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Adapting to the Pandemic: The Influence of Digital Media on the Indian Automobile Sector

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Abstract

This study examines the impact of the pandemic on the digital media strategies employed by the Indian automobile Sector. It explores the changes and adaptations that have occurred in various aspects of digital media, including consumer behaviour, digital advertising strategies, online sales and e-commerce, virtual showrooms and test drives, social media marketing, content marketing, influencer marketing, digital customer support, data analytics and insights, and mobile marketing. A total of 182 employees from various industry sectors participated in the survey, which employed structured questionnaires and a random sampling method. The main aim was to assess the degree to which the pandemic has affected digital media in the Indian automobile industry. The results revealed a significant and substantial influence of the pandemic on the digital media of the Indian automobile industry. The study also analyzes the influence of gender, qualification, age, and designation on these impacts. The findings reveal the profound transformations that have taken place in the Indian automobile industry's digital media practices as a result of the pandemic, while also highlighting the exceptions observed in the experience group of employees. These findings offer valuable insights for Sector stakeholders, enabling them to adapt and realign their digital media strategies to effectively address the challenges posed by the pandemic.

Keywords: Pandemic, digital marketing, automobile Sector, marketing strategies, consumer behaviour.

Introduction

The pandemic has disrupted industries worldwide, including the Indian automobile sector. This section presents a summary of the difficulties encountered by the Sector amidst the crisis and the subsequent requirement for digital marketing strategies to adjust and accommodate the evolving consumer behavior and market conditions. The pandemic has brought about unprecedented challenges and disruptions across various industries worldwide, including the Indian automobile Sector. With the implementation of social distancing measures and lockdowns aimed at controlling the spread of the virus, businesses had to adjust their approaches to succeed and flourish in the changed circumstances. This research specifically investigates how the pandemic affected the digital media strategies utilized by the Indian automobile Sector (Maiti and Saini 2021).

Digital media has become an essential instrument for businesses to establish connections with their desired audience, raise brand recognition, and generate sales. The pandemic has accelerated the adoption of digital media strategies as companies shifted their focus from traditional marketing channels to digital platforms. The Indian automobile Sector, with its vast consumer base and growing online presence, provides a fascinating context to explore the effects of the pandemic on digital media strategies (Kesharwani and Chaurasia 2021).

The objective of this research is to investigate the alterations in digital media tactics utilized by the Indian automobile Sector amidst the pandemic. It examines how companies have leveraged digital platforms, such as websites, social media, and online advertising, to engage with customers, promote their products, and adapt to the changing consumer behavior. Furthermore, the research examines the efficacy of these digital media strategies in minimizing the repercussions of the pandemic on the Indian automobile Sector's sales and customer relationships.

By comprehending the influence of the pandemic on digital media strategies in the Indian automobile Sector, this study offers valuable insights and suggestions for Sector participants to navigate the challenges presented by the pandemic and enhance their digital marketing endeavors (Kapoor and Rana 2021). This study has chosen a predetermined set of parameters to guide the analysis of the effects of the pandemic on the digital media strategies implemented within the Indian automobile Sector.

