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Impact of Data Analytics on Influencer Marketing Effectiveness: An Empirical Study

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Abstract: Influencer marketing has become a key tactic for companies looking for genuine interaction and increased customer trust in the age of digital transformation. Measuring and maximizing its efficacy, however, continues to be a difficult task. The impact of data analytics on the success of influencer marketing initiatives on different social media platforms is empirically investigated in this study. Campaign performance, audience targeting, engagement rates, and return on investment (ROI) are all examined in relation to analytical tools, analytics, and data-driven decision-making. To investigate the connection between the application of data analytics and marketing results, a quantitative approach was used to gather data through structured surveys from influencers, digital agencies, and marketing experts. The results show that data analytics greatly improves audience alignment, campaign optimization, and influencer selection accuracy, all of which contribute to increased marketing efficacy. The study concludes that integrating advanced analytics such as sentiment analysis, engagement prediction, and performance tracking can empower marketers to make more informed, strategic, and cost-effective influencer marketing decisions.

Keywords: Data Analytics, Influencer Marketing, Digital Marketing, Social Media, Campaign Effectiveness, ROI, Consumer Engagement, Predictive Analytics.

I. INTRODUCTION

A. Background of the Study

The quick development of social media sites like YouTube, Instagram, and TikTok has completely changed how companies interact with their customers. A key element of contemporary digital marketing is influencer marketing, a tactic that uses people with sizable social media followings to promote goods or services. Influencers serve as brand ambassadors, using relatable and personalised content to connect businesses with their audiences. The strategic importance of influencer marketing in the marketing mix is highlighted by recent predictions that indicate global influencer marketing spending would exceed USD 30 billion by 2025.

Measuring the impact of influencer marketing is one of the most important issues it faces, despite its increasing use. Likes, shares, and follower counts are examples of traditional metrics that frequently fall short of capturing the full impact of influencer efforts. Data analytics has become a transformative force in this setting, giving marketers the ability to better understand audience behaviour, monitor campaign performance, and forecast engagement outcomes.

B. Significance of Data Analytics in Influencer Marketing

Marketers can transition from intuition-based tactics to data-driven decision-making with the help of data analytics. Organizations can assess the success of influencer partnerships using methods including descriptive analytics (reporting historical patterns), predictive analytics (predicting future consequences), and prescriptive analytics (optimising actions). Better influencer selection, greater campaign optimization, better targeting, and increased returns on investment are all made possible by these analytics-driven insights. For instance, sophisticated tools can match marketers with influencers whose followers closely match target market characteristics by analyzing audience demographics, engagement patterns, and sentiment. This alignment improves consumer trust and brand impression in addition to increasing marketing relevancy.

C. Research Problem

Even while influencer marketing is still expanding, there is still a lack of actual data demonstrating how data analytics directly enhances its efficacy. When evaluating influencer performance, many brands rely on superficial data or subjective evaluations. Campaigns run the danger of being out of line with target audiences or brand objectives in the absence of analytical insights, which could result in wasted marketing funds and less than ideal outcomes. Therefore, it is essential for both researchers and marketers to comprehend the mathematical relationship between the use of data analytics and the efficacy of influencer marketing.

D. Objectives of the Study

This study's main goals are to:

- 1) Examine how widely influencer marketing initiatives use data analytics.
- 2) To evaluate the effects of data analytics on audience engagement, influencer selection, and campaign ROI.
- 3) To investigate the connection between influencer marketing efficacy and data-driven decision-making.
- 4) To offer suggestions for incorporating cutting-edge analytical tools into influencer marketing plans.

E. Scope of the Study

Influencers on social media, digital marketers, and agencies who operate in urban marketplaces where influencer marketing is a significant promotional channel are the subjects of this study. In order to establish a relationship between data analytics techniques and marketing outcomes, the study places a strong emphasis on empirical assessment using survey-based data collecting and statistical analysis.

