

A Study on Evaluating the Impact of Social Media Analytics on Consumer Behaviour and Brand Loyalty

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Abstract

This study explores the impact of Social Media Analytics (SMA) on consumer behaviour and brand loyalty. The research aims to assess how businesses leverage SMA to track engagement, sentiment, and demographic trends, ultimately influencing consumer attitudes and purchasing decisions. A mixed-method approach, incorporating quantitative surveys and qualitative secondary data analysis, was employed to examine these relationships. Key findings indicate a strong positive correlation between effective SMA use and increased consumer engagement, trust, and brand advocacy. Study finds that SMA's influence remains consistent across different demographic groups. These insights underscore the strategic advantage of data-driven marketing, highlighting that brands utilizing SMA effectively can foster long-term consumer relationships and enhance retention. The study emphasizes the necessity for businesses to integrate SMA into digital marketing strategies to maintain a competitive edge in an evolving online marketplace.

Keywords: Social Media Analytics, Consumer Behaviour, Brand Loyalty, Digital Marketing

Introduction

Social media platforms generate vast amounts of user data, presenting businesses with opportunities to analyze consumer preferences and engagement patterns. Social Media Analytics (SMA) enables brands to track sentiment, engagement levels, and demographic trends, informing targeted marketing strategies. As digital interactions continue to shape consumer behaviour, understanding SMA's role in brand loyalty becomes increasingly crucial. While previous research has explored social media's influence on marketing, there is a need for a more data-driven approach to assess its direct impact on consumer decisions. This study investigates the effectiveness of SMA in influencing consumer behaviour, filling a gap in existing literature by providing empirical insights into how businesses can leverage analytics for enhanced brand engagement and loyalty.

The capacity to detect loyal customers, risk of churn, and advocates through analytics provides brands with a strategic advantage in competitive markets. This research sets out to assess the influence of social media analytics on consumer behaviour and the development of brand loyalty. It will delve into digital engagement metrics and their impact on consumer decision-making, as well as evaluating the ability of analytics-based strategies to develop long-term brand relationships. As corporations move through a data-driven economic landscape, this study attempts to offer insight into how social media analytics can be used not only to monitor consumer behaviour, but to influence it actively.

Research's Scope

The scope of the present study lies in assessing the influence of Social Media Analytics (SMA) on consumer attitudes and brand commitment in the domain of digital marketing. It dwells on the ways in which companies leverage information generated from social media sites e.g., user interaction indicators, sentiment metrics, and demographics data to interpret and shape consumer choice. The study examines to what degree analytics-based approaches, such as targeted advertising, personal content, and responsive communication, influence consumer perception and drive long-term brand relationships. This research focuses on consumer-oriented businesses where social networking is prominent, such as retail, fashion, and tech industries, and targets popular platforms such as Facebook, Instagram, Twitter (X). The study seeks to glean learnings both from business behaviour and consumer viewpoints to assess the practical efficacy of SMA in fostering brand loyalty. It does not encompass internal business analysis that is outside customer interactions or generic offline marketing initiatives, having a distinct emphasis on the online consumer experience influenced by social media intelligence.

Objectives

- To determine the most important metrics utilized in social media analysis that assist companies in monitoring consumer behaviour and opinion.
- To investigate the effect of social media engagement (likes, comments, shares, reviews) on consumer buying behaviour.
- To study how companies use social media analytics insights to tailor marketing messages and improve customer experience.
- To evaluate consumers' views on brands that participate actively and interact by using social media sites.

Limitations of the Study

- The research is based mainly on secondary data and self-reported data, which are liable to be biased or less reliable.
- It speaks solely to influential social media websites (e.g., Facebook, Instagram, Twitter/X),

at the expense of any insights gathered from upstart or local websites.

- The impact of extrinsic factors like cultural, psychological, or economic conditions on the buying behaviour of customers is not explicitly discussed.
- The research cannot necessarily be generalized across all sectors, geographical areas, or populations.

Review of Literature

(Kaplan and Haenlein) highlighted the use of social media as a change agent in marketing communication, facilitating two-way communication between consumers and businesses. Their research formed the basis of how brands interact with audiences online.

(Chaffey and Ellis-Chadwick) expounded on the strategic value of digital marketing and presented the idea of using real-time analytics for driving customer behaviour and enhancing marketing efficiency. Their research validates the incorporation of data-driven approaches in social media marketing.

(Lipsman et al.) pointed out how social media information gives marketers a clear picture of what people are interested in, their attitudes, and their engagement behaviour. Their paper demonstrated application of metrics such as impressions, clicks & conversions in defining online marketing strategies.

(Hudson et al.) also investigated the impact of social media interaction on brand loyalty, hypothesizing that emotional bonds developed through regular and meaningful interactions heavily impact consumer retention and brand advocacy.

(Tuten and Solomon) supported the contention that consumer social media behaviour is influenced by peer influence and responsiveness of the brand. They established that prompt responses and personalized engagement through social media analytics increase brand trust.

(Goh et al.) carried out an empirical investigation which stated that both firm-generated content (FGC) and user-generated content (UGC) both play a role in consumer purchase decisions but UGC has a greater influence based on perceived authenticity.

(Ashley and Tuten) examined the effect of content strategy on brand loyalty and concluded that visual

and interactive content on social media supported by analytics results in increased consumer engagement and long-term loyalty.

(Arora et al.) explored the use of social media analytics as predictors, demonstrating the ways in which companies utilize sentiment analysis and machine learning to accurately predict trends and patterns of behaviour among consumers.

