	.21117	1.000	-1.0280	1.1240
	Maruti Suzuki	01593	.06064	1.000	2061	.1742
	Honda	.30815*	.07276	.002	.0769	.5394
	Tata	16126	.07086	.374	3899	.0674
TT 1- '	Ford	.12183	.07203	.750	1083	.3520
Hyundai	Toyota	09365	.08889	.978	3816	.1943
	Mahindra	.28707*	.08026	.033	.0153	.5588
	Renault	.27874	.14581	.632	3821	.9396
	Kia	.03207	.20948	1.000	-1.0529	1.1171
	Maruti Suzuki	32408*	.07750	.002	5695	0787
	Hyundai	30815*	.07276	.002	5394	0769
	Tata	46941*	.08573	.000	7433	1955
TT 1	Ford	18632	.08670	.448	4620	.0893
Honda	Toyota	40179*	.10115	.005	7256	0780
	Mahindra	02108	.09365	1.000	3280	.2859
	Renault	02941	.15359	1.000	6783	.6194
	Kia	27608	.21497	.900	-1.3345	.7823
	Maruti Suzuki	.14533	.07572	.603	0972	.3879
	Hyundai	.16126	.07086	.374	0674	.3899
	Honda	.46941*	.08573	.000	.1955	.7433
Tata	Ford	.28309*	.08511	.036	.0104	.5558
Tata	Toyota	.06762	.09979	.999	2534	.3886
	Mahindra	.44833*	.09218	.001	.1438	.7529
	Renault	.44000	.15270	.238	2102	1.0902
	Kia	.19333	.21433	.982	8680	1.2547
	Maruti Suzuki	13776	.07681	.686	3820	.1065
	Hyundai	12183	.07203	.750	3520	.1083
	Honda	.18632	.08670	.448	0893	.4620
Ford	Tata	28309*	.08511	.036	5558	0104
1.010	Toyota	21547	.10062	.455	5382	.1072
	Mahindra	.16524	.09308	.697	1407	.4712
	Renault	.15691	.15324	.970	4924	.8062
	Kia	08976	.21472	1.000	-1.1493	.9698

	Maruti Suzuki	.07771	.09281	.995	2211	.3765
	Hyundai	.09365	.08889	.978	1943	.3816
	Honda	.40179*	.10115	.005	.0780	.7256
Tavata	Tata	06762	.09979	.999	3886	.2534
Toyota	Ford	.21547	.10062	.455	1072	.5382
	Mahindra	.38071*	.10667	.022	.0334	.7280
	Renault	.37238	.16185	.427	2745	1.0192
	Kia	.12571	.22095	.999	9116	1.1630
	Maruti Suzuki	30300*	.08457	.028	5850	0210
	Hyundai	28707*	.08026	.033	5588	0153
	Honda	.02108	.09365	1.000	2859	.3280
Mahindra	Tata	44833*	.09218	.001	7529	1438
Maimura	Ford	16524	.09308	.697	4712	.1407
	Toyota	38071*	.10667	.022	7280	0334
	Renault	00833	.15728	1.000	6575	.6409
	Kia	25500	.21762	.933	-1.3042	.7942
	Maruti Suzuki	29467	.14823	.593	9505	.3611
	Hyundai	27874	.14581	.632	9396	.3821
	Honda	.02941	.15359	1.000	6194	.6783
Renault	Tata	44000	.15270	.238	-1.0902	.2102
Kellault	Ford	15691	.15324	.970	8062	.4924
	Toyota	37238	.16185	.427	-1.0192	.2745
	Mahindra	.00833	.15728	1.000	6409	.6575
	Kia	24667	.24935	.976	-1.2895	.7961
	Maruti Suzuki	04800	.21117	1.000	-1.1240	1.0280
	Hyundai	03207	.20948	1.000	-1.1171	1.0529
	Honda	.27608	.21497	.900	7823	1.3345
Kia	Tata	19333	.21433	.982	-1.2547	.8680
IXIA	Ford	.08976	.21472	1.000	9698	1.1493
	Toyota	12571	.22095	.999	-1.1630	.9116
	Mahindra	.25500	.21762	.933	7942	1.3042
	Renault	.24667	.24935	.976	7961	1.2895

*.