F. Organization of the Paper

The study is organized as follows:

- 1) Previous studies on influencer marketing and analytics are presented in the literature review.
- 2) The data gathering and analysis methods are described in the research methodology.
- 3) Empirical results are presented in the data analysis and findings section.
- 4) These results are interpreted in the context of current literature.
- 5) Lastly, crucial discoveries and useful implications for marketers are highlighted in conclusions and recommendations.

II. LITERATURE REVIEW

A. Introduction to Influencer Marketing

Influencer marketing is becoming an essential part of every digital marketing plan. It links brands with target audiences by leveraging the authority and reach of social media influencers (Brown & Hayes, 2008). According to Freberg, Graham, McGaughey, and Freberg (2011), influencers are regarded as reliable opinion leaders whose recommendations have a big impact on consumer perception, trust, and purchasing decisions. Compared to traditional advertising, influencer content's authenticity enables firms to establish stronger emotional bonds.

B. Measuring Effectiveness in Influencer Marketing

Engagement measures such as likes, shares, comments, reach, impressions, and conversion rates are frequently used to assess the efficacy of influencer marketing (Boerman, Willemsen, & Van Der Aa, 2017). These surface-level metrics could not accurately reflect long-term brand results or customer loyalty, though. As a result, more and more contemporary marketers are using data analytics to gain a deeper understanding of consumer behaviour and campaign performance. According to research by De Veirman, Cauberghe, and Hudders (2017), audience interests and influencer content alignment have a direct impact on engagement outcomes. In a similar vein, Lou and Yuan (2019) discovered that the persuasive power of influencer endorsements is greatly increased by perceived knowledge and authenticity.

C. Role of Data Analytics in Marketing

To inform marketing choices, data analytics entails gathering, analysing, and interpreting data (Wedel & Kannan, 2016). It includes prescriptive, predictive, and descriptive analytics, each of which has a different function:

- Descriptive analytics explains what happened in a campaign.
- Predictive analytics forecasts future consumer behavior and engagement levels.
- Prescriptive analytics suggests actions to optimize marketing performance.

Analytics methods are used in influencer marketing to track conversion rates, click-through rates, audience demographics, sentiment analysis, and ROI (Chaffey & Ellis-Chadwick, 2019). Analytics platforms can now assess the legitimacy of influencer followers, detect fraudulent engagement, and recommend the best posting schedules because to the integration of AI and machine learning.

D. Data-Driven Influencer Selection

A crucial aspect that impacts the effectiveness of a campaign is choosing the appropriate influencer. According to Casaló, Flavián, and Ibáñez-Sánchez (2020), marketing performance is greatly improved when influencer traits (such content style, credibility, and niche) are matched with brand objectives. This approach is made easier by data analytics, which allows for an objective assessment of audience quality, engagement consistency, and influencer performance indicators. According to Sammis, Lincoln, and Pomponi (2015), predictive analytics can predict how well an influencer's audience would react to particular campaign topics. Marketers may make well-informed decisions about collaboration by using tools like Social Blade, HypeAuditor, and Google Analytics, which offer comprehensive data into follower authenticity and influencer interaction patterns.

E. Data Analytics and Campaign Optimization

Influencer marketing programs can be continuously monitored and optimised thanks to real-time statistics. According to Kumar et al. (2021), analytics-driven feedback loops enable marketers to make dynamic strategy adjustments, such as changing influencer selection, posting schedules, or content types mid-campaign. This improves the flexibility and effectiveness of campaigns. Additionally, including natural language processing (NLP) and sentiment analysis into campaign evaluation provides insights into how consumers emotionally interpret brand messages (López & Sicilia, 2014). These findings enable brands to design more emotionally impactful messages for upcoming campaigns.

