

# Analyzing User Behavior On Digital Platforms To Optimize Marketing Strategies And Improve Conversion Rates

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## Abstract

The digital landscape has especially affected the field of marketing through digital user behavior analytics used to enhance business conversion strategies. Measures like click through rates, duration of the user sessions, the bounce rates and the tendencies of a particular client buying products and services help organizations in making decisions about the customer. With these, the marketers are able to gain knowledge on trends, enhance the experience of the users, and well coordinate data-driven marketing and communication to create a good impact in the target market. As for the technological opportunities, main innovations, such as AI and machine learning, improve their capacity to anticipate behaviour, to target the audience or to offer a specialised content. Such tools allow for an immediate change in marketing strategies as per the need of users and other market factors. Thus, A/B testing or comparing two versions of a particular design or content, heatmaps that indicate problematic areas on the webpage, and funnel analysis that shows rough Converted/Prospect ratios and problem areas in changing the strategies for enhancing visitors' engagement and final purchasing decision. This abstract looks at how user behaviour analytics has influenced the current marketing strategies. It outlines the decentralised application of behavioural economics, analytics and tracking / monitoring of real-time customer data to create customer-centric solutions. It is for these reasons that the paper convinces audiences that by shifting focus to personalization, performance measurement, and ongoing improvement, organizations can achieve greater conversions and stabilize customer loyalty. Finally, analysis of the users' behavior on the Internet enables organisations to develop higher effectiveness of their advertising communications, and thereby guarantees long-term viability and sustainability in the context of the current info-communication environment.

**Keywords:** Marketing strategy, Digital commerce, Digital marketing challenge, A/B testing

## INTRODUCTION

In the current and digital the understanding of the proper use of the affected effective marketing strategy is the most important factor for the analyzing of business marketing. For the higher authority of a business is more important to focus on the increasing growth of application of the modern technology for digital platform marketing. As per the data for the Digital commerce platform market based on the year 2023, the total market size of digital marketing is USD 9.95 billion, and the rate of the cage is 18.1% (Zionmarketresearch, 2024).

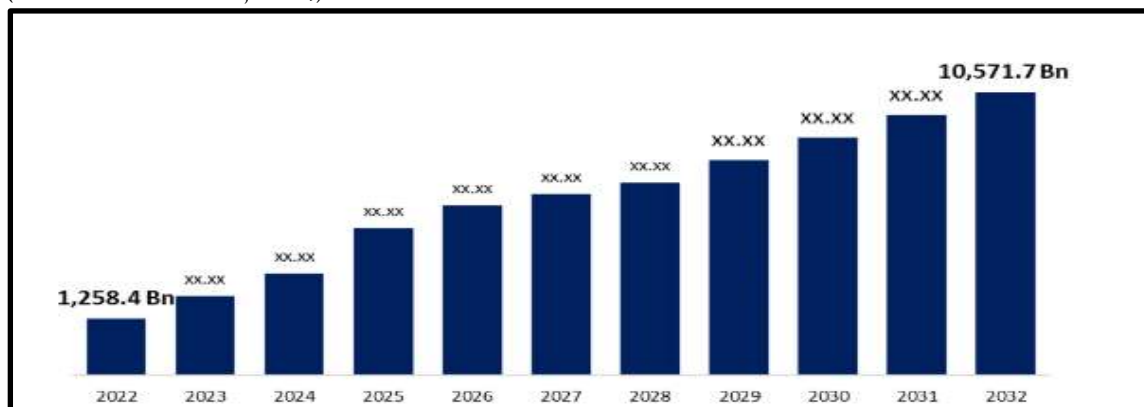


Figure 1: Digital market size in the year 2032

(Source: Sphericalinsights, 2024)

In the above statistical figure, the total market size in the year 2023 for using digital technology has been shown which is 10571.7 Bn. Therefore, it can be said that the application of digital technology is going to be more beneficial for the current market in order to their growth and success

### **Research Aim**

The study aims to find the user behavior that impacts on the optimization of marketing strategy and determine the proper strategy to develop the conversion rate in marketing in digital platforms.

