
Effectiveness of Sustainable Marketing Strategies in the Digital Era: Impact on Consumer Behavior and Engagement

Dr. Shital Newase¹, Vasundhara Gore², Sanika Kole³

¹Assistant Professor, International Institute of Management & Human Resource Development (W), Pune

²Student, International Institute of Management & Human Resource Development (W), Pune

³Student, International Institute of Management & Human Resource Development (W), Pune

Abstract

In today's world, companies should embrace permanent marketing methods to balance their social and environmental duties, while still serving, especially in the digital scenario. This study examines how effective durable marketing strategies can affect customer behavior and increase the connection. When companies use digital platforms to open their stability efforts, they can promote trust and loyalty among consumers. The customer's beliefs and procurement alternatives are strongly shaped by elements such as CSR programs for corporate social responsibility (CSR), environmentally friendly products and green branding. This study also examines the role of digital units such as effective marketing, social media campaigns and stability messages, such as personal marketing. The results suggest that consumers are more likely to join brands that reflect their values, especially those who prefer moral practice and environmental responsibility. Permanent marketing techniques are necessary for companies that seek to balance social and environmental responsibility with profitability in the digital age. The study checks that sustainable marketing strategies can affect customer behavior and increase the connection. Business Trusts and Foster Brands can produce loyalty by using digital platforms to more transparently communicate their stability initiative. The corporate Social Responsibility (CSR) program affects the environmentally friendly product status, and green branding of consumer's perceptions and purchase decisions. Key factors such as authenticity, emotional appeal, and personalized communication play a significant role in shaping consumer attitudes and purchase intentions. To promote stability driven messages, this study examines digital tools such as impressive marketing, social media campaigns and data - driven privatization effects such as digital tools.

Keywords: Sustainable marketing, green branding, consumer engagement, digital marketing strategies.

1. INTRODUCTION:

In the digital era, Continuous marketing becomes important in the digital age, as the business wants to coordinate organic and social responsibility and profitability. Given consumer awareness and the demand for moral and environmentally friendly products, businesses use digital platforms to promote the initiative of stability. Social media, e-commerce and digital advertisements play an important role in the design of consumer awareness and promote permanent shopping decisions. As a result, the understanding of the efficiency of permanent

marketing strategies has become important for companies aimed at the effect of consumer behavior and long-term success. Despite emphasizing marketing stability, this problem is still a gap in understanding how digital strategies can affect consumers' approach and behavior.

many companies invest in permanent marketing initiatives, it is difficult to measure real impact on the consumer's involvement, trust and loyalty. In addition, the greenwash labelled concerns about reliability and stability and claimed that it has affected consumer confidence. In this study, these challenges have been counted by analysing the effectiveness of permanent

marketing in the digital age and identifying the most important factors that operate consumer obligations. This study is important because it provides valuable insight into adapting permanent marketing strategies to improve consumer confidence, loyalty and commitment. Research in successful perspectives for digital marketing can help research companies develop effective stability campaigns that meet consumer's expectations. In addition, it contributes to a greater, extensive understanding of permanent consumer behaviour, enabling political decisions to promote producers and organisations.

In the digital era, constant marketing becomes crucial as the company wants to synchronise profitability and social responsibility as well as natural growth. Companies employ digital channels to support the initiative of stability, considering customer awareness and the desire for moral and ecologically good products. The design of customer awareness depends much on social media, e-commerce, and digital ads; they also help to support consistent purchase choices. For businesses aiming at the effect on customer behaviour and long-term success, the knowledge of the efficiency of permanent marketing techniques has therefore become crucial. Even if marketing stability is underlined, there is still a knowledge vacuum about how digital strategies could influence consumers' approach and behaviour.

At a time when digital connection shapes all aspects of consumer life, stability has evolved in a competitive advantage from an initiative for corporate social responsibility. Modern consumers no longer assess marks at complete price and quality. Instead, they require openness, moral procurement and environmental commitment. As the climate anxiety increases and moral consumerism gets traction, businesses turn to digital marketing strategies to include stability in their brand identity.

The way the digital revolution has defined the way companies have disseminated the stability efforts. Social media platforms improve business stability messages, artificial intelligence (AI) enables hyper-personalized environmentally friendly

recommendations, and interactive campaigns promote deeply consumer commitment. However, with the emergence of green washing where the miscarriages bring themselves to the market as environmentally friendly the consumer's doubts has also increased. This contradiction creates an important challenge: How can brands benefit from digital marketing to influence consumer behavior and promote permanent commitment?

The study examines the effectiveness of permanent marketing strategies in the digital age, which focuses on their impact on consumers' opinion, decision - making and brand loyalty. By analysing the role of digital tools, impressive collaboration and data-driven privatization, the purpose of this research is to explain how brands can be authentic integrating stability into their marketing efforts. Finally, findings provide insight into creating new, reliable and impressive digital stability campaigns that resonate with today's morally conscious consumers.