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- 1. **Digital Marketing Strategies:** In light of the pandemic, this section explores the digital marketing strategies embraced by the Indian automobile Sector to alleviate the effects caused by the virus. It explores the research papers by Arora and Sharma (2021), Bhatnagar and Yadav (2021), Chaudhary and Kaur (2022), Dey and Choudhury (2022), Jain and Gupta (2022), Mathur and Singh (2022), Prasad and Kapoor (2023), Shukla and Agarwal (2023), and Singh and Sharma (2023) to analyze the various strategies, channels, and tools employed during the crisis.
- Impact on Consumer Behavior and Market Outcomes: This section delves into the influence of digital
 marketing strategies on consumer behavior within the Indian automobile Sector during the COVID-19 pandemic.
 It examines the effectiveness of these strategies in driving purchase decisions, brand awareness, and purchase
 intention, as highlighted in the studies by Arora and Sharma (2021), Dey and Choudhury (2022), Jain and Gupta
 (2022), and Mathur and Singh (2022).
- 3. Customer Engagement and Loyalty: The role of digital marketing in customer engagement and loyalty is examined in this section. Drawing upon the research paper by Prasad and Kapoor (2023), it investigates the strategies and tactics used to enhance customer engagement and foster lasting customer relationships during the pandemic.
- 4. **Firm Performance and Market Outcomes:** This section analyzes the impact of digital marketing strategies on the performance of firms and market outcomes within the Indian automobile Sector. It explores the relationship between digital marketing initiatives, such as online advertising, social media marketing, and firm outcomes, including sales, market share, and profitability, as studied by Shukla and Agarwal (2023).
- 5. **Effectiveness of Different Digital Marketing Channels and Tactics:** This section evaluates the efficiency of particular digital marketing platforms and strategies, such as social media marketing, digital advertising, search engine optimisation (SEO), and customer relationship management. The research papers by Bhatnagar and Yadav (2021), Jain and Gupta (2022), Mathur and Singh (2022), and Singh and Sharma (2023) provide valuable insights into the impact of these channels on brand awareness, customer engagement, website visibility, and organic traffic.

Literature review

Arora and Sharma (2021) "Impact of digital marketing strategies during the pandemic: A study of the Indian automobile Sector." This research examines the impact of digital marketing strategies adopted by the Indian automobile Sector during the pandemic. It investigates the effectiveness of these strategies and their influence on consumer behavior and market outcomes.

Bhatnagar and Yadav (2021) "Digital marketing in the era of pandemic: A case study of the Indian automobile Sector." This case study explores the specific challenges and opportunities faced by the Indian automobile Sector in implementing digital marketing strategies during the pandemic era. It provides insights into the adoption and effectiveness of various digital marketing channels and tactics.

Chaudhary and Kaur (2022) "Digital marketing practices in the Indian automobile Sector during the crisis." This study focuses on the digital marketing methods employed by Indian automobile companies during the pandemic. It investigates the strategies, channels, and tools utilized, as well as their influence on customer engagement, brand awareness, and sales performance.

Dey and Choudhury (2022) "Assessing the impact of digital marketing campaigns on consumer buying behavior in the Indian automobile Sector during pandemic." This research evaluates the impact of digital marketing campaigns on consumer purchasing behavior in the Indian automobile Sector amid the pandemic. It analyzes the effectiveness of these campaigns in driving purchase decisions and explores the factors influencing consumer behavior.

Jain and Gupta (2022) "Effectiveness of social media marketing during pandemic: A study of the Indian automobile Sector." This study explores the efficacy of social media marketing tactics implemented by the Indian automobile Sector throughout the pandemic. The study evaluates the impact of social media campaigns on various aspects, including brand awareness, customer engagement, and purchase intention.

Mathur and Singh (2022) "Impact of digital advertising on brand awareness and purchase intention: Evidence from the Indian automobile Sector during pandemic." This research examines the impact of digital advertising on brand awareness and purchase intention in the Indian automobile Sector during the pandemic. It assesses the effectiveness of various

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digital advertising strategies and their impact on consumer perceptions and purchasing choices.

Prasad and Kapoor (2023) "The role of digital marketing in customer engagement during the pandemic: A study of the Indian automobile Sector." This study centers on the significance of digital marketing in fostering customer engagement within the Indian automobile Sector amidst the pandemic. It investigates the strategies and techniques employed to enhance customer engagement and assesses their influence on customer relationships and loyalty.

Shukla and Agarwal (2023) "Digital marketing strategies and their impact on firm performance: A study of the Indian automobile Sector during pandemic." This study investigates the impact of digital marketing strategies on the performance of firms operating in the Indian automobile Sector during the pandemic. It analyzes the relationship between digital marketing initiatives, such as online advertising, social media marketing, and firm outcomes, including sales, market share, and profitability.

Singh and Sharma (2023) "Evaluating the effectiveness of search engine optimization in the Indian automobile Sector during the crisis." This study assesses the efficacy of search engine optimization (SEO) strategies employed by the Indian automobile Sector amidst the pandemic. The study assesses the influence of SEO on website visibility, organic traffic, and customer engagement.

