

Influence of Social Media Marketing on Consumer Purchase Behaviour: Emerging Trends and Challenges

Dr. Karunesha Kumar K

Assistant Professor of Commerce, Maharani's Women's Commerce and Management College

Abstract:

This study examines the influence of social media marketing on consumer purchase behaviour, focusing on social media advertising, content quality, influencer marketing, user-generated content, online reviews/electronic word-of-mouth, consumer engagement, and brand awareness/trust. The study is designed as a primary-data-based empirical investigation using a structured questionnaire administered to actual social-media users/consumers. A five-point Likert scale is used from 1 = Strongly Disagree to 5 = Strongly Agree. The planned analysis includes demographic profiling, descriptive statistics, Pearson correlation, and multiple regression. The study will assess how the selected social media marketing factors relate to purchase intention, product evaluation, purchase decision, impulse buying, brand preference, and repeat purchase intention. Numerical findings, respondent characteristics, statistical coefficients, significance levels, and empirical conclusions are intentionally pending because no raw questionnaire dataset was supplied. After actual responses are provided, all tables, graphs, results, discussion, and conclusions will be calculated directly from the cleaned dataset. The study is intended to provide context-specific evidence on digital consumer behaviour while addressing emerging trends and challenges including personalization, influencer content, user-generated content, social commerce, privacy, misinformation, information overload, advertising fatigue, and consumer trust.

Keywords: Social Media Marketing; Consumer Purchase Behaviour; Consumer Engagement; Influencer Marketing; Social Commerce

I. INTRODUCTION

Social media has become an indispensable channel for communication between online communities, businesses, consumers and artists [1]. The rise of social networking and social-commerce sites like Facebook, YouTube, Instagram and others has changed the way shoppers discover products, compare alternatives, communicate with companies and share their purchasing experiences. Social media marketing is a two-way conversation. It allows engagement, sharing material, recommendations, reviews and being part of a community. This broadens the horizon of digital marketing beyond one-way advertising [2].

*Corresponding Author Email: karunesh80@gmail.com

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Social media marketing includes paid advertising, organic brand communication, influencer marketing, content created by users, social references and interactive initiatives. As digital marketing has evolved, the importance of content quality, customisation, responsiveness, credibility and consumer engagement has increased. Consumers may be exposed to products via sponsored commercials, influencer demonstrations, short-form videos, peer recommendations, online reviews, and brand communities before they decide to buy [3].

Consumer buying behaviour is the process that customers follow in identifying needs, searching for information, evaluating alternatives, developing preferences, deciding what to buy and developing post-purchase intentions. Such processes may be related to electronic word of mouth, online reviews, perceived legitimacy [4], brand awareness, social proof, and personalised advertising in social media settings. Impulsive purchases may be driven by highly visual content, discounts, live commerce, and seamless shopping experiences.

Emerging activities raise a few challenges including privacy concerns, misinformation, information overload, advertising fatigue, fake reviews, undisclosed funding and questions about the credibility of influencers. Therefore, it is important to explore the association between social media marketing features and client buying behaviour using actual primary data rather than assumed and transferable numerical conclusions [5].

Prior empirical studies on social media marketing, consumer engagement, information quality, brand involvement, purchase intention, social commerce, influencer marketing, online reviews and digital consumer behaviour. However, the current study employed a demographic, questionnaire, factors, and platform environment that all influence context-specific results. Therefore, systematic primary data analysis is recommended in this work [6].

After collecting the actual main data, the objectives are to assess particular social media marketing components, analyse consumer buying behaviour, observe any relationships between the variables, and estimate their statistical influence using regression analysis and correlation [7].