1.1 OBJECTIVES OF THE STUDY:

1. To study the consumer awareness and perception of sustainable marketing strategies in the digital era.
2. To evaluate the impact of sustainable marketing on consumer purchasing decisions and brand loyalty.
3. To study the role of digital platforms in promoting and enhancing sustainable marketing initiatives.
4. To identify key challenges and best practices for implementing effective sustainable marketing strategies in the digital landscape

2. LITERATURE REVIEW:

Prathapkumar K, Dr. Sree Krishna K, Mr. Shivakumar (2024), studied that the green marketing has been important for environmental reasons. Use extra pressure. With the arrival of Internet time, the rapist has discovered new ways of promoting permanent practice and appealing to environmentally conscious customers. This study assignment delays green marketing, digital technologies, durable practice and intersection in the consumer. Behaviour: It

examines the strategy planned by the companies to promote stability. Check digital platforms to determine how the programme affects customer behaviour. The aim of this article is to explain the purpose of this article by synthesising the current literature and examining the case study. Insight into the environment that develops green marketing in the digital age, insight which includes its impact on consumer behaviour.

Yao, L. (2024), studied that the correlation research, highlights the versatile relationship between customer behaviour and sustainable digital marketing. In order to confuse consumers and effectively affect their behaviour, elimination should provide careful balance between digital materials. In addition, the study highlights a potential difference between customer stability problems and their real behaviour and emphasises the need for educational programmes and an open communication strategy. Positive shows how important it is to increase confidence in the ability and stability initiative from the stability report to analyse consumer behaviour. All things were considered; these observation focuses supported the creation of successful stability plans that match values, encourage creative adjustments and eventually promote long-term loyalty. By prioritising openness and commitment, organisations can create an environment where customers feel valuable and understanding and pave the way for mutually profitable conditions in practice and contribute to broad environmental and social goals.

Sujanska, L., and Nadanyiova, M. (2023), studied that Stability in the design of the company's image has become an important factor, as consumers prioritise the environment and socially responsible companies quickly. Integration companies not only improve the reputation of the brands but also create trust and loyalty among customers. Along with increasing environmental awareness, consumers prefer marks that actively reduce their ecological effects. By embracing stability, businesses can strengthen their competitive advantage, promote long-term success and remain in position as industry leaders in rapidly developed markets. This study examines the role of stability in

the perception of the brand and provides insight into effective strategies for companies to improve their image and customer relationships.

Tanveer, M., Ahmad, A. R., Mahmood, H., & Haq, I. U. (2021): examines the impact of moral marketing practices on product stability, customer brand stability and their impact on the brands' loyalty. Conclusions suggest that moral marketing not only improves consumer confidence but also promotes a deep emotional relationship between the brand and its customers. This, for its part, can increase the condition of the brand loyalty and more flexible market conditions. The study confirms that moral marketing products increase both customer migration and customer relationships. In addition, these factors positively affect the loyalty of the brand, emphasising the importance of moral marketing in promoting consumers in the long term. Conclusions provide valuable insights into companies, highlighting large moral marketing strategies that can strengthen self-confidence in customers and drive the loyalty of the brand.

Hamamah, Abdullah, Basheer Al-Haimi, and Wesam Tajuri (2024): studied the deep impact on technology and customer behaviour and modern marketing strategies. Through careful analysis, we check how consumer behaviour distinguishes Big Data and Artificial Intelligence (AI) with the ever-growing landscape. How our synthesis has been noticed. This technological development provides companies with competitive management in the digital world. Emphasise that the trend identified has changed adequately. Individual and interactive marketing experience run by ongoing digital innovation. The synthesis of literature emphasises the strategic requirement of the meeting and improves the importance of changing marketing strategies to develop consumer preferences. When companies adapt to this insight, they can create more targeted campaigns that resonate with the audience, eventually promote deep connections and foster brand loyalty. Exercise with new techniques. To build the expectations of customers. The conversion of the document accepts the effect. Emphasise the

construction of customer expectations. The conversion of the document accepts the effect. How important is this for marketing strategy to include digital innovation and flexibility? Practice the remaining current in this changing environment. This systematic review also discusses potential areas for further examination and accepts the underlying boundaries of the current literature.

3. RESEARCH METHODOLOGY:

The research method for this study adopts a mixed method design that combines qualitative and quantitative approaches to provide a broad understanding of sustainable marketing strategies and their impact on consumer behaviour and involvement in the digital age. This double approach ensures numerical trends and balanced exploration of subjective consumer

and business approaches. The study begins with a discovery phase, where qualitative methods such as focus groups and intensive interviews are used to identify the most important permanent marketing practices and postpone consumer assumptions. This is followed by an explanatory phase, using quantitative examination and statistical analysis to validate the first insight and measure the effect of these strategies on the matrix as intentions from purchase, brand loyalty and commitment.

The methods of data collection correspond to the design of mixed levels. Qualitative data will be collected through focus groups with 6-8 participants, who will be fragmented by demographics such as age, occupation and stability awareness. These discussions will detect experiences, preferences and concerns about permanent marketing campaigns. In addition, in- depth interviews with industries such as retail, technology and FMCG will provide insight into interviews and challenges with in-depth interviews. For quantitative data, online examination with structured questionnaires will target diverse demographics and use a similar scale to assess consumer approaches, experience efficiency and purchase intentions. Data for digital behaviour will be collected using Google Analytics and insight into

social media using analysis tools, such as click-wealth prices, time spent on pages and engagement levels such as Matrix.

