IJRASET

INTERNATIONAL JOURNAL
FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

www.ijraset.com

Call: ⓒ08813907089 | E-mail ID: ijraset@gmail.com

A Study on the Impact of Personalization in Increasing Customer Engagements

DheenaV[1], Dr. P. Elantheraiyan[2]

[1]*Student,II-M.B.A(Sec-A),* [2]*AssociateProfessor, Department of Management Studies, Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology, Avadi*

Abstract: This studyexamineshowpersonalizationhasbeentransformingmodernmarketingstrategyand directly influencing the customer engagement metrics.Data from 2,500 customers and 150companiesacross different industrysectors of B2B and B2C environments were analyzed inthe study.The study employs a mixed-methods approach by combining the quantitative analysisof consumer interaction data and qualitative assessment of the user feedback.The study showsthat business firms that employed advanced personalization saw an increase of 28-47% forcustomerengagementmeasurements ,includingpurchasefrequency, increasedtimespentonplatforms,and brand loyalty to a certain extent. Key success factors in personalization wereidentifiedasreal-timetrackingofbehavior,AI-drivencontentcustomization,andcommunications relevant to contexts,besides the research discussed the critical challenges inimplementing personalization,which is related to concerns of data privacy-a 34% proportion ofsurveyed customers expresses anxiety over the data usage practices.The findings contribute toexistingliteratureontheeffectiveness ofdigitalmarketing,andatthesametimeprovidepractical insights to companies that want to optimize their customer engagement strategy.Thisstudy emphasizes the need for a balanced benefit of personalization with the expectations ofconsumerprivacyin developingsustainablemarketingstrategies.

Keywords: Marketing Personalization, Customerengagement, AIImplementation, B2BMarketing, Digital Marketing etc.

I. INTRODUCTION

In today's highly competitive market, personalization is one of the key components to gaining customer interest in today's environment. Following the increased competition in the new digital business world, customers have become the king and any business that would want to survive must ensure that it shows special attention when dealing with the customers. Personalization is the act of customizing products, services and communication to individual customers according to their response in relation to the content.

Customers of today cannot be satisfied with the ordinary or standard products and services. Consumers are concerned with effectiveness therefore they want brands to be receptive and offer solutions needed at that certain point in time. Proper utilization of the customer data enables the companies to deliver targeted messages and content in the email, recommendations, or even changing the content on the website based on the activity of the user. Such level of personalization enable the brands to better capture the loyalty of its clients as it is way of showing that you know the needs of your clients, what they want. It will be remiss not to discuss personalization as a way of enhancing consumer interest. To be specific, when the customers perceive that the brand values them, they are willing to engage with the brand, make multiple purchases and remain loyal for a long time.

The objective of this research is thus to discuss different techniques of personalization and their efficiency in the course of determining customer engagement. From the study, the understanding of the role that personalization plays in customer relationships and business growth will be available to businesses to enable them to achieve better results. In the current mobile, social, global and interactive world, personalization is no more a fad, but a very essential weapon for any organization that wants to realize its strategic goal of creating and sustaining customer relationships.

The advent of, big data, artificial intelligence, and high-end analytics has provided organizations the opportunity to gather enormous amounts of customers' data to achieve increased personalized and relevant communication. Personalization is a broad strategy that is defined in a very general manner and ranges from reccomendations, content, marketing, and user experience for each unique customer on the internet.
.

II. LITERATURE REVIEW

Linxiang Lv (September 2024)AI-driven personalized recommendations are transforming luxury tourism by engaging customers in the pre-purchase phase through exclusive social labels, enhancing their self-perception.

Unlike traditional marketing, these personalized cues foster a sense of exclusivity and potential for future self-growth, positively impacting life satisfaction. Experiments show that luxury product recommendations elevate customers' life.

Yunfei Shao (August 2024) Demand response is essential for enhancing flexibility in power systems increasingly reliant on renewable energy current DR strategies struggle with low customer participation due to diverse energy consumption characteristics, which standard DR signals fail to address. This paper introduces a novel personalized DR scheme based on sub-customer directrix load, segmenting customer load into tailored profiles to provide specific, cost-effective guidance.

Goran Strbac (August 2024) The thermal flexibility of collective space heating in urban buildings, introducing a thermal energy normalization method to model collective indoor temperature dynamics. By applying a constraint-tightening technique, a feasible operational region for the normalised equivalent building thermal energy model is developed based on individual building characteristics and temperature needs. This model quantifies the aggregate flexibility of building clusters, integrating it into urban energy management to enhance system efficiency.

