

## **An analytical study on Relationship between Brand Image and Customer Satisfaction**

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### **Abstract**

There are little evidences for relationships between brand image and customer satisfaction. Therefore, this study attempts to know about the relationship between brand image and customer satisfaction. This study considered a sample size of 200 respondents. Results of correlation revealed that relationship between brand image and customer satisfaction is analysed using correlation analysis. Results of the correlation (0.865) indicate that there is strong correlation between brand image and customer satisfaction. Results of the hypothesis indicated that there is relationship brand image and customer satisfaction. In terms of the results of an overall regression, Values of R square and adjusted R square in model summary table are 0.746 and 0.747 respectively. It means that brand image explains about 75% of variation on customer satisfaction. F statistics in analysis of variance table is significant. In terms of the results of an individual regression, values of R square and adjusted R square. In terms of the values of R square and adjusted R square, brand image that is comprised of brand association, customer experience and advertising & marketing explain around 73% of variation on customer satisfaction. Value of SS regression, SS residual and SS total are 4399.754, 1658.601 and 6058.355 respectively. MS regression and MS residual are 1466.585 and 8.462 respectively. F statistics (173.309) is significant. In terms of the coefficient table, unstandardised beta coefficients for constant is 7.885 and those of brand association, customer experience and advertising & marketing are .841, 1.161 and .602 respectively.

**Key Words:** Brand Image, Customer Satisfaction, Relationship.

**JEL classification:** I35, P12, R23, R18

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## **Introduction**

Studies have defined that brand image is an image that a brand has and have proved that there are different factors for brand image. Similarly, studies have also proved that customer satisfaction is a psychological condition that has many benefits to individuals and companies. There are number of factors for customer satisfaction.

Andreassen and Lindestad (1998) studied about the impact of corporate image on quality, customer satisfaction and loyalty for customers with varying degrees of service expertise. Data were collected from 600 individual customers categorized as having high or low service expertise of three companies within the package tour industry. This study concluded that corporate image and customer satisfaction are not two separate routes to customer loyalty. Corporate image impacts customer loyalty directly whereas customer satisfaction does not. Rita (2007) studied about corporate brand image, satisfaction and store loyalty. Customers are satisfied when the store is neat and pleasant and when they feel that the store understands their needs. Only certain customer segments are interested in store brands. Satisfied customers are loyal. Jay and Dwi (2000) studied about customer loyalty in the hotel industry. This study highlighted about the role of customer satisfaction and image. The factors of image and customer satisfaction are positively related to customer loyalty in the hotel industry. This study used data collected from chain hotels in New Zealand. Findings indicated that hotel image and customer satisfaction with the performance of housekeeping; reception, food and beverage, and price are positively correlated to customer loyalty.

Although there are research findings among brand image, customer satisfaction and so on. There are little evidences for relationships between brand image and customer satisfaction. Therefore, this study attempts to know about the relationship between brand image and customer satisfaction.

## **Research question and objective**

Researcher raises research question as whether there is relationship between brand image and customer satisfaction?. This research question is converted into research objective as “to know the relationship between brand image and customer satisfaction”.

### **Motivation of the Study**

This study is important in several ways. Brand image is instrumental for marketing programme. Martin (1995) stated that developing and managing brand image is an important part of a firm's marketing programme. Brand image has been studied with some other constructs such as brand attitude and brand equity. James, Louis and Bruce (2001) studied about the effect of brand attitude and brand image on brand equity. Similarly, Eva and Leslie (2004) studied about the effect of brand extension strategies upon brand image.