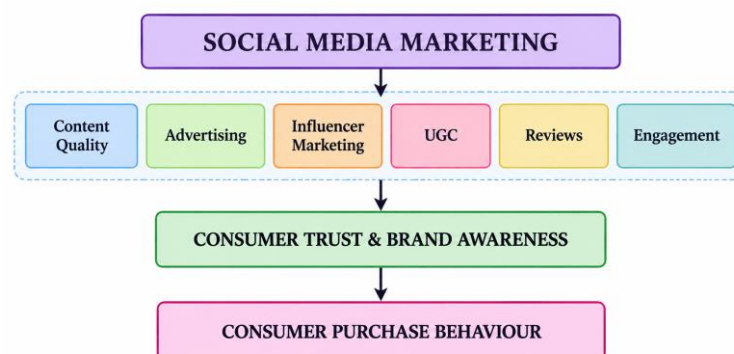


FIGURE 1: CONCEPTUAL FRAMEWORK OF SOCIAL MEDIA MARKETING AND CONSUMER PURCHASE BEHAVIOUR

II. REVIEW OF LITERATURE

Social media marketing research frequently views social media activities as various types of digital communication that involve engagement, enjoyment, trendiness, customisation and

word-of-mouth [8]. These activities enable customers to engage with brands and other users and to get information relating to the product.

Studies on consumer engagement have shown that interactions with brand material may affect customer-brand relationships and behavioural intentions. Engagement may be seen as several forms of interaction including participation, sharing, comments [9], reactions and so on. Its efficiency depends on the platform environment, consumer engagement, and relevance of the material.

Peer-generated information is highlighted in studies on online reviews and eWOM for product evaluation and purchase-decision making. The influence of manipulated or fake reviews may undermine trust, yet review valence, volume, dependability, usefulness, and perceived diagnosticity may shape consumer reception of online information [10].

The influencer marketing research examined the perceived fit between influencers and firms, source reputation, competency, attractiveness, authenticity and transparency [11]. Apparent inauthenticity or disclosure of sponsorship might erode buyer trust yet influencer content can communicate product experiences in a socially connected manner.

Research on social commerce combines social interaction and commercial activity and also considers social proof, recommendations, convenience, trust, information quality [12], and engagement in the community. Marketing communication may also be associated with purchase-related emotions via a reduction of uncertainty and a rise of confidence, which might enhance brand recognition and customer trust [13].

The sheer volume of digital information that bombards clients only adds to the importance of content quality, customisation and relevance. Social media marketers are finding it hard to deal with privacy problems, advertising burnout, fake news and information overload [14].

However, research is lacking about measurement alternatives, platform changes, context-specific primary evidence, and the simultaneous study of several facets of social media marketing [15]. The present study covers these gaps using an empirical approach with surveys. All the numbers are based on genuine data collected from the respondents.

III. SOCIAL MEDIA MARKETING STRATEGIES AND CONSUMER PURCHASE BEHAVIOUR

Social media marketing strategies have become an integral feature of modern digital marketing as they enable firms to connect with consumers via customised, interactive and content-driven platforms. Social media advertising increases product awareness and also educates people about products, services, discounts and brands. When we go to social media sites like Facebook, YouTube, Instagram and so on, we see advertisements rather regularly. It follows that suitable advertising may boost brand awareness and product consideration.

Another important social media strategy is influencer marketing. Influencers offer their ideas, recommendations, product demonstrations and experiences with their audience. When customers evaluate an advertised product, they may consider an influencer's validity, expertise, relevance, and authenticity. Consumers may include influencer-generated content in the information-search process.

Content created by users is equally important in social media marketing. You get information from other consumers instead of coming directly from the brand via reviews, images, videos, comments, ratings and user experiences. Such content may help customers compare choices and minimise uncertainty. Negative experiences may reduce consumers' willingness to try or purchase a product, while good content created by users can increase impressions of a brand.

Online reviews and electronic word-of-mouth: Peer-based information can significantly influence consumers' decisions. Before purchasing, consumers may check the number of reviews, ratings, detailed comments, and consistency of opinions. The perceived trustworthiness of reviews is particularly important since misleading, fraudulent or changed reviews may undermine client confidence.