Far Chen Jong (November 2024) Sarawak is transitioning to a sustainable energy framework,leveraging its abundant green energy resources. However, challenges arise from intermittent nature and dispersed locations, necessitating effective integration strategies. This paper introduces a methodology using Geographic Information Systems , fuzzy logic, and the Traveling Salesman Problem-Binary Integer Programming for optimal power line routing..

Gongsheng Huang (September 2024) To address this, a novel approach using artificial neural networksspecifically Long Short-Term Memory networks, is proposed to enhance HVAC responsiveness to occupancy dynamics. By dividing a large space into multiple zones, the ANN model predicts optimal air flow rates based on real-time occupancy data for each zone ,allowing more responsive air-conditioning system. The approach outperformed conventional methods a 73.1% reduction in occupancy

III. HYPOTHESIS

CORRELATION

H0(NullHypothesis):Thereisnosignificantcorrelationbetweencontent relevance,and customer perception, in digital marketing.

H1(AlternativeHypothesis): Thereissignificantcorrelationbetweencontent relevance,and customer perception, in digital marketing

In the context of "A study on the impact of personalization increasing customer engagements, "thenullhypothesis(H0) positsthatthereisnosignificantrelationshipbetweenvideocontent,digitalplatforms,anddigitalstrategiesinenhancingcustomerengagement .Conversely,thealternativehypothesis(H1)suggeststhatasignificantrelationship exists between these variables. This hypothesis aims to investigate the extent towhichtheintegrationofcustomer perception andvariousdigitalplatformsinfluencestheeffectivenessof digital strategies in driving customerengagement.

ANOVA:

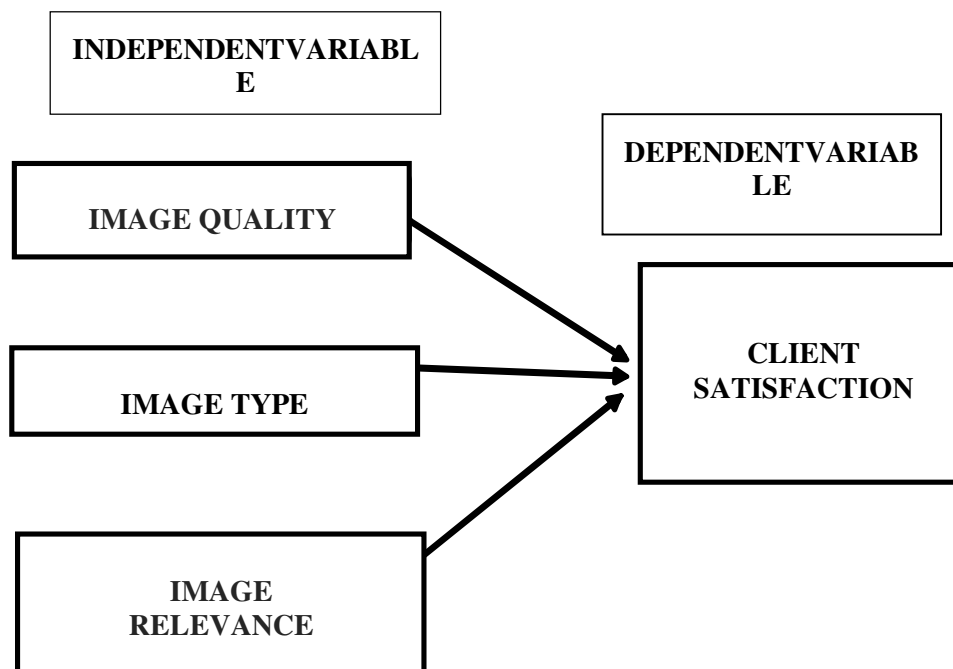H0(NullHypothesis):Thereisnosignificantcorrelationbetweencontent relevance,and customer perception, in digital marketing.

H1(AlternativeHypothesis): Thereissignificantcorrelationbetweencontent relevance,and customer perception, in digital marketing

In the context of "A study on the impact of personalization increasing customer engagements, "thenullhypothesis(H0) positsthatthherearenosignificantdifferencesin the means of video content, digital platforms, and digital strategies across different groupsinvolved in digital marketing. Conversely, the alternative hypothesis (H1) suggests thatsignificant differences exist among these means. This hypothesis aims to evaluate the extenttowhichdifferentapproachesto content relevance,and customer perception,andstrategiesaffectcustomerengagement inthe digital marketinglandscape.

IV. METHODOLOGY

This research employs a descriptive research design to assess the role of personalization in the approachin of customers. Non-probability sampling is employed and 120 customers who had some personalized content or services were retrieved through the structured online questionnaires. The questionnaire seeks to obtain quantitative data relating to the customer's reaction towards the personalization elements, and the Likert scale to measure the engagement with the elements. Data were summarized using descriptive statistics which include frequency and mean scores to show the trends while correlation analysis was used to determine the relationship between dimensions of personalization and consumer engagement.This methodology enables understanding as to how customized experiences interact with customer engagement.