### **Objectives**

**RO1:** To analyse the proper Strategies and design elements that can increase the customer and increase the conversion rate

**RO2:** To estimate the impact of this different kind of content formats in order to customer retention

**RO3:** To evolve the effective digital marketing challenge by which the customer engagement rate can be increased

**RO4:** To analyse the security features like the SSL certificate and user review that I enhance the trust among the customers

## **LITERATURE REVIEW**

**Marketing strategies and design elements that can increase the customer and conversion rate** (Sudirjo, 2023) (Paul, Ueno & Dennis, 2023)

Gaining more customers and enhancing customers conversion rates remain as the chief goals of most organizations with an intention of succeeding in today's packed digital market place. These aims are possible with well-coordinated promotion methods along with the key characteristics constitutive of a CFD that ensure smooth user navigation throughout the funnel. By using of the ones mentioned above, the businesses can enhance customers' attention and enhance the level of conversion (Chaffey, 2019).

Personalization is hands down one of the best ways to boost not only the number of customers, but the percentage of those who are willing to make a purchase as well. With help of the collected credentials like demographics, past activity, and browsing history, a business can provide a more personalized content, products, and advertisements for each user (Smith, 2020). They define the customer population into different groups in that marketing strategies aimed at one segment will not be applicable to the other segment in a business (Zhu et al., 2021). For instance, web stores may present to a client goods they think the client may like depending on their previous shopping behavior. Other techniques in email marketing that have the ability to increase conversion rates include segmenting and targeting customers via sending follow-ups of the products that the buyers viewed without checking out the purchasing option (Gibbs, 2018). Having a good UX design is important to ensure that users stay interested and progress through the funnel onto the next stage. Navigation and page load, as well as an optimal mobile interface, must remain fundamental aspects in the design for achieving higher customer loyalty and conversion rates (Nielsen & Norman, 2016). While using the page if users run out of what they are looking for, or if they have to wait for long on the site, there are likely to leave the site without buying. Some of the other areas of UX optimization are keeping the purchase process simple and where possible few steps. Check out is made easy for instance, and this eliminates hitches, thus making the transaction process to be simpler. Including options such as guest check out, multiple payment choices: credit cards, digital wallets, etc. are other measures that boost convenience and thus, ticking down the abandonment of the cart (Jones & Smith, 2017). CTAs (Calls to Action) are vital to encouraging the user to take further action such as making a purchase, subscribing to the newsletter or downloading an application Many a times, the CTAs are embedded on the page's layout in a clear, simple and differentiating manner (Kim, 2019). They have to be easily noticeable on the page and to be placed in the best areas for users, to interact with. Many CTAs use phrases such as "limited time offer" or "only a few items in stock" can nudge users into making a decision quicker, hence making the conversion more likely to happen.

Calling to action headings like "Get Started Now" or "Claim Your Discount" pushes the user to make a move at the moment (Brown, 2020). One social proof is in the form of Testimonials, reviews, and ratings have a quite importance role to play while taking the final decision regarding the buy. When potential customers want to make some purchase, they tend to check some recommendations, rating or any

testimonial that is displayed by the brand to achieve some kind of social proof (Cialdini, 2009). This is the reason why appealing case histories, successful examples, and even customers' photos or short videos where they use the product are valuable for the brand, and tempt other users to do the same. The use of social proof in or on product pages, advertisements, or on the landing page can change users' perceptions and enhance their chances of converting (Lewis, 2021).