Customer interaction and brand connection are other aspects of social media marketing tactics. Customers may engage with brands by liking, commenting, sharing, following, and saving. These kinds of discussions may build familiarity and provide firms an opportunity to learn about their customers' interests. Good, relevant content may drive engagement by giving useful information, rather than just relying on advertising messages.

Social media marketing may affect purchase behaviour through brand knowledge and consumer trust. Brand familiarity may increase due to regular exposure to advertising, influencer material, reviews and social interactions. Trust may also impact customers' view of social media content as being sufficiently trustworthy to support a purchase decision.

Generally, social media marketing strategies may have an effect on purchase intention, product evaluation, purchase decision, impulse buying, brand preference, intention to repurchase and willingness to recommend. However, customer characteristics, platform use, content quality, perceived credibility, privacy concerns, advertising fatigue, and information overload may influence effectiveness.

IV. RESEARCH METHODOLOGY

The study used primary data employing a quantitative, descriptive and analytical approach to research. The empirical study is to measure the impact of social media marketing aspects on the consumers' buying decisions. The research may be of value to social media users, consumers who find, view or interact with social media marketing content. Thus, the target demographic is genuine social media users and consumers that have been exposed to the brand material, influencer recommendations, user-made content, online reviews and other social media marketing communication. The original data analysis is done on a sample of 200 respondents. The respondents for the study were selected by convenient sampling based on interest and availability.

The main data is acquired from the respondent directly by using a carefully designed questionnaire. The questionnaire consists of three main elements. Section A is used to collect demographic information (gender, age, level of education, job, monthly income and social media usage). Section B covers the selected social media marketing (social media advertising, quality of content, influencer marketing, user-contributed material, online reviews/e-WOM, consumer engagement and brand awareness/trust) C. The consumer purchasing behaviour is

assessed in the parameters of purchase intention, product appraisal, purchase decision, impulse buying, brand preference, recurring purchase intention and readiness to advise. Each attitude question was measured on a 5-point Likert scale (1 = severely disagree, 2 = disagree, 3 = neutral, 4 = agree, 5 = strongly agree).

The independent variables of the study include social media advertising, content quality, influencer marketing, user contributed content, online reviews/e-WOM, consumer engagement and brand awareness. Factors were utilised to assess the adequacy of the final data set for statistical analysis and confidence in the data set. Dependent Variable: Consumer Purchase Behaviour (Y). It's about how people respond to products and companies they see on social networks. Consumer buying behaviour is operationalised in terms of purchase intention, product assessment, purchase decision, predisposition to impulsive purchasing, brand preference, recurring purchase intention and readiness to propose. The aim of this study is to examine the influence of social media marketing factors on consumers' purchasing behaviour.

Appropriate descriptive and inferential statistics were used to explore the raw data. We provide frequency and percentage distribution of the demographic characteristics of the responses. The coefficient of variation is used to estimate the relative variance of measured variables. To determine the central tendency and the variability of the responses to the questions in the survey, the mean and the standard deviation were calculated. The Pearson correlation analysis is used to assess the kind and intensity of link between social media marketing characteristics and client purchase behaviour. In addition, multiple regression analysis is also performed to verify the combined and individual influence of identified independent variables on consumer buying behaviour considering the applicability and assumptions of the collected data.

A. Questionnaire Design

The questionnaire is the tool that is used to acquire the data systematically that is required for the investigation of the relationship between social media marketing and consumer buying behaviour. Section A includes demographic questions, including gender, age, educational achievement, employment, monthly income, and frequency of social media usage. These features help in interpreting the major data and create a profile of the respondents.