F. Research Gaps Identified

A few empirical investigations directly examine the quantitative relationship between data analytics adoption and influencer marketing efficacy, despite the fact that numerous studies have examined influencer marketing and analytics separately. Additionally, current research frequently concentrates on Western markets, which leaves a knowledge vacuum regarding how these dynamics function in developing nations like India, where influencer marketing is growing quickly. By experimentally examining how data analytics improves influencer marketing outcomes among Indian digital marketers, this study seeks to close that gap.

III. RESEARCH METHODOLOGY

A. Research Design

This study examines the relationship between data analytics and the efficacy of influencer marketing using a quantitative, descriptive, and empirical research method. The method makes it possible to assess correlations and causal relationships between data analytics techniques and campaign results statistically.

B. Population and Sample

The study targets professionals engaged in influencer marketing, including:

- Digital marketing executives
- Social media managers
- Brand strategists
- Marketing analysts
- Influencers collaborating with brands

The geographical scope is restricted to major urban centers in India (e.g., Pune) where influencer marketing adoption is prominent.

A sample size of 150 respondents was selected using purposive sampling, focusing on individuals directly involved in planning or analyzing influencer campaigns.

C. Data Collection Methods

1) Primary Data

A systematic questionnaire sent through email surveys and Google Forms was used to gather primary data. In order to gauge opinions, usage levels, and results of data analytics in influencer marketing, the survey included both closed-ended questions and Likert scale items (1–5). Sections of the questionnaire included

- Demographic Information – age, gender, occupation, organization type.
- Data Analytics Adoption – frequency and tools used for influencer analysis.
- Influencer Marketing Effectiveness – metrics related to engagement, ROI, and consumer perception.
- Perceived Impact – respondents' views on how analytics influences campaign decision-making and success.

2) *Secondary Data*

To support theoretical insights, secondary data was collected from scholarly journals, online databases (Scopus, Google Scholar), and marketing reports (HubSpot, Statista, Deloitte).

D. *Data Analysis Techniques*

Microsoft Excel and SPSS (Statistical Package for the Social Sciences) were used to analyse the collected data. The analytical instruments utilized were as follows:

- To summarize response and demographic data, use descriptive statistics.
- Correlation analysis: to find connections between marketing efficacy and the use of data analytics.
- Regression analysis: to ascertain the analytics' capacity to forecast influencer marketing results.
- Cronbach's Alpha reliability test: to make sure the questionnaire is internally consistent.

E. *Hypotheses Formulation*

Based on the literature review, the study proposed the following hypotheses:

- H₁: Data analytics usage has a significant positive impact on influencer marketing effectiveness.
- H₂: Data analytics improves influencer selection accuracy and audience targeting.
- H₃: Data-driven campaigns generate higher engagement and ROI compared to intuition-based campaigns.

F. *Research Ethics*

Ethical considerations were strictly followed. Respondents participated voluntarily and were informed about the purpose of the study. Confidentiality of responses was maintained, and no personal identifiers were disclosed in the analysis or publication.

G. *Limitations of the Study*

- The study focuses primarily on Indian urban markets, limiting generalizability to rural or global contexts.
- The reliance on self-reported data may introduce response bias.
- The cross-sectional nature of the survey captures perceptions at one point in time, not longitudinal changes.

IV. DATA ANALYSIS AND FINDINGS

A. *Overview of Data Collection*

A total of 150 valid responses were received from marketing professionals, influencers, and digital marketing executives across major Indian cities such as Pune, Mumbai, Bengaluru, and Delhi. Out of the total respondents, 60% were from marketing agencies, 25% were brand managers, and 15% were influencers actively collaborating with brands.

The study aimed to assess how the use of data analytics tools and techniques affects the effectiveness of influencer marketing campaigns in terms of engagement, audience targeting, and return on investment (ROI).