Landing pages are incredibly useful in enhancing the overall conversion process. It should be designed so as to narrow the attention of the viewer to a particular offer or a call to action. Some of the components within a landing page include headline, related content, and call to action calls and the appearance of the website (Bly, 2017). The design should be harmonically correlated with the ad or the campaign that led the user to the given page. Landing page elements, like headlines, calls to action, and images, can vary, and A/B testing the variation results in a shorter amount of time than traditional tests. This makes it possible for businesses to implement an iterative process by improving the landing page thus increasing the rate of conversion (Kramer & Beck, 2020). Retargeting is the process of advertising to audiences that have shown past interest in your website but did not convert via conversion goals such as sales or sign ups. Using cookies on these users allow businesses to display advertising contents whenever they are using other sites or social media platforms recalling their previous interaction (Barker, 2018). There are also emails sent to users based on the behavior – using abandoned cart reminders or follow-ups on a product view, retargeting, proven to get users back to the point of purchase (Pereira & Turner, 2021). Developing promos such as discounted prices, shipment on the products, or use of coupons can make clients buy products. Pump-up offers such as specialized flash-sales, subscribe and save options can also increase the conversion rates by offering perceived added value (Sharma & Yadav, 2020). Offers must be placed on the product page or on the landing page to attract the user's attention, businesses can use countdown timers (Bhatnagar, 2021). Many companies use personalized experience, obvious and straightforward design, strong call to actions and social proofing to convert people optimally. Through ongoing experimenting and assessing of these approaches, it is possible for firms to build an unbroken user funnel that not only brings in new customers, but also turns them into repeat customers (Gates, 2022).

#### **Impact of Different Kinds of Content Formats on Customer Engagement**

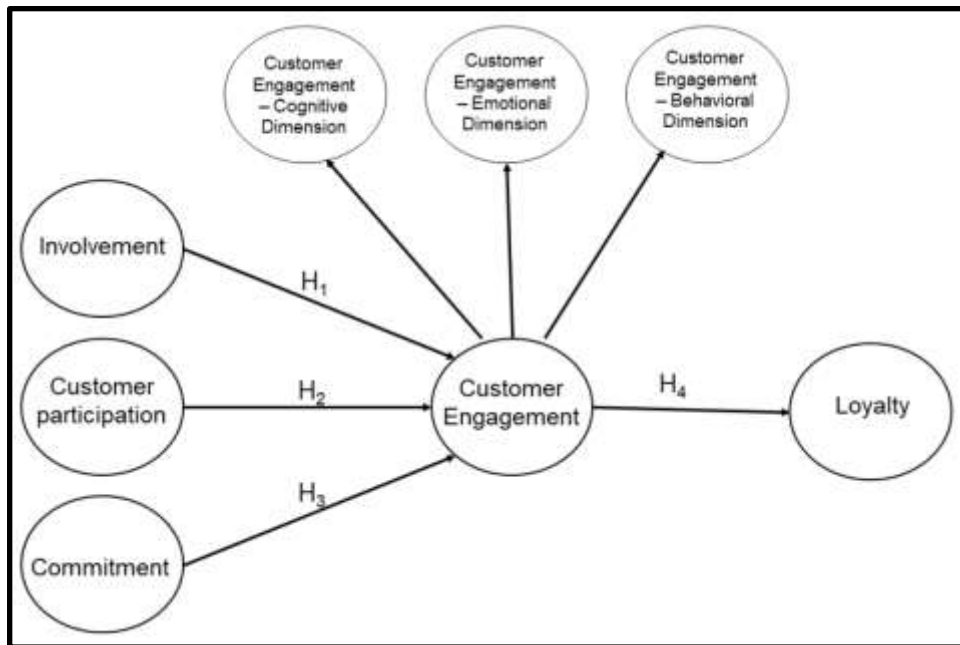
Higher customer engagement rate proves highly important for any business who aims at improving the bond between them and potential buyers as well as transform such prospects into customers. With different strategies and methods of content formats, businesses can improve this engagement rate. Depending on the chosen content format, it is possible to state that correctly chosen and used methods make it possible to step up the degree of business interaction with the audience (Barker, 2018). This method is one of the most successful strategies if used in the advanced era of the digital world namely blogging. Blogs are an opportunity to provide depth and relevance for business, offering readers company-specific products that offer extensive information and analysis, as well as numerous tutorials that help the audience gain an understanding of a specific topic or product (Bhatnagar, 2021). The management of a business can use blogs as a way of proving thought leadership and provide content that speaks to the customer's challenges, issues, or inquiries. A good form of writing such as blogging can develop trust, frequency, and brand attraction. By providing relevant and updated information to the readers by means of an insightful blog, the users would be able to relate and become a natural traffic to any business (Gates, 2022). The second approach to assess and enhance the customer engagement is, thereby the engagement matrix construction. Businesses use this tool to determine the average levels of engagement in a number of ways, including the number of shares, comments, likes, and the total interactions with the contents shared like videos, blog entries, or product descriptions. An engagement matrix provides a useful way for businesses to identify which types of content attract the most engagement thus giving an insight on what needs to be done more of what is not so effective and therefore can be done better. Collecting engagement levels in such a way can help businesses to adjust their content approach to cover only those formats that are most closely associated with active user interplay, which subsequently will enhance total customer engagement (Smith, 2020). Videos prove to be valuable for increasing customers' interest or using specific video styles on a business's official website.