### **Review of Literature**

Yu-Shan (2010) studied about the drivers of green brand equity. It was studied about green brand image, green satisfaction, and green trust. This research study was information and electronics products in Taiwan. The results showed that green brand image, green satisfaction, and green trust are positively related to green brand equity. Martin (1995) studied about the effects of culture and socio-economics on the performance of global brand image strategies. This study examines the brand image-performance linkage for consumer goods in two categories marketed internationally. This study develops a conceptual framework that identifies various cultural and socioeconomic environmental characteristics of foreign markets that are hypothesized to affect brand image performance. Results from a 10 country/60 region study indicate that cultural power distance, cultural individualism, and regional socioeconomics affect the performance of functional (problem prevention and solving), social (group membership and symbolic), and sensory (novelty, variety, and sensory gratification) brand image strategies. James, Louis and Bruce (2001) found that the results indicate that brand equity can be manipulated at the independent construct level by providing specific brand associations or signals to consumers and that these associations will result in images and attitudes that influence brand equity.

Eva and Leslie (2004) studied about the effect of brand extension strategies upon brand image. From a sample of 389 consumers the paper demonstrates that the extension strategy dilutes the brand image. Through a regression analysis it is shown that the perceived quality of the brand and

consumers' attitudes towards the extension positively influence both the general brand image (GBI) and the product brand image (PBI) after the extension. While familiarity with the products of the brand only affect the GBI, the perceived degree of fit affects the PBI. Anca and Roderick (2007) studied about the influence of brand image and company reputation where manufacturers market to small firms. The results indicate that the brand's image has a more specific influence on the customers' perceptions of product and service quality while the company's reputation has a broader influence on perceptions of customer value and customer loyalty.

Kisang, Heesup, and Tae-Hee (2008) studied about the relationships among overall quick-casual restaurant image, perceived value, customer satisfaction, and behavioral intentions. The findings indicate that overall quick-casual restaurant image significantly influences perceived value, and overall quick-casual restaurant image and perceived value had a significant role in influencing customer satisfaction. Jung, and Yi (2006) studied about brand attitudes and customer satisfaction-loyalty relation that moderates the role of product involvement. Structural equation modeling shows that customer satisfaction has both direct and indirect effects on loyalty, whereas and attitudes and corporate image have only indirect effects through their mediating influence on brand attitudes.

**Conceptual model**

Review of literature assist to develop the following conceptual model as depicted in Figure 1.

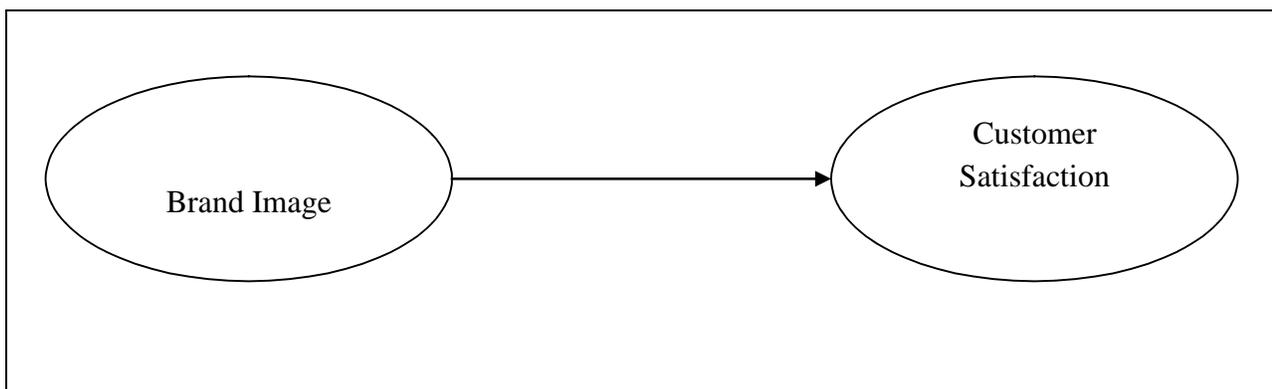


Figure 1: Conceptual Model between brand image and customer satisfaction

(Source: Review of Literature & Ismail, 2016)

**Hypothesis Development**

Developed hypothesis is tabulated in Table 1.