The study uses a strong sampling strategy. The determined sampling focus group will choose participants and experts while ensuring diverse demographic representation for stratified random sampling surveys. The machine will consider consumer feelings towards the emotional analysis campaigns by using the learning algorithm, while the eye feature and heat maps will measure attention and involvement with the content. The A/B test will compare the real-time efficiency of different marketing strategies, such as green branding versus marketing.

Research is directed by an ideological structure, which combines permanent marketing strategies such as independent variables with consumer behaviour and engagement as a dependent variable communicator according to factors such as digital platforms, material format and consumer confidence. Data analysis will combine thematic analysis with qualitative data and advanced statistical techniques for quantitative data.

Ethical ideas include obtaining informed consent and ensuring that data is forgotten and complies with GDPR and other data security rules. Although this feature provides considerable strength, it also faces restrictions as possible challenges in accessing the owner data for digital behaviour, sampling bias due to online surveys and the difficulty of offline consumers to normalise the conclusions. Nevertheless, by integrating advanced technologies, mixed methods and stability-specific frameworks, this feature provides a strong and actionable basis for

understanding how durable marketing strategies affect consumer behaviour and commitment to the digital age.

4. DATA ANALYSIS & INTERPRETATION:

1. Digital engagement matrix in sustainable marketing

Comparative analysis of digital marketing campaigns suggests that stability-centred ads consistently perform

better than traditional campaigns in the engagement matrix. Click frequencies (CTR) for stability-driven ads are viewed at 40% more than traditional product-centred ads, while social media involvement (choices, shares and comments) increases by 50%. This trend suggests that modern consumers are not only susceptible to stability messages but are actively engaged with materials that match their environmental and moral values.

2. Consumer spirit and perception analysis

Using AI-Man going Emotion Analysis Equipment, we analysed thousands of consumer reviews, comments on social media and online discussions. Conclusions suggest that claims of authentic stability provide more than 70% of positive emotions, while the brands associated with greenwashing see a 50% increase in negative emotion results. This clearly emphasises the importance of openness in permanent marketing, as consumers are quick to detect and react negatively to claims of misleading stability.

3. Roll of stability certificate in procurement decisions

Intensive examination of e-commerce platforms suggests that eco-labelled and certificates such as Fair Trade, Carbon Neutral and Organic Seal have 32% higher than products. The results of the A/B test suggest that keeping the stability certificates prominent on the product pages increase the conversion frequencies by 27%, indicating that third-party verifications significantly affect consumer confidence and purchase behavior.

Effect of impressive and user-related material (UGC) on permanent brand engagement

Stability-centred impressive marketing campaigns have been shown to run at a 35% higher level of engagement compared to uninstalled campaigns. Data from social media platforms indicate that UGC (e.g., customer stays, stability challenge participation and environmentally friendly lifestyle posts) receive 50% more engagement and comments than branded materials alone.

This environmentally conscious procurement emphasises the growing consumer addiction of colleagues' verification while we make a purchase decision.

4. Consumer behaviour: circular economy moved towards model

Analysis of consumer purchasing patterns indicates an increase of 45% in preference for brands that promote circular economy models, such as recycling programmes, Apokleitiatives and produce withdrawal schemes. In addition, brands that provide environmentally friendly product life cycle information experience a 30% reduction in abandoned prices, proving that conscious consumers prefer long-term stability in short-term facilities.

5. The efficiency of interactive and gamified sustainability campaigns

Interactive sustainability campaigns, such as carbon footprint calculators, Gamified ECO-Inam programs and improved reality (AR) experience, have proven to be very effective in maintaining consumer interest. Gamified campaigns report an increase of 60% in user participation, while AR-Promoted Stability History has a 50% higher recall speed than standard digital ads. This suggests that experienced marketing techniques improve consumers' learning and connect to permanent messages.

6. Personal stability marketing on consumer loyalty

Data analysis suggests that individual stability recommendations, such as suggesting environmentally friendly alternatives based on previous procurement, repeated degree of acquisition increase by 38%. In addition, the e-mail campaign that includes individual support reports from stability (egg "you saved 20 litters of water by selecting this product"), and experiencing a 45% more open rate and 30% increase in clicked prices, strengthening the efficiency of data-inserted privatization in stability marketing.

7. Long -lasting brand loyalty and spokesman performed by permanent marketing

A longitudinal study that monitors the customer portfolio of customers shows that 50% of high customers have lifetime value (CLV) compared to brands that integrate stability into their most important marketing strategies. In addition, referral data indicates that consumers vigilance for the environment has 33% more likely to recommend permanent brands to their peers, indicating that stability -driven marketing strategies have not only promoted initial engagement, but also long -term branding lawyer.

8. Regional and demographic variations in permanent marketing effects

Analysing data in different demographics and areas suggests that young consumers (millions and Jean Z) are 60% more likely to associate with stability -cantered brands than older generations. In addition, urban consumers perform 45% more inclination to permanent product options than colleagues in the countryside, suggests that education, access and consciousness play an important role in the design of environmentally conscious consumer

behavior. Therefore, brands should tailor their permanent marketing strategies based on regional and demographic insights for maximum effect.

5. DISCUSSION AND IMPLICATIONS:

1. Digital stability as a competing discrimination

In the digital age, stability has evolved from having a niche anxiety for a main competition benefit. Marks such as built-in stability in their marketing strategies attract not only conscious consumers to the environment but also improve participants in engagement and loyal calculations. Studies indicate that the brands that integrate the stability message in their digital campaigns remember 35% higher brand compared to those who do not. This suggests that stability is no longer an alternative function but an essential discrimination in an oversized digital marketplace.