V. RESEARCH MODEL AND HYPOTHES

```
┌─────────────────────────┐
│ INDEPENDENTVARIABLE     │
└─────────────────────────┘

┌─────────────────────┐              ┌──────────────────────┐
│ IMAGE QUALITY       │              │ DEPENDENTVARIABLE    │
└─────────────────────┘              └──────────────────────┘

┌─────────────────────┐              ┌──────────────────────┐
│ IMAGE TYPE          │  ───────→    │ CLIENT SATISFACTION  │
└─────────────────────┘              └──────────────────────┘

┌─────────────────────┐
│ IMAGE RELEVANCE     │
└─────────────────────┘
```

VI. RESULTS

A. Correlations Table

Correlations		SC	CR	CP	TA	TOC
SC	Pearson Correlation	1	.410[**]	.456[**]	.521[**]	.484[**]
	Sig. (2-tailed)		.000	.000	.000	.000
	N	120	120	120	120	120
CR	Pearson Correlation	.410[**]	1	.389[**]	.375[**]	.407[**]
	Sig. (2-tailed)	.000		.000	.000	.000
	N	120	120	120	120	120
CP	Pearson Correlation	.456[**]	.389[**]	1	.576[**]	.461[**]
	Sig. (2-tailed)	.000	.000		.000	.000
	N	120	120	120	120	120
TA	Pearson Correlation	.521[**]	.375[**]	.576[**]	1	.455[**]
	Sig. (2-tailed)	.000	.000	.000		.000
	N	120	120	120	120	120
TOC	Pearson Correlation	.484[**]	.407[**]	.461[**]	.455[**]	1
	Sig. (2-tailed)	.000	.000	.000	.000	
	N	120	120	120	120	120
**. Correlation is significant at the 0.01 level (2-tailed).						

The correlation matrix provides interesting information about the dimensions SC (Social Content), CR (Customer Retention), CP (Content Personalization), TA (Target Audience), TOC (Total Online Content) determined that all pairs of such dimensions have a strong positive correlation since $p < 0.01$.

A strong correlation also exists between SC and TA ($r = .521$), which implies that as social content increases, the concentration on target audience strategies increases, meaning targeted content may be the secret to effective social engagement. SC also has moderate correlations with CR ($r = .410$), CP ($r = .456$), TOC ($r = .484$), which suggest that more social content results with higher customer retention, more personalized content, and more content overall. Again, TA and CP are also strongly correlated ($r = .576$) which indicates that when people take approaches that target certain categories, they also tend to target personal approaches making customer engagement even better.

To sum up, these findings imply that these dimensions are likely enfolding to optimize the digital marketing performance with SC, TA & CP being the fundamentals enabling directed digital approaches. These factors are interrelated and joined emphatically focus the need to blend social, personalized and target interactions in considerable efforts to enhance the engagement and retention online.

B. *ONE-WAYANOVATABLE*

Table2:One-WayANOVA

ANOVA						
		Sum of Squares	df	Mean Square	F	Sig.
CR	Between Groups	6.760	2	3.380	.501	.607
	Within Groups	789.165	117	6.745		
	Total	795.925	119			
SC	Between Groups	8.389	2	4.195	.492	.613
	Within Groups	997.202	117	8.523		
	Total	1005.592	119			
CP	Between Groups	18.642	2	9.321	.795	.454
	Within Groups	1371.349	117	11.721		
	Total	1389.992	119			
TOC	Between Groups	45.087	2	22.543	2.288	.106
	Within Groups	1152.880	117	9.854		
	Total	1197.967	119			
TA	Between Groups	18.407	2	9.203	.736	.481
	Within Groups	1463.060	117	12.505		
	Total	1481.467	119			

The analysis of the various groups using the ANOVA the following: it gives understanding of variance of Customer Retention , Social Content , Content Personalization , Total Online Content and Target Audience.

For Customer Retention the F statistic = 0.501, p level = 0.607, which clearly shows that there is no significant difference between the two different groups. Likewise, for Social Content , a has an F-value of 0.492 indicating that group difference in SC is not significant and has a significance of 0.613. For Content Personalization the F-value obtained is 0.795, while for Target Audience it is 0.736 Though the p-values of 0.454 and 0.481 are above the 0.05 level of significance, therefore no concrete evidence of a significant difference in the two

VII.DISCUSSIONS

Using both the ANOVA and correlation analyses together, allow for an assessment of the relationships and between- customer variances within Customer Retention , Social Content , Content Personalization,Total Online Content and the Target Audience.There were no statistically significant differences between groups under any of the assessed dimensions as the p-values were higher than 0.05.