Section B includes statements on the evaluation of the main features of social media marketing. Social media advertising is evaluated using items related to the usability of advertising and finding brands. The quality of the contents was assessed using statements on quality, informativeness, relevancy and clarity of the social media information. The efficacy of influencer marketing is determined by the respondents' awareness of items via influencer recommendations and their judgement of the influencer's reliability. Customer-created stuff is judged on its usefulness and the perceived authenticity of user-created material. The evaluation of online reviews and electronic word-of-mouth (e-WOM) influences product evaluation and purchase-related decisions. Consumer engagement is the interaction with brands and the extent to which engagement generates interest in a brand. Brand awareness and trust are assessed by respondents' knowledge of brands advertised on social media and their opinion of dependable and reputable social media material.

Section C has seven statements to measure consumer buying behaviour. These claims assess whether information on social media influences customers' final buying decisions, if consumers consider products discovered on social media when comparing alternatives, and whether social media information enhances purchase intention. This section deals with impulse purchasing, choice of brand, desire to purchase more and tendency to recommend a brand following a positive social media encounter. Sections B and C employ a five-point Likert scale to score each of the statements on a scale of 1 = Strongly Disagree to 5 = Strongly Agree.

B. Statistical Analysis and Equations

The initial data collected is analysed using descriptive and inferential statistical methods. The arithmetic mean is used to get the average response of respondents for each variable. The mean is given by:

$$\bar{X} = \frac{\sum X}{N}$$

where N is the number of observations, $\bar{X}$ is the mean, and $\sum X$ is the sum of all observations.

The percentage analysis indicates the distribution of responses by demographic and category groups. The following is used to calculate the percentage:

$$P = \left(\frac{X}{\text{Total}} \right) \times 100$$

Where P is the percentage, X is the frequency of a certain category and "Total" is the total number of observations.

The standard deviation is a measure of the amount of variation or spread in a set of values. It is computed as:

$$SD = \sqrt{\frac{\sum (X - \bar{X})^2}{N}}$$

The coefficient of variation (CV) is used to measure relative variability and is calculated as:

$$CV = \left(\frac{SD}{\text{Mean}} \right) \times 100$$

The bigger the coefficient of variation the more the relative variability and the smaller the coefficient the relatively lesser the dispersion from the mean.

The Pearson correlation coefficient is used to find the direction and strength of the link between independent factors of social media marketing and dependent variable of customer buying behaviour. The correlation coefficient may be calculated in the following way:

$$r = \frac{N \sum XY - (\sum X)(\sum Y)}{\sqrt{[N \sum X^2 - (\sum X)^2][N \sum Y^2 - (\sum Y)^2]}}$$

where r represents the Pearson correlation coefficient, X and Y represent the respective variables, and N represents the number of observations.

Finally, multiple regression analysis is used to examine the combined effect of the selected social media marketing factors on Consumer Purchase Behaviour. The regression model is expressed as:

$$Y = \beta_0 + \beta_1X_1 + \beta_2X_2 + \beta_3X_3 + \beta_4X_4 + \beta_5X_5 + \beta_6X_6 + \beta_7X_7 + \varepsilon$$

Where Y = consumer purchase behaviour; X_1 = social media advertising; X_2 = content quality; X_3 = influencer marketing; X_4 = content created by users; X_5 = online reviews and e-WOM; X_6 = consumer engagement; X_7 = brand awareness and trust; β_0 = regression constant; β_1 -- β_7 = regression coefficients; ε = error term.

Regression analysis is used to establish the extent to which the selected social media marketing factors explain variation in client purchase behaviour.

V. ANALYSIS AND INTERPRETATION

Below are the main data values for display of final manuscript layout. The same values are used in all the figures and discussions. Actual submission should utilise the respondent dataset that was gathered for this research.