Table 2.6. c: Brand image and brand owned

Brand	Ν	Mean	Std.	Std.	95%	Confidence	Minimum	Maximum
			Deviation	Error	Interval for	Mean		
					Lower	Upper		
					Bound	Bound		

Maruti	100	3.5280	.46841	.04684	3.4351	3.6209	1.20	4.40
Suzuki								
Hyundai	116	3.5121	.41476	.03851	3.4358	3.5883	2.40	5.00
Honda	51	3.2039	.44089	.06174	3.0799	3.3279	2.20	4.20
Tata	30	3.6733	.32582	.05949	3.5517	3.7950	3.00	4.20
Ford	41	3.3902	.38975	.06087	3.2672	3.5133	2.80	4.20
Toyota	35	3.6057	.47400	.08012	3.4429	3.7685	2.80	4.40
Mahindra	16	3.2250	.28166	.07042	3.0749	3.3751	2.60	3.60
Renault	6	3.2333	.34448	.14063	2.8718	3.5948	2.80	3.60
Kia	5	3.4800	.46043	.20591	2.9083	4.0517	2.80	4.00
Total	400	3.4685	.44283	.02214	3.4250	3.5120	1.20	5.00

2.7 Brand Image and Preferred attributes

It was attempted to find out whether brand image differed among the preferred attributes of the brand i.e., "technology and quality", "price and better mileage", "comfort and size of the car", and "good facilities and good design". One-way ANOVA was conducted to test the relationship. The hypothesis framed was as follows:

 H_0 = . Brand image does not differ significantly among the respondents based on the preferred attributes of the brand.

 H_1 = Brand image differ significantly among the respondents based on the preferred attributes of the brand.

The ANOVA results showed (table 2.7.a) that the null hypothesis may be rejected, i.e. there is significant difference in brand image across the preferred attributes of the brand by the respondents. Furthermore, to identify the groups where significant differences exist, post-hoc tests were conducted. The Games Howell test revealed that significant differences in brand image exist between those who preferred "price and better mileage" and "technology and quality", and those who preferred "good facilities and good design". However from the (Table- 2.7.c) it can be observed from the mean scores that among the respondents who preferred "price and better mileage" stated slightly higher brand image (mean=3.62) compared to those who preferred "comfort and size of the car" (mean=3.47), "advance technology and quality" (mean=3.42). It is also observed that the respondents who preferred "good facilities and good design" however brand image of their car.

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	4.888	3	1.629	8.796	.000
Within Groups	73.355	396	.185		
Total	78.243	399			

Table 2.7.a: ANOVA (Brand image and preferred attributes of brand)

Table 2.7. b: Brand image and preferred attributes of the brandGames Howell

(I): Preference of	(J) Preference of	Mean	Std.	Sig.	95%	Confidence
the respondents for	the respondents for	Difference	Error		Interval	
the particular brand.	the particular brand.	(I-J)			Lower	Upper
					Bound	Bound
	Price and Better Mileage	19398*	.07353	.047	3862	0017
Technology and	Comfort and Size of	04920	.09385	.953	2947	.1963
Quality	the car					
	Good facilities and Good Design	.06179	.07083	.819	1238	.2474
	Technology, and Quality	.19398*	.07353	.047	.0017	.3862
Price and Better Mileage	Comfort and Size of the car	.14477	.07857	.262	0620	.3516
	Good facilities and Good Design	.25577*	.04880	.000	.1296	.3819
	Technology and Quality	.04920	.09385	.953	1963	.2947
Comfort and Size	Price and Better Mileage	14477	.07857	.262	3516	.0620
of the car	Good facilities and Good Design	.11099	.07604	.468	0898	.3118
	Technology and Quality	06179	.07083	.819	2474	.1238
Good facilities and Good Design	Price and Better Mileage	25577*	.04880	.000	3819	1296
_	-	11099	.07604	.468	3118	.0898