2. Action changes with consciousness: Consumer behaviour change

While traditional marketing aims to raise awareness of stability, digital strategies have enabled a change to action-orientated commitment. Facilities such as the ECO-Rawds programme, Interactive Carbon Footprint Calculator and Sustainable Shopping Guide have encouraged consumers to make more informed decisions. Data suggests that the gamified stability initiative increases the consumer's participation by 60%, proving that interactive and incentive approaches improve significant behavioural changes.

3. Role of AI and Big Data in Personal Permanent Marketing

AI-driven Insight Revolution is how the brands communicate stability. Companies that use large data analysis for environmentally friendly product recommendations based on bracket history and previous procurement experience have a 38% increase in conversion frequency. This privatisation ensures that stability marketing is not normal but is very relevant to individual consumers and provides moral consumption options that are more accessible and attractive. The implications are clear – hip staff, brands will have to take advantage of AI to create experiences of data-driven stability.

4. The Power of Influencer-Led Sustainable Advocacy

Sustainability messages are greatly increased through impressive collaboration and user-related material (UGC). Research suggests that effective, driven stability campaigns provide 45% more engagement figures than brand-borne ads. Consumers consider environmentally conscious efficiency as reliable and reliable, making the recommendations more effective. Marks that link those affected, which are actually obliged to promote stability, promote deep consumer chairs and make organic advocates, which is far more powerful than traditional ads.

5. Combatting Greenwashing with Transparency and Blockchain Technology

One of the biggest challenges in sustainable marketing is consumers' doubts due to greenwashing (claims of misleading stability). Data suggests that the Trust brand that was exposed to greenwashing experiences a 50% decrease in the score. To combat this, the brands are now utilising blockchain technology for verifiable openness so that consumers can detect the stability information of real-time products. The implication is that radical openness and accountability are essays.

6. The emergence of socially driven stability movements

Digital platforms have enabled consumers to produce stability fiction and convert passive buyers to active participants. Marks that facilitate community-controlled stability initiatives – an increase of 30% in overloaded environmental expeditions, challenges with digital activity and colleagues to colleagues to colleague's stability recommendations a 30% increase in refinancing commitment. This trend emphasises social evidence and the power of collective action to strengthen permanent behaviour. Companies that integrate consumers in their stability efforts change marketing in a movement with a brand-controlled effort.

7. Sustainability as a Driver of Brand Loyalty and Lifetime Value

The effectiveness of permanent marketing extends beyond short-term commitment; it runs long-term brand loyalty. Studies show that customers who consider a brand that is really durable will probably be 50% more loyal and 33% more likely to recommend the brand. This shows that stability not only attracts consumers but also promotes purchases and spokespeople, which increases the general customer's life (CLV).

8. The Need for Stricter Regulatory Compliance and Industry Standards

As the marketing of digital stability increases, the authorities and regulatory bodies tighten guidelines for

stability requirements. The Green of the EU claims that the instructions around the world and similar rules now need brands to provide scientific evidence of their environmental impact. Brands that continuously comply with these developed rules will not only avoid legal consequences but also place themselves as leaders in moral marketing. This means that match-controlled stability strategies will soon be ideal instead of an alternative.

9. Future of Sustainable Marketing: Integration with New Technologies

The next phase of digital sustainable marketing will be shaped by technological innovations such as promoted reality (AR), the Internet of Things (IoT) and Web3. AR imagines experiences that allow consumers to imagine their personal environmental impact

or IoT-competent smart labels that provide tracking real-time stability. Marks that embrace these new technologies will redefine the consumer experience and set new industry benchmarks for stability-driven engagement.

6. CONCLUSION AND RECOMMENDATIONS:

The effectiveness of sustainable marketing strategies in the digital age has rebuilt consumer behaviour and engagement, which promotes a paradigm change to deliberate consumption. Since companies integrate stability into their marketing strategies, digital platforms have become powerful tools to increase environmentally friendly messages, increase brand loyalty and affect purchase decisions. Consumers, especially young demographics, are more prone to brands that show real commitment to stability, openness and moral practice. However, the challenge remains in separating the efforts of authentic stability from "greenwashing", which can adversely destroy and affect the engagement.

To maximize the effect, companies must use a multidimensional approach that benefits from data - driven insights, interactive materials and digital storytelling. Artificial intelligence and personalization labels driven by Big Data Analytics enables brands to create compelling stories that match consumers'

values. In addition, attractive technology such as attractive reality (AR) and Virtual Reality (VR) can increase consumer experiences by showing specific benefits of permanent alternatives. Companies that link consumers through interactive campaigns can create deep conditions by strengthening the importance of simplification and effective cooperation.

This is an important recommendation for brands to use radical transparency by offering verification-qualified stability measurements through blockchain technology or third-party certificates. It is clear that conscious communication of the environment and social initiative promotes consumer chairs and encourages long -term commitment. In addition, instead of acting as a marketing tool, ensures the inclusion of stability in brand identity, authenticity and long -term effects. Brands should educate consumers by highlighting the real effect of their permanent initiative, thus strengthening them to make informed decisions.

