BRAND LOYALITY ON THE BASIS OF OLFACTORY TECHNIQUES USING DISCRIMINANT ANALYSIS: A CASE OF CAFE COFFEE DAY STORE IN KOLKATA, INDIA

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ABSTRACT

Consumers of modern days are concerned with emotional connections along with product attributes during buying. This has led to a whole new advent of sensorial marketing, beginning the era of experiential marketing. Utilizing this opportunity, marketers are tapping the consumer’s emotive sense and exploring the option of attaching sensory cues, like smell, in marketing, thereby use of olfactory cues is increasing in brand differentiation. The aim of this paper is to assess relationship of likability of fragrance with strength of aroma in purchase. The help of a case Café Coffee Day (CCD) has been taken to investigate the above as this brand tries to enhance overall in-stay experience of consumers with implementation of Olfactory Branding. This article reflects outcome of a survey using judgemental sampling plan in few selected CCD store in Kolkata, having an atmosphere with strong aroma of coffee. A structured schedule was used to collect data from 200 respondents using appropriate scale with variables chosen from study outcomes of other researchers mentioned in serious academic literatures. The data obtained was treated with classification technique of discriminant analysis exploring the linkage of strength of aroma with likability of fragrance and its relationship with shopping under aromatic conditions. The analysis joins strength of aroma with shopping under aromatic conditions with likability of fragrance both measured under 5 point metric scales and connects it with the non metric variable shopping under aromatic conditions. This shows that there is an influence of fragrance with consumer’s choice and subsequent purchase decision.

Keywords: Scent Branding, Retail Store Ambience, Consumer Awareness, Sensory Stimulus, Discriminant Analysis.

INTRODUCTION

The pleasantness or unpleasantness of aroma has got its own effect on (liking or disliking) human beings. It has been observed by the studies of Mehrabian and Russell (1974) that there is a relationship between the environmental stimuli and approach or avoidance associated with emotional states like pleasure, arousal and dominance (Ward, Davies, Kooijman, 2007). The combination of these determines whether a person wishes or not to remain in a particular environment. Thus the marketers of the modern day are adding aromatic effect in their product or service offerings. They have understood that there is some amount of sub-conscious correlation between liking/disliking of aroma with purchase decision. The research has been taken up investigating the liking and disliking of aroma and its effect on purchase decision for investigation, a few of them are presented below. Anselm and Kostelijk (2008) pointed out that
brand identity has been correlated mainly with a unique set of brand associations that a firm creates and maintains. It invites a value proposition with functional and emotional benefits. The emotional linkage between brands and consumers has been proposed to be a key differentiator in building strong brands. These days consumers seek for emotional experiences along with product experience in buying decisions (Brembeck and Ekstro¨m, 2004; Ratneshwar and Mick, 2005). In order to maintain customer loyalty to a brand, it is transformed from a core product into an experiential product (Pullman and Gross, 2004). Klaus and Maklan (2007) identified that a brand experience occur when a firm intentionally build one to engage their customers. Modern consumers have shifted their purchase decision making from the rational point to a more emotional and experiential proposition. This is reflected in the study of Kim et al. (2009), where the marketers are investing more towards the retail experiential to provide a differential effect to encourage consumers consume more. This further has been reinforced in the study of Daniel et.al. (2012). For example, Westin group of Hotel uses a contemporary White Tea fragrance throughout their entire properties for enhancing the In-Stay experience of their customers.

Michon et al. (2007) pointed out that on the occasion of competition becoming fierce, the industry players from the retail sector are adopting strategic innovations to uplift the consumers’ shopping experience and increase frequency of purchase or visit, they are adopting experiential cues like positive fragrance that would attach consumers to the stores and further increase the duration of stay in the store. It has also been observed from the earlier studies of Lindeman (2007) that shoppers who spend more time within the store are more likely to purchase than those purchasers who are spending lesser time in the store. Kooijman’s (2003) suggests a clear linkage with Mehrabian and Russell (1974) model where Retailers are attempting to manipulate the ‘emotionality of the customer bond’; and are, in essence, try to ultimately facilitate consumers reaching a state of ‘flow’ (Kooijman 2003). Soars (2009) pointed out that a soothing store environment can actually create a positive mind set amongst the consumers with the possibility of contributing to the propensity to spend more time within the store outlet. Since fragrance is one of the cues regularly used in stores, it is suspected that there might be some link between the olfactory sense organs and purchase decisions, as the olfactory sense organ has got a direct link with the brain and could immediately evoke emotions (Soars, 2009; Kim et al. 2009). The study conducted by Soars (2009) found that aromatic shopping conditions could actually create a positive impact for shoppers within a retail outlet, especially for female consumers. This has been further supported by the study of Parsons’ (2009) that shows the use of an ambient smell inside a lingerie store could actually enhance the entire marketing experience and an inappropriate smell used in an odorless retail outlet can result in an undesirable shopper behavior.