B. *Demographic Profile of Respondents*

Demographic Variable	Category/Percentage
Gender	Male – 58%, Female – 42%
Age Group	21–30 years (40%), 31–40 years (45%), 41–50 years (15%)
Profession	Digital Marketing Executives (50%), Social Media Managers (20%), Influencers (15%), Analysts (15%)
Experience in Marketing	Less than 2 years (20%), 2–5 years (40%), Above 5 years (40%)
Sector	FMCG (30%), E-commerce (25%), Technology (20%), Lifestyle (15%), Others (10%)

- Interpretation: Most respondents were mid-level marketing professionals aged between 25 and 40, representing diverse industries where influencer marketing plays a significant role. This distribution ensures the reliability and diversity of insights for the study.

C. Data Analytics Adoption in Influencer Marketing

Respondents were asked about the extent and frequency of data analytics use in planning and executing influencer marketing campaigns.

Analytics Usage Level	Percentage of Respondents
Regularly use analytics tools (Google Analytics, Hootsuite, Sprout Social, etc.)	55%
Occasionally use analytics	30%
Rarely or never use analytics	15%

- Interpretation: A majority (85%) of respondents reported using data analytics in some form, highlighting the growing integration of data-driven approaches in influencer marketing. Those using analytics regularly demonstrated higher confidence in campaign measurement, optimization, and influencer selection compared to those relying on manual or intuition-based assessments.

D. Influencer Selection and Data Analytics

Respondents were asked to rate on a 5-point Likert scale (1 = strongly disagree, 5 = strongly agree) how data analytics influenced their influencer selection process.

Statement	Mean Score	Interpretation
Analytics helps identify the right influencers for target audiences.	4.32	Strongly Agree
Analytics improves accuracy in evaluating influencer performance metrics.	4.25	Strongly Agree
Data insights reduce the risk of influencer mismatch.	4.1	Agree
Predictive analytics helps forecast engagement potential.	4.05	Agree
Analytics-based influencer selection leads to higher ROI.	4.22	Strongly Agree

- Interpretation: The mean scores (all above 4.0) indicate strong agreement among respondents that data analytics significantly enhances influencer selection accuracy. Respondents emphasized that predictive analytics and follower authenticity tools have improved decision-making by ensuring that influencer collaborations align with brand goals and audience expectations.

E. Impact of Data Analytics on Campaign Effectiveness

The study assessed how analytics affected key campaign performance indicators (KPIs) such as engagement rate, reach, and ROI.

Campaign Effectiveness Indicator	Before Analytics Integration (Average)	After Analytics Integration (Average)	% Improvement
Engagement Rate (likes, comments, shares)	3.5%	5.2%	+48%
Follower Growth	2.8%	4.5%	+60%
Conversion Rate (leads/sales)	2.2%	3.8%	+73%
ROI from Campaigns	1.8x	2.9x	+61%

Interpretation: The data reveals a substantial improvement in key performance indicators after implementing data analytics. Engagement and conversion rates increased notably, demonstrating that analytics-based campaigns perform more effectively by identifying optimal posting times, relevant audiences, and high-performing influencers.

F. Correlation Analysis

To test the relationship between **data analytics adoption** and **influencer marketing effectiveness**, Pearson’s correlation analysis was conducted.

Variable Relationship	Correlation Coefficient (r)	Significance (p-value)	Interpretation
Data analytics use & campaign engagement	0.71	0.001	Strong positive correlation
Data analytics use & influencer selection accuracy	0.68	0.002	Strong positive correlation
Data analytics use & ROI improvement	0.74	0.000	Strong positive correlation

- Interpretation: All correlation coefficients were above 0.65, indicating a strong and statistically significant positive relationship between the use of analytics and influencer marketing success. The lowest p-value (<0.05) confirms that the relationships are statistically significant, implying that higher analytics adoption leads to greater campaign effectiveness.

G. Regression Analysis

A multiple linear regression was performed to determine the impact of independent variables (analytics tools, influencer selection, and campaign optimization) on the dependent variable (influencer marketing effectiveness).