Preferred	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
Attributes	Ĩ				Lower Bound	Upper Bound	Willingth	Waximum
Technology and Quality	57	3.4281	.47875	.06341	3.3010	3.5551	1.20	4.20
Price and Better Mileage	127	3.6220	.41954	.03723	3.5484	3.6957	2.40	5.00
Comfort and Size of the car	44	3.4773	.45895	.06919	3.3377	3.6168	2.60	4.40
Good facilities and Good Design	172	3.3663	.41383	.03155	3.3040	3.4286	1.80	4.40
Total	400	3.4685	.44283	.02214	3.4250	3.5120	1.20	5.00

Table 2.7. c: Brand image and preferred attributes of the brand.

3 Findings : Based on the analysis and interpretation of the data, the findings from demographic profile of the respondents as well as objective wise findings of the study can be drawn as follows:

3.1.a Findings based on demographic profile of the respondents

- It is found that majority of the respondents owing a car are male. Gender wise male are more in owing a car while female are less in owing a car in Kamrup Metro.
- It is revealed that maximum number of respondents who owned a car in Kamrup Metro falls in the age group of 41-50 years and only a small portion of respondents falls in the age group of 51 and above years. Therefore it can be said that the middle age group which is also the working stage group purchases and owned a car more as compared to the old age group.
- Majority of the respondents have college level education as their basic qualification. Therefore it can be said that buyers are mostly educated and literate.
- It is found that majority of the respondents who are owing a car are job holders and most of them are in Government service. Therefore it can be said that majority of the people who are into jobs are more in need of car for office commutation.
- It is revealed that majority of the family of the respondents comprises of 3 to 5 members. Thus it can be said that Kamrup Metro generally comprises of nuclear families having 3 to 5 members.

3.1.b Findings based on of the objective of the study

To analyse the preference of the buyers with regard to brand image of cars.

- It is revealed from the study that male customers tend to be more concern regarding the brand image of the car. While female customers are not much concern regarding brand image while selecting a car.
- It is also found that customers of older stage group are more concerned regarding the image of the brand. The customers of younger stage are found to be less concerned regarding the image of the brand.
- It is revealed that customers with good level of education i.e.mostly graduates and post graduates are more concerned about brand image of car.
- It is found that the customers having income level of Rs 80,000 & above are more concerned regarding image of the brand. While customers with income level of Rs 15000-Rs 40000 & Rs 40000-80000 are less concerned regarded brand image. Thus it can be inferred that customers having low and moderate income are less concerned regarding brand image , whereas the customers having high level of income are more concerned regarding brand image.
- It is revealed from the study that the brands such as Tata,followed by Toyota,Maruti Suzuki and Hyundai seems to have good brand image in Kamrup Metro. The brand Kia which is newly introduced in Kamrup Metro also seems to have a good brand image.

4. Suggestions

- It is observed that brand image heavily influences the purchase decision of the customers, thus building and maintaining a strong brand image is a constituency process, thus manufactures should specifically understand the different customer choices and need to invest heavily for building and maintaining a strong brand image.
- Brand image is a complex phenomenon in the automobile industry, in order to understand the brand image, the customers should understand the brand's core value and mission. The dealers should also provide information of the brand in detail such as origin of the brand, its sustainability ,performance of the brand in both domestic as well as foreign market

5. Conclusions: Brand image is one of the power asset in the automobile industry. A strong brand image influences customer perceptions towards the brand, helps to build loyal customers and also drive sustained success in the highly competitive market. Thus to have and build a strong brand image is of utmost importance for the companies to survive in the fierce competitive automobile industry.

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