To explore further and understand the relationship between a retail environment in the context of consumer behavior and their responses, a stimulus-organism-response (S-O-R) of Mehrabian and Russell (1974) has been considered. They proposed that there exists an effect of arousal, dominance and pleasure, influence consumer behavior in certain environments. Donovan and Rossiter (1982) discussed that arousal and pleasure constitute a significant factor in predicting consumer approach and intentions with respect to time and affiliation. Later studies conducted by Donovan et al. (1994) also pointed out that the pleasantness of in-store atmospherics are an important component of predicting whether an individual wishes to, approach, or stay, or spend money in the store. Studies of Darden and Babin (1994) and later studies conducted by Spangenberg et al. (1996) throw light on the fact that the consumer perception of a store are related to various sensory cues, like color, lighting, music, scent, etc.,
which aim at stimulating positive customer responses. Moreover, in-store components can have impact on shopper behavior and perceptions as pointed out by Donovan and Rossiter (1982) and through later studies conducted by Baker and Cameron (1996) and Turley and Chebat (2002). These studies show the enhancement of positive emotions and feelings of the consumers. Ambient scent research conducted by Bone and Ellen (1999) reveals that the presence of an ambient scent affects customer performance in terms of intentions to visit and return to a store and also establishes a positive perception of a particular commercial environment which is being noted by Chebat and Michon (2003). Various other studies conducted by Bone and Ellen (1999), Chebat and Michon (2003) have considered the pleasantness of scents emanating from an object, or a service associated with it that is perceived by the consumers as being pleasant or unpleasant. It sounds now clear that pleasant scents have positive effects on time spent in a store, the number of times products are examined, as well as the total time devoted by the consumers for product evaluation Spangenberg et al. (1996) Morrin and Ratneswar (2000 & 2003), Schifferstein and Block (2002), which supports our suspicion stated above. Based on the S-O-R model, it has been seen by Morrin (2010) reinforced that pleasant scents result in pleasant/unpleasant affective consumer responses. Moreover research of Spangenberg et al., (2006) indicate an evoking of pleasant scent is a cheap and effective means of enhancing customer shopping behavior. Store environment receives a significant importance from the studies conducted by Ward et al. (2003), Mitchell et al. (1995) where it is normally seen that customers get influenced by pleasant smell, considering not only from the product’s aspects but a considerable portion of it from the store environment aspect as well. Parsons (2009) demonstrated how, through the active use of associated scents, an otherwise naturally odorless store could enhance shopper behavior and gain a competitive advantage (Schifferstein and Blok, 2002). All in all, these evidence points towards the effect of impact of olfactory cues on consumer’s buying behavior, leading them to spend more money. Hence according to (Parsons, 2009; Soars, 2009), a brand new industry has emerged named the Scent Industry. The research of Lempert (2005) has added a new dimension to Scent Marketing. Studies conducted by Lindstrom (2005) Tan (2008) and Parsons (2009) has added a new dimension of research of Brand management based on experiential cues, which has been termed as Olfactory Branding by Kim et al. (2009). Subsequent study of Ward et al. (2003) show that the olfactory aspects of commercial environments refer to the application of pleasant scents as a cue or stimulus, to produce an effect in the individual’s mind, which in turn impact the actual behavior, without the person being aware of the process. In this context, three subsequent considerations of using scent have been emphasized in the research, viz. the presence of a scent, its pleasantness and its fit with environmental and service elements (Bone and Ellen, 1999). In fact, a number of studies have demonstrated the positive effects of scents on buying intentions and store image (Parsons, 2009).

OBJECTIVE

This paper seeks to establish a linkage between influences in purchase decision with likability of fragrance with the strength of aroma using discriminant analysis.

METHODOLOGY

Based on the above discussion, a survey research was conducted to explore the linkage in purchase decision with likability of fragrance with the strength of aroma using discriminant analysis. Discriminant function analysis is used to determine which variables discriminate
between two or more naturally occurring groups. Here we are investigating such linkages of variables relating to Olfactory Branding with reference to the case of a Café Coffee Day (CCD) Store in Kolkata as this brand tries to enhance the overall In-stay experience of a consumer with proper implementation of olfactory techniques inside all their outlets. A survey was conducted using an appropriate question schedule including the variables listed above found through the study of Ward et al. (2003) through using appropriate attitudinal agreement type scale in selected CCD outlets in Kolkata. A total of 200 consumers who visit CCD were surveyed using convenience type judgmental (Non Probability) sampling plan. Since all the respondents were personally surveyed, complete answer was received. The Data received was treated with SPSS 20.0 to test the association of variables using discriminant analysis (Tables 1 and 2).

Table 1

<table>
<thead>
<tr>
<th>CALCULATIONS</th>
<th>Canonical Discriminant Function Coefficients</th>
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<tbody>
<tr>
<td>Function</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Strong is the aroma</td>
<td>-0.458</td>
</tr>
<tr>
<td>Likability factor of the fragrance</td>
<td>0.554</td>
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<tr>
<td>(Constant)</td>
<td>0.130</td>
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Unstandardized coefficients

Functions at Group Centroids

<table>
<thead>
<tr>
<th>Shop under aromatic conditions</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>0.113</td>
</tr>
<tr>
<td>No</td>
<td>-0.113</td>
</tr>
</tbody>
</table>

Unstandardized canonical discriminant functions evaluated at group means

Table 2

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<tr>
<th>CLASSIFICATION RESULTS^A</th>
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<tbody>
<tr>
<td>Shop under aromatic conditions</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Original Count</td>
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<td></td>
</tr>
<tr>
<td>Original %</td>
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54.0% of original grouped cases correctly classified

RESULTS AND DISCUSSION

The result is surprisingly encouraging. It has been found that there is a connecting relationship between shopping under aromatic conditions with strength of aroma and likability of fragrance. This shows that there exists an influence of fragrance with consumer’s choice and subsequent purchase decision in context of CCD Retail Outlet.
CONCLUSION

In this study, the case of CCD has been taken as a representation of the investigating environment. This is an explorative study as we have used Non Probability Sampling techniques and Judgmental (Convenience) Sampling and hence this is an indicative study. Therefore there is a scope of expanding this study to encompass a larger investigating environment using Conclusive Research Design through experimentation using experimental and control group design. The outcome of such investigation can be examined with ANOVA to draw concrete results.

REFERENCES