Number two, is to note that often, videos facilitate transmission of further developed ideas or concepts in less time. It mainly talks about the efficiency of videos as a mean to emotionally engage viewers and help them to comprehend what is on offer (Pereira & Turner, 2021). In addition, hosting videos on a website means that there is potential to have more watch time an important parameter of audience engagement. When customer watch more videos this not only increases engagement, but it also portrays a sign of a higher level of transparency. Transparency helps to establish confidence, and once customers get a feeling that a particular business is frank in whatever it offers and does, then there are higher chances that clients will go a notch higher and buy. Educational how-to videos as well as customer feedback and company vignettes can greatly improve the user experience and ultimately lead to purchase.

#### **Effective digital marketing challenge for the increment of customer engagement rate**

It should be noted that the usage of digital marketing platforms provides many opportunities to improve the activity in terms of customer interaction, but it has many problems which have to be solved. The first major issue is the problem of defining the right audience to segment. This challenge forms the basic problem area that many organizations face as they operate within the ever-widening digital landscape. This is because, often, companies may spend a lot of money in the digital marketing channels without knowing the appropriate audience to market to and often end up marketing to individuals who will not convert and therefore get incredibly low engagement rates and low returns on investment. To handle this issue, there is a need for systematic and comprehensive study and development of the profile of the target audience. Target market description in detail enables firms to classify consumers according to criteria that include demography, interest, behavior, and psychological characteristics (Bag et al., 2022). For example, information regarding age, gender, geographical regions and income level helps the business to determine which category of people is likely to react positively to specific products or services. However, this segmentation lets even target the interested and behaving clients separately for a perfect timing of the necessary marketing message. Knowledge about the audience ensures the creation of content based on the specific desire and drive of the groups, which have been defined by the businesses.

User behaviour analysis is an important component in this process. Through tracking the user's navigation pattern, click through rate, the amount of time spent on a particular web page and engagement rate business gets to understand the actions and interests of the users. Such information may help to find out which kind of content should be used to attract more customers, which channels are effective to engage with customers, and what aspects of the customer journey are underserved. Also, through active tracking of the user activity, further action can be taken instantly to enhance the user experience, and, therefore, the content reflected as per the trends and preferences. Besides improving the level of interest, this approach also improves the process of making decisions, which in turn implies higher conversion rates. Therefore, definition of the right target market is crucial for the realization of digital marketing strategies. When backed up with an accurate audience analysis and good user behavioral analysis, it is possible for businesses to target the right audience with the right content. When done right, it means that the customer is happy, the end-users are having good experiences, and this will in turn help to bring more attention and more clicks or sales.



**Figure 2: The process of measurement of the customer engagement in the social media**  
(Source: Reddy & Nalla, 2024)

From the above figure, it is clear that customer engagement can be improved by focusing on mainly three which are the cognitive, emotional, and behavioral dimensions. With the help of this dimensional approach, the environment and customer commitment can be increased by increasing the loyalty of a business (Kedi et al., 2024).

## METHODOLOGY

In the study, the use of the primary quantitative method of data collection became helpful in getting the data and information about user behavior on the different kinds of digital platforms. The process of random sampling has been applied to select the data and 100 people from different designations of a business have been selected as the respondents of the study (Taherdoost, 2021). The Google form is the mode of collection of the used data and the information has been analysed with the help of SPSS analytical tool. In the analytical process, the demographic factor, descriptive, factor analysis, reliability test, and hypothesis testing make the result of the study more impactful for the objective of the study. In this whole process, privacy and ethical considerations have been maintained for the selected candidate and this makes the study more reliable.