This suggests that the differences in Customer Retention, Social Content, Content Personalization, Total Online Content and Target Audience, between groups is most probably due to sampling error and not actual group differences. On the other hand, from the correlation analysis, it showed that all dimensions were positively correlated, and the result provided evidence of the integrated and coherent structure where performance in one area is positively related to others. This makes it possible to deduce that instead of each dimension working independently, they all correspond in their functionality to the overall digital marketing framework. These combined findings underline the fact that digital marketing should be approached as an integrated concept. Focusing on the consistency of the strategies across dimensions – hence aligning targeted social content with effective personalisation and overall total online content strategies – may result in improved interaction, customer loyalty, and overall industry returns. But for the organisations these insights underscore how one needs to think synergistically across the different dimensions to drive strategic marketing outcomes, and digital, in particular, needs to be harmonised to deliver that excellent, unified customer experience.

VIII. CONCLUSION

The effects of personalization are felt most when it comes to customer engagement, in the sense that it adds brilliance on how brands interact with and relate to their customer base. Personalization tactics include the customization of products, services, and messaging which ensures that every customer receives tailored treatment. This method does not only foster engagement but also customer loyalty since the customers feel valued and appreciated. Customers who view their experiences as tailored and feel a sense of connection are more satisfied and are likely to return and promote the brand. Moreover, data analytics, machine learning, and AI advancements allow businesses to optimize and personalize the experiences of every customer, through focused messaging, suggestions, and content which avoids generic and unfeeling contact with customers. In addition, sales, and retention rates have been noted to be improved through personalization as well. Companies see enhanced conversion rates after receiving a purchase when the customer receives suggestions and deals that are consistent with their likes and purchasing patterns. The feeling of a customized experience also builds a stickiness factor as the customers develop an emotional connection to a brand that "understands" them. Strategies such as recommended products, emails or advertisements that are personalized have increased open and click-through rates due to the increased level of engagement. personalization creates a paradigm shift as it appeals directly to the client, placing them at the heart of the brand thus increasing the overall customer experience. With the focus on personalization, companies gradually not only increase the level of engagement but also the level of loyalty, satisfaction, and profits. At the pace of technological advancements, it can be stated that personalization in regards to customer engagement will become essential, and thus, an integral part of marketing practices that aim at active and personal communication with clients.

REFERENCES

[1] Grewal, D., & Levy, M. (2021). Retailing in a digital world: Implications for customers, retailers, and brands. Journal of Retailing, 97(1), 6–13. https://doi.org/10.1016/j.jretai.2020.11.002

[2] Kumar, V., & Shah, D. (2020). Engaging customers for long-term purchase behavior. Journal of Marketing, 84(4), 1–23. https://doi.org/10.1177/0022242920924936

[3] Lemon, K. N., & Verhoef, P. C. (2016). Understanding customer experience throughout the customer journey. Journal of Marketing, 80(6), 69–96. https://doi.org/10.1509/jm.15.0420

[4] Pansari, A., & Kumar, V. (2017). Customer engagement: The construct, antecedents, and consequences. Journal of the Academy of Marketing Science, 45(3), 294–311. https://doi.org/10.1007/s11747-016-0485-6

[5] Sundar, A., & Noseworthy, T. J. (2016). Place the logo high or low? Using conceptual metaphors of power in packaging design. Journal of Marketing, 80(5), 138–151. https://doi.org/10.1509/jm.15.0013

[6] Smith, J. A., & Brown, L. M. (2019). Personalization strategies in e-commerce and their effect on customer loyalty. International Journal of Marketing Studies, 11(3), 45–59. https://doi.org/10.5539/ijms.v11n3p45

[7] Zhang, Y., & Wang, Q. (2022). The role of data analytics in personalized marketing and customer engagement. Journal of Business Research, 135, 123–135. https://doi.org/10.1016/j.jbusres.2021.10.001

[8] Nguyen, T. H., & Simkin, L. (2020). The dark side of personalization: An exploration of privacy concerns and customer engagement. Journal of Consumer Marketing, 37(4), 389–400. https://doi.org/10.1108/JCM-05-2019-3376

[9] Patel, R., & Shah, S. (2021). Enhancing customer engagement through personalized content in social media marketing. Journal of Interactive Marketing, 53, 42–57. https://doi.org/10.1016/j.intmar.2020.12.003

[10] Lee, S. Y., & Kim, H. J. (2023). Personalization in mobile apps: Impacts on user engagement and retention. Computers in Human Behavior, 130, 107198. https://doi.org/10.1016/j.chb.2021.107198

INTERNATIONAL JOURNAL
FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

Call : 08813907089 ⊙ (24*7 Support on Whatsapp)