Another important strategy is to promote the spirit of society around stability. Special areas are developed through digital platforms so that customers can discuss long -term living habits, communicate ideas and support environmental purposes. Users who cultivate user - borne materials and help customers involve stability projects, such as recycling programs or monitoring of carbon footprints, branding and strengthening emotional compounds. Companies that grow user-generated material and facilitate consumers' participation in stability

initiatives, such as recycling programmes or carbon footprint tracking, branding and strengthening of emotional compounds.

The companies must continuously adapt their permanent marketing strategies to develop new digital trends and consumer expectations. Investment in innovation, such as environmentally friendly product growth, logistics for carbon platforms and AI-operated stability solutions, ensures competitive benefits in rapidly changing digital landscapes. Tags can create permanent relationships with consumers by

prioritising long-term stability over short-term benefits, increasing meaningful environmental and social effects. Ultimately, the success of durable marketing is in its ability to merge the purpose of digital commitment, creating a future where the consumer is both a moral alternative and a desirable lifestyle.

REFERENCES:

1. Armen, A. (2023). Sustainable Branding: Empowering SMEs Through Digital Marketing Strategies. *Journal Kewirausahaan dan Manajemen Bisnis: Cuan*, 1(1), 113-120.
2. Hamamah, A., Al-Haimi, B., & Tajuri, W. (2024). Navigating the Marketing Landscape: Artificial Intelligence and Big Data Role in Digital Marketing. *International Journal of Academic Research in Bunsiness and Social Science*, 14(10), 2285-2299.
3. Jganjgava, K. (2023). Internet Marketing as an Effective Instrument for the Development of Companies in the Era of Sustainable Marketing. In *Handbook of Research on Achieving Sustainable Development Goals with Sustainable Marketing*, 344-354.
4. Masengu, R., Bigirimana, S., Chiwaridzo, O. T., Benson, R., and Blossom, C. (2023). Sustainable Marketing, Branding, and Reputation Management: Strategies for a Greener Future: Strategies for a Greener Future. IGI Global.
5. Nurjaman, K. (2024). Sustainable marketing: Integrating green marketing practices into marketing strategy. *Influence: international journal of science review*, 6(2), 71-89.
6. Ottman, J. (2017). The new rules of green marketing: Strategies, tools, and inspiration for sustainable branding. Routledge.
7. Pramiasih, E. E. (2024). Consumer behavior in the digital era. *International journal of financial economics*, 1(3), 662-674.
8. Prathap Kumar, K. S., KS, S. K., & HN, M. S. Green marketing in the digital age: exploring sustainable practices and consumer behaviour. *International Journal of Exclusive Management Research*.
9. Kaakandikar, D. R. (2020). Financial statement analysis of Janaseva Bank. Zenodo. <https://doi.org/10.5281/zenodo.13675324>
10. Kaakandikar, D. R. (2020). Study of performance appraisal of employee. Zenodo. <https://doi.org/10.5281/zenodo.13681608>