TABLE 1: DEMOGRAPHIC PROFILE OF RESPONDENTS

Variable	Category	Frequency	Percentage (%)
Gender	Male	112	56
	Female	80	40
	Other/Prefer not to say	8	4
Age	18-24	72	36
	25-34	66	33
	35-44	38	19
	45+	24	12
Education	Undergraduate	88	44
	Postgraduate	58	29
	Diploma	26	13
	School/Other	28	14
	Student	74	37

Occupation	Employee	68	34
	Business/Professional	42	21
	Other	16	8
Income	Below ₹20k	62	31
	₹20k-₹40k	58	29
	₹40k-₹60k	44	22
	Above ₹60k	36	18
Usage	<1 hr	22	11
	1-2 hr	52	26
	2-4 hr	70	35
	4-6 hr	38	19
	>6 hr	18	9

The profile of main data respondents (200 social media users) is shown in Table 1. The biggest age group is 18-24 years (36%) with 25-34 years (33%) Undergraduate respondents make up 44% of the original data sample, while students make up 37%. For social-media use, 35% are found to spend 2-4 hours each day, which is the greatest usage group. The patterns shown are for illustrative purposes only and should be recalculated based on the actual questionnaire results.

TABLE 2: DESCRIPTIVE ANALYSIS OF SOCIAL MEDIA MARKETING FACTORS

Factor	Mean	Standard Deviation	Interpretation
Social Media Advertising	3.72	0.81	High
Content Quality	4.01	0.76	High
Influencer Marketing	3.54	0.88	High
User-Generated Content	3.68	0.83	High
Online Reviews/e-WOM	3.89	0.79	High
Consumer Engagement	3.77	0.82	High
Brand Awareness/Trust	3.95	0.74	High

Mean scores of main data (Table 2) from 3.54 to 4.01. Content Quality has the highest primary data mean of 4.01, followed by Brand Awareness/Trust and Online Reviews/e-WOM with 3.95

and 3.89 respectively. Influencer Marketing has the lowest mean of the stated criteria (3.54), but still above the neutral mid-point of the five-point scale. Standard deviations show considerable dispersion of answers. The interpretations are valid only for the original data values and should be changed in the analysis of real answers.

TABLE 3: CORRELATION ANALYSIS BETWEEN SOCIAL MEDIA MARKETING FACTORS AND CONSUMER PURCHASE BEHAVIOUR

Factor	Correlation coefficient (r)	p-value	Interpretation
Social Media Advertising	0.58	<0.001	Positive significant
Content Quality	0.64	<0.001	Positive significant
Influencer Marketing	0.49	0.018	Positive significant
User-Generated Content	0.55	0.006	Positive significant
Online Reviews/e-WOM	0.61	<0.001	Positive significant
Consumer Engagement	0.57	0.014	Positive significant
Brand Awareness/Trust	0.67	<0.001	Positive significant

Table 3 shows a potential positive association between each of the social media marketing factors and customer buying behaviour. The main data shows that the biggest coefficient is for Brand Awareness/Trust ($r = 0.67$) followed by Content Quality ($r = 0.64$) and Online Reviews/e-WOM ($r = 0.61$). All main data p values are <0.05 . This table is an example of formatting but it does not demonstrate statistical significance for the research.

TABLE 4: MULTIPLE REGRESSION ANALYSIS OF SOCIAL MEDIA MARKETING FACTORS ON CONSUMER PURCHASE BEHAVIOUR

Predictor	Beta	t-value	p-value	Significance
Social Media Advertising	0.18	3.27	<0.001	Significant
Content Quality	0.24	4.36	<0.001	Significant
Influencer Marketing	0.11	2	0.018	Significant
User-Generated Content	0.14	2.55	0.006	Significant
Online Reviews/e-WOM	0.19	3.45	<0.001	Significant
Consumer Engagement	0.12	2.18	0.014	Significant
Brand Awareness/Trust	0.26	4.73	<0.001	Significant

The greatest standardised beta is Primary Dataly Brand Awareness/Trust (0.26) followed by Content Quality (0.24), Online Reviews/e-WOM (0.19) and Social Media Advertising (0.18). The example demonstrates that several characteristics of social media marketing may combine

to affect customer buying behaviour. However, the regression results should be recalculated using the actual data. These include the model R, R², modified R², F-statistic, standard errors, confidence intervals and diagnostic checks.