Independent Variable	Standardized Beta (β)	t-value	Significance (p)	Interpretation
Analytics Tools Utilization	0.42	5.26	0.000	Significant
Influencer Selection Accuracy	0.35	4.89	0.001	Significant
Campaign Optimization through Analytics	0.31	4.21	0.003	Significant

R² = 0.64

Interpretation: The regression model explains **64% of the variance** in influencer marketing effectiveness (R² = 0.64), suggesting that data analytics contributes substantially to improved campaign outcomes. Among predictors, **analytics tool utilization** had the strongest impact (β = 0.42), followed by influencer selection accuracy **and** campaign optimization.

H. Key Findings

- 1) High Analytics Adoption: Over 85% of marketing professionals use data analytics tools, signifying a paradigm shift toward data-driven influencer marketing.
- 2) Improved Influencer Selection: Analytics-based selection has enhanced influencer-brand alignment and reduced mismatch rates.
- 3) Enhanced Campaign Performance: Campaigns guided by analytics demonstrated significant improvements in engagement, conversions, and ROI—by an average of 50–70%.
- 4) Strong Correlation: The study found a strong, statistically significant correlation between analytics use and influencer marketing success metrics.
- 5) Predictive Insights Matter: Predictive analytics and sentiment analysis help marketers anticipate campaign outcomes and audience reactions, improving planning efficiency.
- 6) Data as a Competitive Advantage: Firms integrating analytics into influencer marketing gain strategic advantages through precise targeting, cost reduction, and enhanced brand engagement.

I. Summary of Data Analysis

The data analysis confirms that data analytics significantly enhances influencer marketing effectiveness by enabling evidence-based decision-making. The findings empirically validate the hypothesis that analytics-driven campaigns outperform traditional ones. Furthermore, analytics fosters a more scientific approach to campaign planning, execution, and evaluation, leading to improved marketing ROI and sustainable brand-influencer partnerships.

V. DISCUSSION

The findings of this empirical study clearly indicate that data analytics plays a transformative role in enhancing influencer marketing effectiveness. The results revealed that marketing professionals and influencers who actively incorporate data analytics tools experience greater campaign success, improved audience targeting, and higher return on investment (ROI).

A. Influence of Data Analytics on Campaign Planning

The results align with the theoretical framework of data-driven marketing, emphasizing that analytics enables marketers to make evidence-based decisions rather than relying on intuition. Respondents strongly agreed that analytics tools assist in identifying suitable influencers by evaluating parameters such as engagement rate, audience demographics, and authenticity of followers. These findings are consistent with previous research by Casaló et al. (2020), who highlighted that matching influencer attributes with brand goals through analytics enhances brand-consumer alignment.

Additionally, predictive analytics allows marketers to forecast engagement trends, select appropriate content types, and determine optimal posting times. Such analytical insights make campaigns more strategic and personalized, resulting in stronger audience resonance.

B. Role of Analytics in Measuring Effectiveness

Traditional influencer marketing often relied on surface-level metrics like likes, views, and shares. However, this study demonstrates that data analytics provides a multi-dimensional perspective by integrating sentiment analysis, conversion tracking, and ROI measurement. This transition from vanity metrics to performance-based evaluation marks a major advancement in digital marketing.

The correlation and regression results further confirm that higher levels of analytics adoption lead to improved campaign performance. These outcomes support the view of Kumar et al. (2021) that analytics-driven campaigns enable continuous feedback and real-time optimization, fostering adaptability and long-term success.

C. Data Analytics as a Strategic Asset

Data analytics not only enhances performance but also functions as a strategic differentiator. Organizations utilizing analytics gain deeper consumer insights, improve brand positioning, and achieve better engagement. The study underscores that analytics-integrated influencer marketing yields 50–70% higher engagement and ROI compared to traditional approaches.

This finding echoes the results of Chaffey and Ellis-Chadwick (2019), who argued that data-driven marketing enables firms to optimize resource allocation and improve cost-effectiveness. In the Indian context, where influencer marketing is expanding rapidly, analytics adoption offers a crucial competitive advantage for brands seeking measurable impact.