Research Methodology

Research methodology is a strategy used to gather data and information to make decisions. The present research adopts a mixed-method methodology, incorporating quantitative and qualitative data to assess the influence of social media analytics on consumer behaviour and brand loyalty. Primary data are to be obtained through online surveys among active users of social media, whereas secondary data are to be obtained from academic journals and industry reports. A non-probability convenience sampling technique is to be applied, focusing on people between the ages of 18-45. Quantitative data will be processed using statistical software such as SPSS, while qualitative answers will be subjected to thematic analysis. The research is centred on important measures such as engagement, sentiment, and how they correlate with consumer trust and brand loyalty.

Sampling Method

Non-probability - convenience sampling method

Sample Size

The study's sample size is confined to 150 participants.

ANOVA

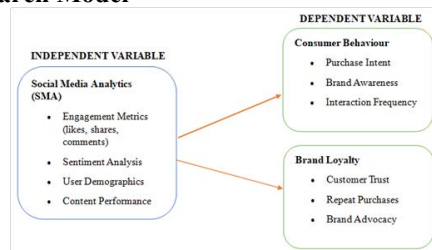
		Sum of Squares	Df	Mean Square	F	Sig.
Social Media Analytics	Between Groups	13.817	2	6.908	.844	.432
	Within Groups	1202.557	147	8.181		
	Total	1216.373	149			
Consumer Behaviour	Between Groups	24.926	2	12.463	1.693	.187
	Within Groups	1081.907	147	7.360		
	Total	1106.833	149			
Brand Loyalty	Between Groups	20.237	2	10.119	1.368	.258
	Within Groups	1087.636	147	7.399		
	Total	1107.873	149			

Tools for Data Collection

Primary data: A well-structured questionnaire is utilized to collect primary data from the customer. This questionnaire is designed to gather relevant information pertaining to the study objectives.

Secondary data: Additionally, secondary data is collected from a range of sources, such as book reviews, online publications, digital libraries, databases, and other websites. This secondary data supplements the primary data and enriches the analysis.

Research Model



Statistical Tools

ANOVA and Correlation

Data Analysis and Interpretation

Analysis of Factors using the One-Way ANOVA

Null Hypothesis (H0): There is no difference among different age groups with respect to the factors of social media analytics on consumer behaviour and brand loyalty.

Alternate Hypothesis (H1): There is a difference among different age groups with respect to the factors of social media analytics on consumer behaviour and brand loyalty.

Interpretation

Here p-value is more than 0.05, We agree with the null hypothesis, which states that there are no differences between the various age groups with respect to social media analytics on consumer behaviour and brand loyalty.

Analysis of Factors using the Correlation

Null Hypothesis (H0): There is no relationship between social media analytics on consumer behaviour and brand loyalty.

Alternate hypothesis (H1): There is a relationship between social media analytics on consumer behaviour and brand loyalty.

Correlation

		Social Media Analytics	Consumer Behaviour	Brand Loyalty
Social Media Analytics	Pearson Correlation	1	.511**	.384**
	Sig. (2-tailed)		.000	.000
	N	150	150	150
Consumer Behaviour	Pearson Correlation	.511**	1	.560**
	Sig. (2-tailed)	.000		.000
	N	150	150	150
Brand Loyalty	Pearson Correlation	.384**	.560**	1
	Sig. (2-tailed)	.000	.000	
	N	150	150	150

Interpretation

Here p-value is less than 0.05, we accept the alternative hypothesis, indicating that there is a relationship between the factors of social media analytics on consumer behaviour and brand loyalty.

As all the signs are positive, there is a clear and positive relationship between the factor's social media analytics on consumer behaviour and brand loyalty.

Findings

- There is no statistical difference across age groups concerning the effect of social media analytics on consumer behaviour and brand loyalty (ANOVA $p > 0.05$).
- There is a positive relationship between: Social Media Analytics and Consumer Behaviour ($r=0.511$)
Social Media Analytics and Brand Loyalty ($r=0.384$)
Consumer Behaviour and Brand Loyalty ($r=0.560$)
- Social media analytics have a positive effect on consumer behaviour and brand loyalty.
- Consumer behaviour is a chief bridge between brand loyalty and analytics.
- Metrics for engagement (like, comment, share) are critical in constructing consumer opinions and trust.
- High user activity levels (likes, comments, shares) play a major role in brand awareness.
- Social media analytics aid in the discovery of loyal customers and brand fans.
- Sentiment analysis captures consumer trust levels and brand perception.

Suggestions

- Social Media Analytics (SMA) tools effectively to understand and influence consumer behaviour.
- Develop interactive and stimulating content (e.g., reels, polls, videos) to increase consumer engagement.
- Provide instant and personalized feedbacks to customer inquiries and social comments.
- Execute targeted advertising campaigns using demographics, preference, and sentiment analysis.
- Emphasize and feature User-Generated Content (UGC) to build up authenticity and credibility.
- Keep track of social media trends and adjust strategies regularly for extended effects

Conclusion

This study reaffirms the pivotal role of Social Media Analytics in shaping consumer behaviour and fostering brand loyalty. Findings indicate that businesses utilizing SMA effectively can enhance

consumer engagement, trust, and brand advocacy. The absence of significant differences in SMA's influence across age groups suggests its universal applicability. By linking insights from engagement metrics, sentiment analysis, and demographic trends, this research fulfils its objective of demonstrating SMA's strategic value in digital marketing. Businesses that integrate data-driven decision-making into their marketing strategies can gain a competitive edge, ensuring sustained consumer relationships in an ever-evolving digital marketplace.

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