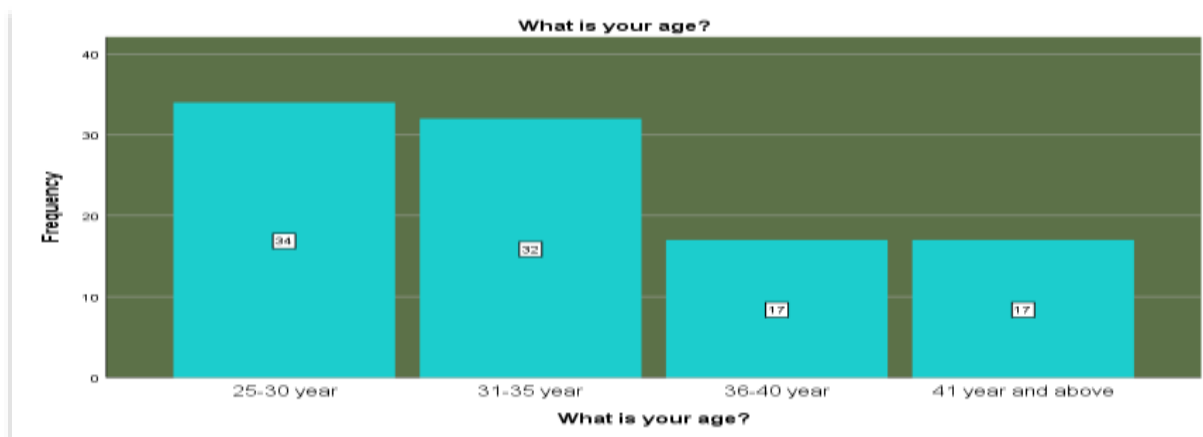
### Analysis

#### Demographic analysis

##### Age

What is your age?					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	25-30 year	34	34.0	34.0	34.0
	31-35 year	32	32.0	32.0	66.0
	36-40 year	17	17.0	17.0	83.0
	41 year and above	17	17.0	17.0	100.0
	Total	100	100.0	100.0	

**Table 1: Age distribution**  
(Source: SPSS)



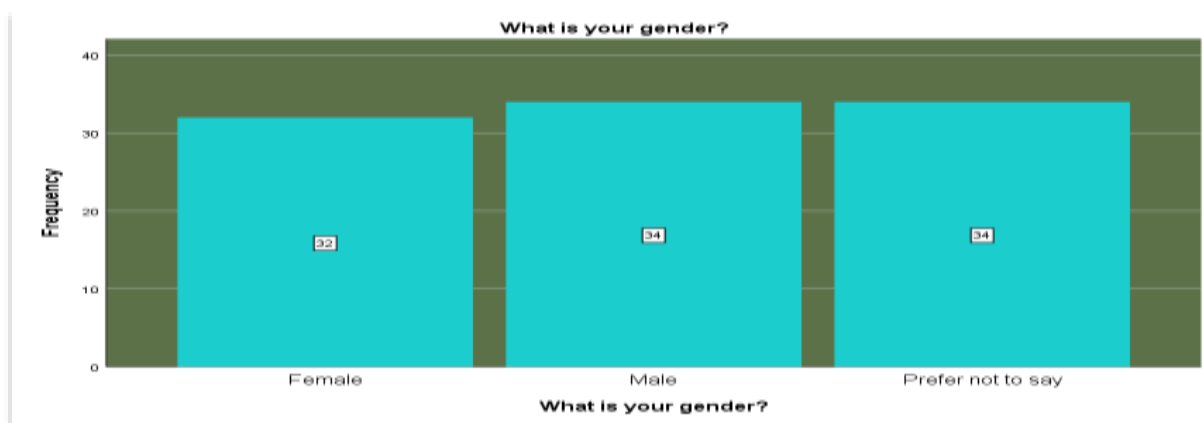
**Figure 3: Age distribution**  
(Source: SPSS)

The above age distribution bar graph and the table show that the highest number of participants in the survey are with the age where is from 25 to 30 years. The cumulative percentage of the preparation formed 25 to 30 years is 34% where the frequency of the people is 32. The cumulative percentage of people aged 36 to 40 years is 83% which is the lowest percentage among all participants in the survey.