**Table 1: Hypothesis development**

Null hypothesis	Alternative hypothesis
There is no relationship between brand image and customer satisfaction	There is relationship between brand image and customer satisfaction

**Methodology**

This study considered a sample size of 200 respondents. Data were collected from these respondents during the period of fourth quarter of 2015 and the first quarter of 2016. Data collectors were trained undergraduates from South Eastern University of Sri Lanka. This study used correlation and regression analyses with for finding the relationship between brand image and customer satisfaction. SPSS having the version of 22 was applied in this study.

**Results and Discussion of Findings**

**Correlation**

Relationship between brand image and customer satisfaction is analysed using correlation analysis. Results of the correlation (0.865) indicate that there is strong correlation between brand image and customer satisfaction. Results of the correlation are tabulated in Table 2.

**Table 2: Correlations**

		BRANDIMAGE	CUSTOMERSATISFACTION
BRANDIMAGE	Pearson Correlation	1	.865**
	Sig. (2-tailed)		.000
	N	200	200
CUSTOMERSATISFACTION	Pearson Correlation	.865**	1

	Sig. (2-tailed)	.000	
	N	200	200
**. Correlation is significant at the 0.01 level (2-tailed).			

**Hypothesis Testing**

Developed hypothesis is tested and results are tabulated in Table 3.

**Table 3: Results of hypothesis testing**

Null hypothesis	P value	Rejection	Alternative hypothesis	Acceptance
There is no relationship between brand image and customer satisfaction	0.000	Rejected	There is relationship between brand image and customer satisfaction	Accepted

Since p value is less than 0.05 researcher rejects the null and accepts the alternative. Accepting the alternative refers to that there is relationship brand image and customer satisfaction.

**Regression Analysis**

Regression analysis is undertaken in two ways. The first way is to analyse regression on an overall basis. Results of an overall basis are discussed in this section.

Values of R square and adjusted R square in model summary table are 0.746 and 0747 respectively. It means that brand image explains about 75% of variation on customer satisfaction. Table 4 tabulates the values of R square and adjusted R square.

Table 4: Model Summary - Overall

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
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1	.865 <sup>a</sup>	.747	.746	2.78009
a. Predictors: (Constant), BRANDIMAGE				

F statistics in analysis of variance table is significant. Related statistics in analysis of variance are tabulated in Table 5.

**Table 5: ANOVA - Overall**

Model		Sum of Squares	Df	Mean Square	F	Sig.
1	Regression	4528.035	1	4528.035	585.858	.000 <sup>a</sup>
	Residual	1530.320	198	7.729		
	Total	6058.355	199			
a. Predictors: (Constant), BRANDIMAGE						
b. Dependent Variable: CUSTOMERSATISFACTION						

Coefficient table is tabulated in table 6.

**Table 6: Coefficients - Overall**

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	4.456	2.329		1.913	.057
	BRANDIMAGE	.699	.029	.865	24.205	.000
a. Dependent Variable: CUSTOMERSATISFACTION						

Similarly, one of the two ways is to analyse regression on an individual basis. Results of an individual basis are discussed in this section.

**Model Summary - Individual**

Model Summary – Individual table tabulates the values of R square and adjusted R square. In terms of the values of R square and adjusted R square, brand image that is comprised of brand association,

customer experience and advertising & marketing explain around 73% of variation on customer satisfaction. Related statistics are tabulated in table 7.

**Table 7: Model Summary - Individual**

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.852 <sup>a</sup>	.726	.722	2.90899
a. Predictors: (Constant), BRANDASSOCIATION, CUSTOMEREXPERIENCE, ADVERTISINGANDMARKETINGCOMMUNICATION				

**Analysis of Variance - Individual**

Table 8 tabulates about the statistics about analysis of variance. Value of SS regression, SS residual and SS total are 4399.754, 1658.601 and 6058.355 respectively. Df for SS regression, SS residual and SS total are 3, 194 and 199 respectively. MS regression and MS residual are 1466.585 and 8.462 respectively. F statistics (173.309) is significant. All the related statistics are tabulated in Table 8.