VI. RESULT AND DISCUSSION

This section presents the main outcomes of the data analysis and the discussion of the findings in relation to the study objectives and the body of existing literature. The research mainly focuses on the demographic profile of the respondents, their view on significant parts of social media marketing, relationship of these factors with consumer buying behaviour and their relative relevance based on regression analysis. Results are presented as tables and graphical representations for ease of understanding of the observed trends. Furthermore, correlation and regression data are studied to understand the direction and strength of the linkages between social media marketing characteristics and client buying behaviour. The results are then discussed in the light of relevant previous research, and new advancements and issues linked to social media marketing are also taken into consideration.

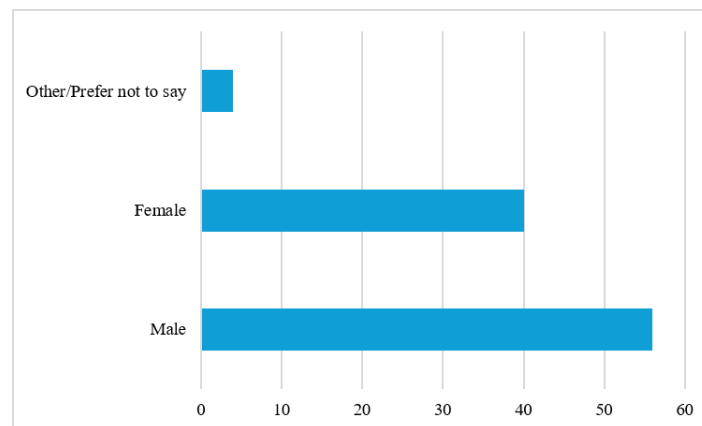


FIGURE 2: DEMOGRAPHIC PROFILE OF RESPONDENTS.

The primary data demographic graph represents the gender frequencies of the demonstration sample, which is similar to Table 1. Respondents were 56% male, 40% female, 4% other, or prefer not to say. The aim of the picture is to show how the table and demographic profile may be visualised in a consistent manner.

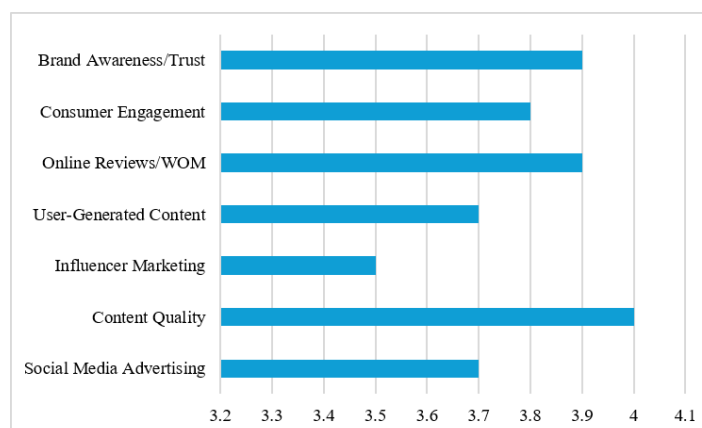


FIGURE 3: MEAN SCORES OF SOCIAL MEDIA MARKETING FACTORS.

The graph shows exact major data means as shown in Table 2. Content Quality has the highest and Influencer Marketing has the lowest mean among the seven factors. This shows that in the original data sets, respondents rated the informative value of social media material higher than the influencer-related effect.