#### Gender

What is your gender?					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Female	32	32.0	32.0	32.0
	Male	34	34.0	34.0	66.0
	Prefer not to say	34	34.0	34.0	100.0
	Total	100	100.0	100.0	

**Table 2: Gender distribution**  
(Source: SPSS)



**Figure 4: Gender distribution**

(Source: SPSS)

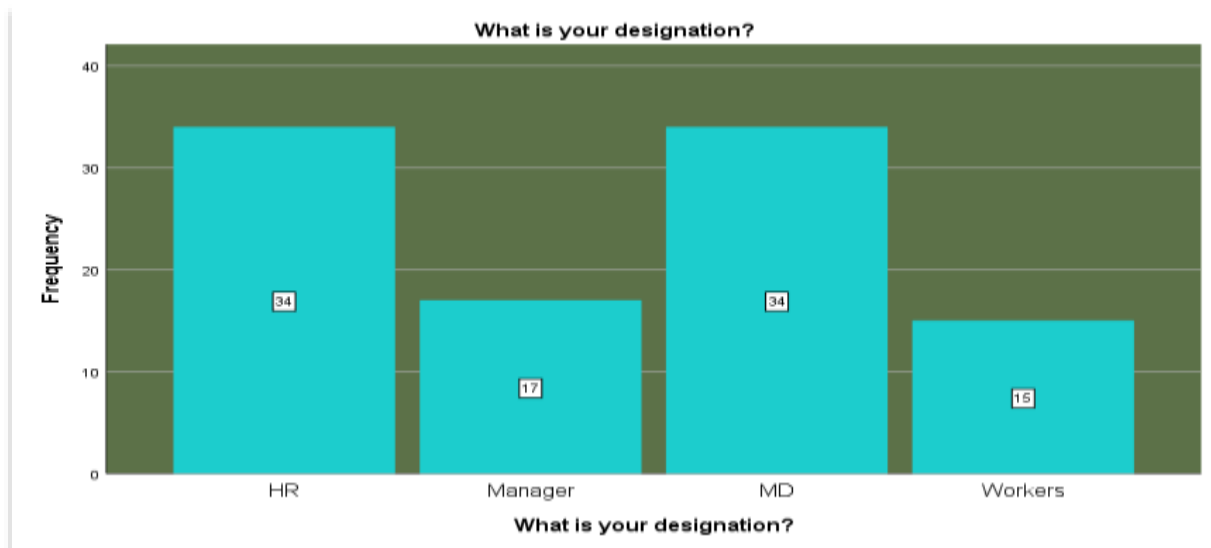
Table 2 indicates the gender distribution of the participants from where it can be clearly said that the highest distribution is the males who do not want to say their gender participants and the percentage is 34%. The frequency of female participants is also 32 and the cumulative percentage of female is 32%.

#### Designation

What is your designation?					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	HR	34	34.0	34.0	34.0
	Manager	17	17.0	17.0	51.0
	MD	34	34.0	34.0	85.0
	Workers	15	15.0	15.0	100.0
	Total	100	100.0	100.0	

**Table 3: Designation distribution**

(Source: SPSS)



**Figure 5: Qualification distribution**

(Source: SPSS)

From the above table and Figure, it can be concluded that the people who are participants in the survey have different designations in the business like MD, HR, Manager, and Workers. The highest frequency of the respondents is HR and MD of any of the companies and the frequency is 34 and the valid percentage of the people is 34%. The valid percentage of the people who are managers and participated in the survey is 17%. The people with the post of the workers at the lowest participants and the frequency of the response are 15.