**Table 8: ANOVA - Individual**

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	4399.754	3	1466.585	173.309	.000 <sup>a</sup>
	Residual	1658.601	196	8.462		
	Total	6058.355	199			
a. Predictors: (Constant), BRANDASSOCIATION, CUSTOMEREXPERIENCE, ADVERTISINGANDMARKETINGCOMMUNICATION						
b. Dependent Variable: CUSTOMERSATISFACTION						

**Coefficient- Individual**

In terms of the coefficient table, unstandardised beta coefficients for constant is 7.885 and those of brand association, customer experience and advertising & marketing are .841, 1.161 and .602 respectively. Related statistics with respect to coefficients are tabulated in Table 9.

**Table 9: Coefficients - Individual**

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	7.885	2.363		3.337	.001
CUSTOMEREXPERIENCE	.841	.154	.290	5.460	.000
ADVERTISINGANDMARKETINGCOMMUNICATION	1.161	.147	.447	7.914	.000
BRANDASSOCIATION	.602	.161	.220	3.735	.000
a. Dependent Variable: CUSTOMERSATISFACTION					

**Conclusions**

Results of correlation revealed that relationship between brand image and customer satisfaction is analysed using correlation analysis. Results of the correlation (0.865) indicate that there is strong correlation between brand image and customer satisfaction. Results of the hypothesis indicated that since p value is less than 0.05 researcher rejects the null and accepts the alternative. Accepting the alternative refers to that there is relationship brand image and customer satisfaction. In terms of the results of an overall regression, Values of R square and adjusted R square in model summary table are 0.746 and 0.747 respectively. It means that brand image explains about 75% of variation on

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### References

- Anca, E. C. and Roderick, J. B. (2007). The influence of brand image and company reputation where manufacturers market to small firms: A customer value perspective. *Industrial Marketing Management*, Volume 36, Issue 2, pp. 230–240
- Andreassen, T. W. and Lindestad, B. (1998). Customer loyalty and complex services: The impact of corporate image on quality, customer satisfaction and loyalty for customers with varying degrees of service expertise. *International Journal of Service Industry Management*, Vol. 9, No. 1, pp. 7-23
- Eva Martínez, Leslie de Chernatony, (2004) "The effect of brand extension strategies upon brand image", *Journal of Consumer Marketing*, Vol. 21 Iss: 1, pp.39 - 50
- James B. Faircloth<sup>a</sup>, Louis M. Capella<sup>b</sup> & Bruce L. Alford (2001). The Effect of Brand Attitude and Brand Image on Brand Equity. *Journal of Marketing Theory and Practice*, Volume 9, Issue 3, 2001, pages 61-75
- Jay, K. and Dwi, S. (2000) "Customer loyalty in the hotel industry: the role of customer satisfaction and image", *International Journal of Contemporary Hospitality Management*, Vol. 12 Iss: 6, pp.346 – 351
- Jung-Chae Suh, and Yi Youjiae (2006). When Brand Attitudes Affect the Customer Satisfaction-Loyalty Relation: The Moderating Role of Product Involvement, *Journal of Consumer Psychology*, Volume 16, Issue 2, 2006, Pages 145–155.

- Kisang, R., Heesup, H. and Tae-Hee, K. (2008). The relationships among overall quick-casual restaurant image, perceived value, customer satisfaction, and behavioral intentions. *International Journal of Hospitality Management*, Volume 27, Issue 3, September 2008, Pages 459–469
- Martin S. Roth (1995). The Effects of Culture and Socioeconomics on the Performance of Global Brand Image Strategies. *Journal of Marketing Research*, Vol. 32, No. 2 (May, 1995), pp. 163-175.
- Rita, M. (2007). Corporate brand image, satisfaction and store loyalty: A study of the store as a brand, store brands and manufacturer brands. *International Journal of Retail & Distribution Management*, Vol. 35 Iss: 7, pp.544 – 555
- Yu-Shan, C. (2010). The Drivers of Green Brand Equity: Green Brand Image, Green Satisfaction, and Green Trust. *Journal of Business Ethics*, Vol. 93, Iss. 2, pp 307-319