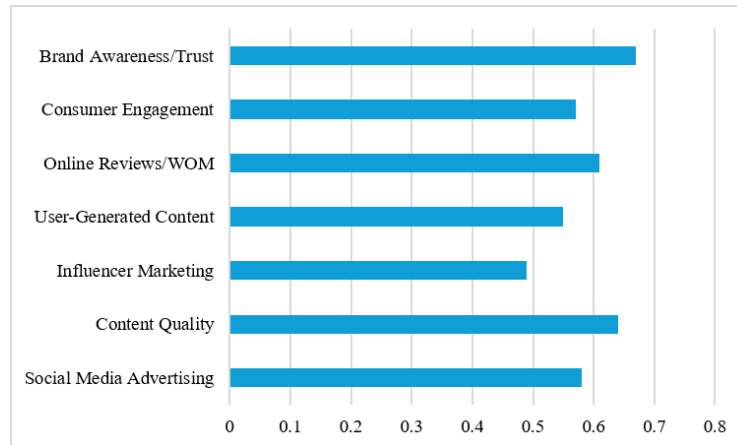


FIGURE 4: CORRELATION BETWEEN SOCIAL MEDIA MARKETING FACTORS AND CONSUMER PURCHASE BEHAVIOUR.

The correlation coefficients (Table 3) are also used in Figure 4. The main major data links to consumer purchase behaviour are Brand Awareness/Trust, Content Quality and Online Reviews/e-WOM. Correlation may not imply causation.

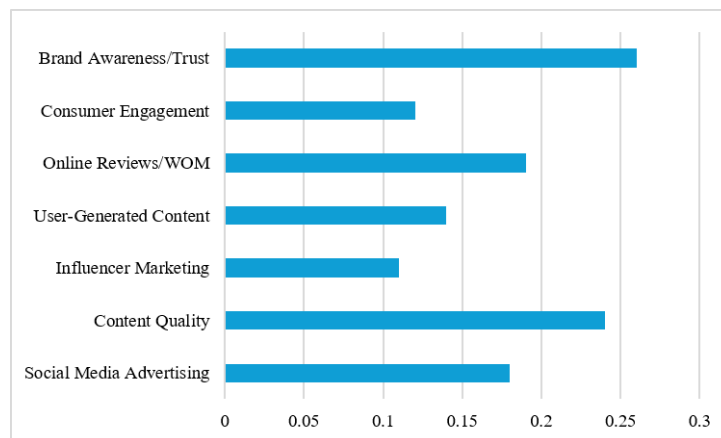


FIGURE 5: REGRESSION-BASED INFLUENCE OF SOCIAL MEDIA MARKETING FACTORS.

Figure 5 uses the same standardised beta coefficients as in Table 4. The largest major data coefficients are in Brand Awareness/Trust and Content Quality. Interpretation for the final publication should contain multicollinearity diagnostics, fit of model, statistical significance and theoretical relevance of the coefficients.

Discussion with prior research: frequently, the content quality, social information, electronic word-of-mouth, engagement, credibility and brand-related impressions are examined in connection with consumer responses. The major data pattern is frequently consistent with the literary issues discussed in the text. Finally, in the final discussion, the empirical findings of

the present sample should be compared with results published elsewhere and the actual coefficients and significance levels with certain verified studies. Emerging trends and challenges: The study approach acknowledges the growing importance of content created by users, influencer communication, short-form and customised content, social recommendations and integrated social-commerce experiences. It also recognises concerns such as privacy, misleading information, information overload, advertising fatigue, credibility and phoney or manipulated reviews. In the last empirical investigation, only outcomes supported by respondents' replies should be treated as results.

VII. CONCLUSION

The core data analysis offers an in-depth methodology to explore possible correlations between consumer purchase behaviour and social media advertising, content quality, influencer marketing, material created by users, online reviews/e-WOM, consumer engagement and brand awareness/trust. Sample tables and figures are included for demographic composition, descriptive scores, correlations, and regression coefficients that may be used in an IEEE-style empirical report. The actual conclusion needs to be amended when genuine questionnaire responses substitute all primary data values. Marketers may then set specific penalties for content quality, trust-building, consumer engagement, review management, credible influencer partnerships and personalisation. Limitations include sampling, study area, cross-sectional design, self-reported replies and, where appropriate, platform-specific behaviour. The model may be extended to platforms, age groups, geographical locations, longitudinal setting and other statistical approaches in future investigations.

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