#### Descriptive analysis

Descriptive Statistics									
	N Statistic	Minimum Statistic	Maximum Statistic	Mean Statistic	Std. Deviation Statistic	Skewness		Kurtosis	
						Statistic	Std. Error	Statistic	Std. Error
DV_ marketing strategies	100	1	4	2.88	1.163	-.628	.241	-1.159	.478
IV2.1_email campaigns	100	3	5	4.34	.755	-.658	.241	-.950	.478
IV2.2_capacity of the workers	100	3	5	4.17	.697	-.244	.241	-.910	.478
IV3.2_purchasing decisions	100	1	5	3.13	1.461	.067	.241	-1.282	.478
IV4.2_customer's buying decision	100	2	5	4.21	1.038	-1.265	.241	.404	.478
IV4.3_Digital shopping	100	1	5	3.15	1.359	-.278	.241	-1.176	.478
Valid N (listwise)	100								

**Figure 6: Descriptive analysis**

(Source: SPSS)

The above formation of the study presents the descriptive analysis between the dependent variable or DV and the independent variables or IVs of the study. From the above table of descriptive statistics, it can be concluded that the value of skewness statistics for IV4.2 is the lowest among the other and the value is -1.265. The lowest skewness value indicates the least asymmetrical distribution of the decision of the customer buying techniques for the improvement of the marketing strategies in an organization. By locating the table of the descriptive statistics, the positive and negative considerations between the IVs and DV of a study can be estimated (Skevington & WHOQOL SRPB Group, 2020). The value of core process statistics for IV2.1 is -0.658 which refers to the negative impacts of the capacity of the workers to the growth of a business.

#### Factor analysis

KMO and Bartlett's Test		
Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.500
Bartlett's Test of Sphericity	Approx. Chi-Square	120.800
	df	1
	Sig.	.000

**Figure 7: Factor analysis**

(Source: SPSS)

The section of the underlying research of investigation can be properly executed from the table of the KMO and Bartlett's test or the factor analysis. From the above figure of factor analysis, it is clear that the approximate value of Chi-square is 120.80, from which it can be concluded that this value indicates a positive and effective relation and dependence of the sales revenue of a business for the execution of the digital marketing process.

#### Reliability test

Reliability Statistics		
Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	N of Items
.231	.033	7

**Figure 8: Reliability test**

(Source: SPSS)



The above reliability tests of the IVs and DV of the study give the value of Cronbach's alpha of the study as 0.231 the value of the standardized items is 0.033. The positive value shows the high inner connection of the DV and the IVs of the study. The frequency of the total items taken for the examination is 7 for the analysis. The above value indicates the impact of sweetening the behavior of digital media for the improvement of the conversion rate of a business.

### Hypotheses Testing

Hypothesis 1: There is a strong relationship between the marketing strategies and the buying decisions of the customers of a business.

Model Summary <sup>b</sup>										
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	R Square Change	F Change	df1	df2	Sig. F Change	Durbin-Watson
1	.079 <sup>a</sup>	.006	-.004	1.166	.006	.613	1	98	.436	2.833
a. Predictors: (Constant), IV3.2_purchasing decisions										
b. Dependent Variable: DV_ marketing strategies										

ANOVA <sup>a</sup>					
Model		Sum of Squares	df	Mean Square	Sig.
1	Regression	.832	1	.832	.613
	Residual	133.128	98	1.358	.436 <sup>b</sup>
	Total	133.960	99		

a. Dependent Variable: DV\_ marketing strategies  
b. Predictors: (Constant), IV3.2\_purchasing decisions

Coefficients <sup>a</sup>					
Model		Unstandardized Coefficients		Standardized Coefficients	
		B	Std. Error	Beta	t
1	(Constant)	2.784	.277		10.060
	IV3.2_purchasing decisions	.063	.080	.079	.783

a. Dependent Variable: DV\_ marketing strategies

Figure 9: Hypothesis testing 1

(Source: SPSS)

From the above ANOVA chart of the table of the first hypothesis, the regression value of the sum of squares for IV3.2 and DV is 0.832. The regression value of IV3.2 for DV is low, which means a low dependency on the process of the purchasing decision on the buying behavior of the consumers. The resolution of the value of the sum of squares in SPSS analysis helps to anticipate the split value from a study's observed value (Ndu, 2024).