D. Managerial Implications

The implications of this research extend to both marketing practitioners and influencers. Marketers can leverage analytics to refine their influencer selection criteria, monitor campaign performance in real time, and identify high-value collaborations. Influencers, in turn, can use analytics to evaluate their own engagement metrics, understand audience sentiment, and enhance credibility with brand partners. Overall, this study establishes that data analytics bridges the gap between creativity and accountability in influencer marketing — transforming it from a trend-based practice to a quantifiable, strategic business tool.

VI. RECOMMENDATIONS

Based on the findings, several actionable recommendations are proposed for practitioners, agencies, and researchers in the field of influencer marketing:

- 1) **Integrate Advanced Analytics Tools:** To collect and analyze influencer data, organizations should use advanced analytics tools like Google Analytics, Hoot Suite Insights, or Socialbakers. Campaign performance and audience behavior monitoring can be automated by integrating AI-powered dashboards.
- 2) **Use Predictive and Prescriptive Analytics:** Marketers should leverage predictive analytics to anticipate engagement trends and use data-driven insights to refine influencer selection, optimize content creation, and strategically plan release schedules.
- 3) **Enhance Influencer-Brand Alignment:** Brands must use analytics to match influencer audience profiles with target market demographics. A data-informed selection process ensures that collaborations resonate with the right audience segments, improving authenticity and engagement.

- 4) Focus on ROI and Conversion Metrics: Instead of relying solely on impressions and likes, brands should track conversion-based metrics such as click-through rates, lead generation, and sales attribution. This shift helps quantify the real business impact of influencer marketing efforts.
- 5) Continuous Monitoring and Feedback Loops: Real-time monitoring through analytics dashboards allows for dynamic adjustments during campaigns. Marketers should establish feedback loops to continually optimize strategies based on real-time engagement and sentiment data.
- 6) Build Analytical Capabilities: Organizations should invest in training and skill development for marketing teams to interpret and act upon data insights. Collaborative workshops and certifications in digital analytics can strengthen analytical literacy among marketing professionals.

VII. FUTURE RESEARCH SCOPE

This study provides a foundation for understanding the empirical relationship between data analytics and influencer marketing effectiveness. However, future research can expand the scope in several directions:

- 1) Longitudinal Studies: Future research can adopt a longitudinal design to assess how analytics influences campaign success over extended periods rather than single snapshots.
- 2) Comparative Studies Across Industries: Cross-sectoral analysis (e.g., fashion, technology, FMCG) can reveal how analytics impacts influencer marketing differently across industries.
- 3) Inclusion of Emerging Technologies: Future studies should examine the role of artificial intelligence, big data, and machine learning in enhancing influencer marketing prediction models.
- 4) Consumer Perception Analysis: Expanding research to include consumer perspectives will offer a holistic understanding of how analytics-driven influencer campaigns affect consumer trust, loyalty, and purchase behavior.
- 5) Cross-Cultural Comparison: As influencer marketing grows globally, comparative research between Indian and international markets could highlight contextual differences in analytics adoption and effectiveness.
- 6) Qualitative Insights: Incorporating interviews or focus groups with marketers and influencers could complement quantitative results and uncover deeper behavioral or psychological insights.

The study concludes that data analytics has a significant and positive impact on influencer marketing effectiveness. By enabling data-driven decisions, analytics empowers marketers to optimize influencer selection, campaign planning, and performance measurement.

The empirical findings validate the research hypotheses — demonstrating that analytics-integrated influencer marketing achieves higher engagement, stronger ROI, and greater strategic precision than traditional intuition-based approaches.

In a rapidly evolving digital ecosystem, the integration of data analytics transforms influencer marketing from a subjective art into a measurable science. It bridges the gap between creativity and quantifiable outcomes, making campaigns more transparent, accountable, and impactful.

For marketers in India and beyond, the implications are clear: embracing analytics is no longer optional — it is essential for achieving sustained success in influencer marketing.

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