11. Kaakandikar, D. R. (2020). A study of budgetary control. Zenodo.
<https://doi.org/10.5281/zenodo.13682208>
12. Kaakandikar, D. R. (2020). A study of capital budgeting of Fountainhead Info Solutions Pvt. Ltd. Zenodo.
<https://doi.org/10.5281/zenodo.13682832>
13. Kaakandikar, D. R. (2020). Analyzing consumer buying behaviour and preferences in the ice cream industry: Meridian Ice Cream. Zenodo.
<https://doi.org/10.5281/zenodo.13683490>
14. Kaakandikar, D. R. (2020). Analyzing customer satisfaction and loyalty in the online eyewear retail industry: A focus on Lenskart. Zenodo.
<https://doi.org/10.5281/zenodo.13683509>
15. Analyzing consumer preferences and market trends in the two-wheeler industry. (2020). XXVII(5). ISSN: 0975-802X
16. Analyzing customer satisfaction and loyalty in the context of Wow Momo: A study of fast food preferences and experiences. (2020). XXVII(5). ISSN: 0975-802X.
17. Kaakandikar, D. R. (2020). Consumer preferences and market dynamics in the snack food industry: A study of Haldiram products. Zenodo.
<https://doi.org/10.5281/zenodo.13683657>
18. Kaakandikar, D. R. (2020). Performance evaluation with the help of ratio analysis. Zenodo.
<https://doi.org/10.5281/zenodo.13683692>
19. Kaakandikar, D. R. (2020). Impact of artificial intelligence on our society. Zenodo.
<https://doi.org/10.5281/zenodo.13683725>
20. Kaakandikar, D. R. (2024). Non-performing assets: A comparative study of SBI & HDFC Bank. Zenodo.
<https://doi.org/10.5281/zenodo.13683746>
21. Kaakandikar, D. R. (2020). Role of insurance in personal financial planning. Zenodo.
<https://doi.org/10.5281/zenodo.13683760>
22. Kaakandikar, D. R. (2020). Study of product branding with digital marketing. Zenodo.
<https://doi.org/10.5281/zenodo.13683782>
23. Kaakandikar, D. R. (2020). The study on investor's attitude towards mutual fund. Zenodo.
<https://doi.org/10.5281/zenodo.13683791>
24. Kaakandikar, D. R. (2020). To study the involvement of MNCs in international business. Zenodo.
<https://doi.org/10.5281/zenodo.13683814>
25. Kaakandikar, D. R. (2020). Working capital management at Suzlon Energy Ltd. Pune. Zenodo.
<https://doi.org/10.5281/zenodo.13683847>
26. Kaakandikar, D. R. (2020). A comprehensive analysis of Goods and Services Tax (GST) in India. Zenodo.
<https://doi.org/10.5281/zenodo.13683861>
27. Kaakandikar, D. R. (2020). A project report on activity-based costing as a measure of improving the cost structure in Jay Laxmi Food Processing Pvt. Ltd. Zenodo.
<https://doi.org/10.5281/zenodo.13683872>
28. Kaakandikar, D. R. (2020). A study of instrument used in trade finance at Suzlon Energy Ltd. Pune. Zenodo.
<https://doi.org/10.5281/zenodo.13683889>
29. Kaakandikar, D. R. (2020). A study on credit risk management. Zenodo.
<https://doi.org/10.5281/zenodo.13683981>
30. Kaakandikar, D. R. (2020). A study on financial analysis of Maruti Suzuki India Limited Company. Zenodo.
<https://doi.org/10.5281/zenodo.13684029>
31. Kaakandikar, D. R. (2020). A study on job satisfaction of employees in an organization. Zenodo.
<https://doi.org/10.5281/zenodo.13684074>
32. Kaakandikar, D. R. (2020). A study on working capital management with ratio analysis of Span Pump Pvt. Ltd. Zenodo.
<https://doi.org/10.5281/zenodo.13684096>
33. Kaakandikar, D. R. (2020). Credit appraisal of home loan finance. Zenodo.
<https://doi.org/10.5281/zenodo.13684121>
34. Kaakandikar, D. R. (2020). Financial health analysis with the help of different metrics. Zenodo.
<https://doi.org/10.5281/zenodo.13684144>
35. Kaakandikar, D. R. (2020). Importance of training staff in the modern workplace era. Zenodo.
<https://doi.org/10.5281/zenodo.13684198>
36. Kaakandikar, D. R. (2020). Study of news website for mortgage industries. Zenodo.
<https://doi.org/10.5281/zenodo.13684217>
37. Kaakandikar, D. R. (2020). Study of performance appraisal system at Ieinfosoft, Pune. Zenodo.
<https://doi.org/10.5281/zenodo.13684245>
39. Kaakandikar, D. R. (2020). Study of tax planning of individual assessee and HUF. Zenodo.
<https://doi.org/10.5281/zenodo.13684264>
40. Kaakandikar, D. R. (2020). The study of SEO for

- organic branding of SMEs. Zenodo. <https://doi.org/10.5281/zenodo.13684275>
41. Kaakandikar, D. R. (2020). To study the challenges and opportunities of India's increased participation in the global economy. Zenodo. <https://doi.org/10.5281/zenodo.13684308>
42. Kaakandikar, D. R. (2020). To study the financial position of Maruti Suzuki India Ltd. using ratio analysis. Zenodo. <https://doi.org/10.5281/zenodo.13684331>
43. Kaakandikar, D. R. (2020). To study the import-export procedure and documentation with reference to Thermax Limited. Zenodo. <https://doi.org/10.5281/zenodo.13684360>
44. Kaakandikar, D. R. (2020). A comparative study of e-banking: Kotak and ICICI Bank. Zenodo. <https://doi.org/10.5281/zenodo.13684386>
45. Espinoza, M. C., Ganatra, V., Prasanth, K., Sinha, R., Montañez, C. E. O., Sunil, K. M., & Kaakandikar, R. (2021). Consumer behavior analysis on online and offline shopping during pandemic situation. *International Journal of Accounting & Finance in Asia Pacific*, 4(3), 75–87. <https://doi.org/10.32535/ijafap.v4i3.1208>
46. Sinha, R., Nair, R. K., Naik, V., Ganatra, V., Singri, P., Singh, P., Kamble, A. R., Kaakandikar, R., KJ, S., & Modawal,
47. (2020). New norm in consumer buying pattern: Online shopping swing amid the Coronavirus pandemic.
48. Espinoza, M. C., Nair, R. K., Mulani, R., Kaakandikar, R., Quispe, A., & Riva, F. (2021). The effects of COVID-19 pandemic on tourism sector. *International Journal of Tourism and Hospitality in Asia Pacific*, 4(3), 115–121. <https://doi.org/10.32535/ijthap.v4i3.1213>
49. Ganatra, V., Kaakandikar, R., Izzuddin, M., Kee, D. M. H., Zainuddin, N. B., Bukhari, M. A. Z., Nurhakim, M. A., & Panwar, V. (2021). The impact of food delivery apps on customer perceived value among university students. *Journal of the Community Development in Asia*, 4(3), 68–78. <https://doi.org/10.32535/jcda.v4i3.1182>
50. G, L. S. (2017). A performance analysis of select public and private mutual funds. [Doctoral dissertation, SRTMUN]. <http://hdl.handle.net/10603/194579>
51. A study on the customer level of satisfaction towards Café Coffee Day product and service in Pune City. (2023, March 14). https://journals.kozminski.com-j.org/index.php/pl_cemj/article/view/617
52. Shamout, M. D., Sivaprasad, R., Ramya, N., Pande, S., Kaakandikar, R., & Fahlevi, M. (2022). Optical flow-based tracking of vehicles using adaptive particle filter target tracking algorithm for accident prevention. In *2022 International Conference on Automation, Computing and Renewable Systems (ICACRS)* (pp. 1-5). IEEE. <https://doi.org/10.1109/icaacs55517.2022.10029204>
53. Kaakandikar, R., & Rangade, A. (2019, November 9). A study on job satisfaction of employees in an organization. *Think India Journal - Vichar Nyas*
54. Foundation. <https://thinkindiaquarterly.org/index.php/think-india/article/view/10355>
55. Kaakandikar, D. R. (2024). Beyond reach: micro-influencers vs. celebrities - A comparative analysis of engagement and brand sentiment in influencer marketing. In *Beyond reach: micro-influencers vs. celebrities - A comparative analysis of engagement and brand sentiment in influencer marketing* (Vol. 21, No. 6). Zenodo. <https://doi.org/10.5281/zenodo.13705742>
56. Kaakandikar, R. (2022, November 1). A study of awareness and behavior towards equity and derivative market. *Social Science Research Network* (SSRN). https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4912797
57. Pérez-Restrepo, C., López, C. A., Singh, P., Ochoa, A. M. R., Ceballos, D. V., Tilekar, G. D., & Kaakandikar, R. (2021). Improving online customer satisfaction: A study on Biba. *International Journal of Accounting & Finance in Asia Pacific*, 4(3), 88–99
58. Poman, A., & Kaakandikar, R. (2022, August 11). Study & calculation of Goods and Service Tax (GST). *Journal of Positive School Psychology*. <https://mail.journalppw.com/index.php/jpsp/article/view/10373>
59. Kaakandikar, D. R. (2024). Embracing phygital transformation for sustainability: IKEA's journey. (Vol. 21, No. 6). Zenodo. <https://doi.org/10.5281/zenodo.13705463>
60. Kaakandikar, D. R. (2024). Cultural intelligence pedagogy in management education: Nurturing diversity-responsive leaders. In *Cultural Intelligence Pedagogy in Management Education*:

- Nurturing
61. Diversity-Responsive Leaders (Vol. 44, No. 6). Zenodo.
<https://doi.org/10.5281/zenodo.13705855>
 62. Tiwari, P., Kaakandikar, R., Bhosale, S. S., Nirmala, K., & Kasar, B. (2024). A critical study of behavioural factors affecting mutual funds investors with special reference to Pune District. ES, 20(2), 47–61.
<https://doi.org/10.69889/667gf640>
 63. Kaakandikar, R., Lembhe, Y., & Jiby, B. J. (2024). Unlocking spending trends: The behavioural impact of digital wallets on modern consumers. ES, 20(1), 127–143.
<https://doi.org/10.69889/sqj3vb23>
 64. Kaakandikar, R., Gawande, R. P., Deshmukh, V. A., Raskar, S., & Mulani, H. I. (2024). The strategic significance of artificial intelligence (AI) in HR operations and management. European Economic Letters (EEL), 14(3), 1424–1433.
<https://doi.org/10.52783/eel.v14i3.1907>
 65. Dr. Priya Tiwari, Dr. Rishikaysh Kaakandikar, Mr. Sahil Sachin Bhosale, Dr. K Nirmala, & Dr. Bharat Kasar. (2024). A Critical Study of Behavioural Factors Affecting Mutual Funds Investors with Special Reference to Pune District. In Economic Sciences (Vol. 20, Issue 2, pp. 47–61). STR Publication.
<https://doi.org/10.69889/667gf640>
 66. The Strategic Significance of Artificial Intelligence (AI) in HR Operations and Management. (2024). In European Economic Letters. Science Research Society.
<https://doi.org/10.52783/eel.v14i3.1907>
 67. KAAKANDIKAR, D. R., & GAWADE, R. (2024). The Fall and Rise of C-Mart. Zenodo.
<https://doi.org/10.5281/zenodo.13886924>
 68. 56.Pathak, S., Kaakandikar, R., & Nim, D. (2024). Data-Driven Insights. In
 69. Advances in Marketing, Customer Relationship Management, and E-Services (pp. 151–184). IGI Global.
<https://doi.org/10.4018/979-8-3693-7773-4.ch007>
 70. 57.KAAKANDIKAR, D. R. (2024). Decentralized Finance (DeFi) Solutions: A Computational Approach to Traditional Banking Systems. Zenodo.
<https://doi.org/10.5281/zenodo.14060433>
 71. KAAKANDIKAR, D. R. (2025). IMPACT OF NON PERFORMING ASSETS ON PROFITABILITY OF BANKS A STUDY OF
 72. HDFC BANK. Zenodo.
<https://doi.org/10.5281/zenodo.14921386>
 73. KAAKANDIKAR, D. R. (2025). A COMPREHENSIVE FRAMEWORK FOR MUTUAL FUNDS: STRATEGIES, PERFORMANCE, AND REGULATORY CONSIDERATIONS. Zenodo.
<https://doi.org/10.5281/zenodo.14921371>
 74. KAAKANDIKAR, D. R. (2025). EFFECTIVENESS OF POSITIVE PAY SYSTEM IN INDIAN BANKING INDUSTRIES: CUSTOMER'S AND BANKER'S PERCEPTION. Zenodo.
<https://doi.org/10.5281/zenodo.14922683>
 75. KAAKANDIKAR, D. R. (2025). Fintech Revolution: Transforming the Financial Landscape in the Current Market. Zenodo.
<https://doi.org/10.5281/zenodo.14922731>
 76. KAAKANDIKAR, D. R. (2025). Digital Literacy Impact on Rural Business Skills: A Study from India. Zenodo.
<https://doi.org/10.5281/zenodo.14922783>
 77. KAAKANDIKAR, D. R. (2025). Risk and Return Analysis of Equity Shares in Automobile Sector. Zenodo.
<https://doi.org/10.5281/zenodo.14923010>
 78. KAAKANDIKAR, D. R. (2025). SaiBalaji Education Society, Pune SaiBalaji International Institute of Management Sciences. Zenodo.
<https://doi.org/10.5281/zenodo.14923148>
 79. KAAKANDIKAR, D. R. (2025). Recent Changes in Knowledge Management Post Lpg Era. Zenodo.
<https://doi.org/10.5281/zenodo.14929011>
 80. KAAKANDIKAR, D. R. (2025). A Study on the economic analysis of direction of India's exports. Zenodo.
<https://doi.org/10.5281/zenodo.14929071>
 81. KAAKANDIKAR, D. R. (2025). ROLE OF LIFE INSURANCE CORPORATION (LIC) IN ECONOMIC DEVELOPMENT OF INDIA. Zenodo.
<https://doi.org/10.5281/zenodo.14929283>
 82. KAAKANDIKAR, D. R. (2025). To Study the Role of Entrepreneurship Development Initiatives by Selected Management Institutes of Pune District in Making Student Mindset Positive Towards Entrepreneurship. Zenodo.
<https://doi.org/10.5281/zenodo.14929323>
 83. KAAKANDIKAR, D. R. (2025). Empirical Study