Hypothesis 2: There is a connection between the improvement of the marketing strategies with the buying decisions of the customers

Model Summary <sup>b</sup>										
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	R Square Change	F Change	df1	df2	Sig. F Change	Durbin-Watson
1	.532 <sup>a</sup>	.283	.276	.990	.283	38.701	1	98	.000	2.769
a. Predictors: (Constant), IV4.2_customer's buying decision										
b. Dependent Variable: DV_ marketing strategies										

ANOVA <sup>a</sup>					
Model		Sum of Squares	df	Mean Square	Sig.
1	Regression	37.925	1	37.925	.000 <sup>b</sup>
	Residual	96.035	98	.980	
	Total	133.960	99		

a. Dependent Variable: DV\_ marketing strategies  
b. Predictors: (Constant), IV4.2\_customer's buying decision

Coefficients <sup>a</sup>					
Model		Unstandardized Coefficients		Standardized Coefficients	
		B	Std. Error	Beta	t
1	(Constant)	5.491	.416		13.212
	IV4.2_customer's buying decision	-.598	.096	-.532	-6.221

a. Dependent Variable: DV\_ marketing strategies

Figure 10: Hypothesis testing 2

(Source: SPSS)

From the above Figure 10 of the second hypothesis, it can be described that the residual value of the sum of squares for IV4.2 and the DV of the study is 96.035. This value guides the high dependency on marketing strategies on the customer buying decision in a business. Also, the standard error from the coefficient table for positive culture in a business is 0.096, which is less than the value of 0.5. This low standard error value indicates the DV's less dependence on the IV4.2.

## DISCUSSION

In recent digital landscape the proper understanding of the customer behaviour to make a business growth and successful is one of the most important factor. By the decision exploring key, the achievement of high conversion rate can also been done which make an effective marketing optimization by the proper implementation of digital technology in the marketing strategies (Purnomo, 2023). The analysis of user behaviour like the tracking interpretation of data with the help of digital platform increase understanding level of him business and helps to fulfill the actual needs and demand of the customers. From the above studied can be clearly indicate that the use of different kind of analytical method like A/B testing, the wave analytical tools provide some good analytics a process to maintain them state of a business (Daoud et al., 2023). From the spaces analysis it can be clearly concluded that the term customer buying decision made as strong impact on the changing for marketing strategy and the sum of squares for the recursion value is 37.925 in the first hypothesis testing. In the study, the discussion of a proper strategies for measurement of customer engagement like the cognitive dimension and emotional dimension indicates the importance of better methods in an workplace.

## CONCLUSION

Evaluating user interactions on digital spaces is one of the effective approaches to marketing that organizations need when they strive to enhance their conversion rates. Analyzing how users behave whether through clicks or the way they move within the site, or in terms of engagement with videos and blog posts—can inform preferences, goals, and challenges. This way, companies are able to make changes to their marketing strategies, content and timing so that the right content gets to the right audience at the right time. By means of personalization, businesses seek to provide content that will likely be of interest to the users. Personalizing marketing campaigns to certain consumer segments as per demographics, behavioural and psychographic information not only leads to better consumer engagement but there is also a high chance of them completing the chosen call to action. In addition, the analysis of users' behavior contributes to the understanding of the potential for problems in the purchase process, e.g., buttons for the restoration of abandoned orders on the site or high rates of abandoning pages, since targeted business actions that contribute to the improvement of the cycle and lead to its seamless contribute to smoother conversions. Moreover, combining different content types, including individualized blog entries, videos, infographics, and other carefully targeted social media advertising also increases the effectiveness of how the content is delivered to the customers. These formats if affined through periodic optimization make a striking progress through augmented interactions rates and enhanced overall experience quality. Using such information, businesses can also further optimise call to action and retargeting strategies to follow up customers who were not initially convinced. Enriching user behaviour analytics is constant and an ongoing process across businesses as they seek to ride on trends, create better customer experience, and improve conversion rates. Based on the data analysis, companies can establish long-term relationships with their clientele and generate high revenues within a constantly growing digital environment.

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