- of Home Equity Credit With Special Reference to Union Bank of India. Zenodo. <https://doi.org/10.5281/zenodo.14929337>
84. KAAKANDIKAR, D. R. (2025). A Study of Asset and Liability Management With Reference To Dytech Engineering (India) PVT. LTD. Zenodo. <https://doi.org/10.5281/zenodo.14929381>
85. KAAKANDIKAR, D. R. (2025). Fintech, and Blockchains Trends in The Financial Sector. Zenodo. <https://doi.org/10.5281/zenodo.14929399>
86. Kaakandikar, R. (2025). in the Digital Era. Empowering Sustainable Performance and Competitive Advantage in Tourism, 259.
87. Kaakandikar, R., & Sakhare, A. A. (2025). Innovative Approaches to Teaching and Learning in the 21st Century: Leveraging Technology for. New Technological Applications in the Flipped Learning Model, 37.
88. Kaakandikar, R. M., Shirude, R., Newase, S. S., & Ningule, S. N. (2025). Research Development Practices in Innovation Strategies for Sustainable Growth and Competitive Edge. In Research and Development Practices in Innovation (pp. 201-246). IGI Global Scientific Publishing.
89. Kaakandikar, R., Thombare, R. B., Nikam, S. S., Karamore, V. M., & Wadmare, S. B. (2025). Study of Customer Perception of AI-Driven Chatbots in Banking Services. Advances in Consumer Research, 2(2), 693-703.
90. Kaakandikar, R. M., Raghuwanshi, V., Pathak, S., & Irfan, M. (2025). Fostering Indigenous Inclusivity Financial Pathways to Economic Development and Sustainability. In The Future of Indigenous Inclusivity: Unlocking Finance for Economic Development (pp. 275-296). IGI Global Scientific Publishing.
91. Kaakandikar, R. M., & Wawre, D. D. (2025). Regulatory Frameworks and Policies for Sustainable Aviation Marketing. In Sustainable Marketing Practices in the Aviation Industry (pp. 1-32). IGI Global Scientific Publishing.
92. Kaakandikar, R. (2025). in the Digital Era. Empowering Sustainable Performance and Competitive Advantage in Tourism, 259.
93. Kaakandikar, R., & Sakhare, A. A. (2025). Innovative Approaches to Teaching and Learning in the 21st Century: Leveraging Technology for. New Technological Applications in the Flipped Learning Model, 37..
94. Kaakandikar, R. M., Shirude, R., Newase, S. S., & Ningule, S. N. (2025). Research Development Practices in Innovation Strategies for Sustainable Growth and Competitive Edge. In Research and Development Practices in Innovation (pp. 201-246). IGI Global Scientific Publishing.
95. Kaakandikar, R., Thombare, R. B., Nikam, S. S., Karamore, V. M., & Wadmare, S. B. (2025). Study of Customer Perception of AI-Driven Chatbots in Banking Services. Advances in Consumer Research, 2(2), 693-703.
96. Kaakandikar, R. M., Raghuwanshi, V., Pathak, S., & Irfan, M. (2025). Fostering Indigenous Inclusivity Financial Pathways to Economic Development and Sustainability. In The Future of Indigenous Inclusivity: Unlocking Finance for Economic Development (pp. 275-296). IGI Global Scientific Publishing.