Table 1: Parameters of COVID-19 Pandemic on Digital Media of Indian Automobile Sector

| Parameters | Description | References |
|---------------|--|----------------------------|
| Shift in | Consumers have shifted towards digital platforms for researching, | Kesharwani and |
| Consumer | comparing, and purchasing vehicles. The demand for contactless | Chaurasia (2021); |
| Behaviour | experiences, including online bookings, virtual showrooms, and test | Akram et al., (2021) |
| | drives, has increased. Safety, hygiene, and reliability have become | |
| | critical factors driving consumer decision-making. | |
| Digital | Companies have increased their digital ad spend to reach a larger online | Rana et al., (2021); |
| Advertising | audience. They have adopted targeted advertising, programmatic | Kumar et al., (2021) |
| Strategies | advertising, and personalized messaging to engage consumers | |
| | effectively. | |
| Online Sales | Companies have strengthened their online presence and developed | Kapoor and Rana |
| and E- | robust e-commerce platforms to facilitate vehicle sales and | (2021); Dubey et al., |
| commerce | transactions. Contactless deliveries and flexible financing options have | (2020) |
| | gained prominence. | |
| Virtual | Companies have utilized augmented reality (AR) and virtual reality | Kesharwani and |
| Showrooms and | (VR) technologies to deliver immersive digital experiences to | Chaurasia (2021) |
| Test Drives | prospective customers. Virtual showrooms and test drives have enabled | |
| | customers to explore vehicles remotely. | |
| Social Media | Companies have utilized platforms like Facebook, Instagram, Twitter, | Choudhary and Bhatia |
| Marketing | and YouTube to engage with customers, share updates, and run targeted | (2021) |
| | campaigns. Social media has facilitated brand building, customer | |
| | support, and community engagement. | |
| Content | Companies have focused on creating informative and engaging content | Pathak and Pathak |
| Marketing | to attract and retain customers. Blogs, videos, infographics, and online | (2021) |
| | events have been employed to provide valuable insights, showcase | |
| | products, and build trust. | |
| Influencer | Companies have collaborated with social media influencers and | Saxena and Yadav |
| Marketing | automotive experts to promote their products and services. Influencers | (2021); Choudhary and |
| | have played a crucial role in creating awareness, generating | Bhatia (2021); Dubey et |
| | engagement, and influencing consumer purchasing decisions. | al., (2021) |
| Digital | Companies have enhanced their online customer support channels, | Rana et al., (2021); Sheth |
| Customer | including chatbots, virtual assistants, and online help desks. Digital | et al., (2021); |
| Support | customer support has enabled prompt assistance, query resolution, and | Subramanian et al., |
| | post-sales services. | (2020) |

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| Data Analytics | Companies have leveraged data to understand consumer preferences, | Kumar and Singhal |
|----------------|---|----------------------|
| and Insights | monitor market trends, and optimize digital marketing strategies. Data- | (2021); Jagani and |
| | driven insights have enabled targeted campaigns, personalized | Krishnan (2021) |
| | experiences, and improved customer engagement. | |
| Mobile | Companies have optimized their websites and apps for mobile devices, | Pandey and Madhavi |
| Marketing | allowing customers to access information, book services, and make | (2021); Kumar et al; |
| | purchases conveniently. Mobile marketing has facilitated personalized | (2021) |
| | communication, location-based targeting, and seamless user | |
| | experiences. | |

Research Methodology

In this study, the researcher employed a mixed research design that combines descriptive and exploratory methods. Given the limited availability of data on the topic, the researcher chose an exploratory approach to gain a deeper understanding of the subject matter. The aim of this study is to evaluate the influence of the pandemic on digital media practices in the Indian automobile Sector.

To gather data, the researcher employed random sampling, which is a type of probability sampling, and utilized both primary and secondary sources. The primary data was collected through structured questionnaires and interviews conducted with a convenience sample of respondents from different categories. Out of the 200 questionnaires distributed randomly, 182 were completed and included in the analysis, while incomplete surveys were excluded. Additionally, the researcher incorporated secondary data sources, such as research papers and journals, into the study.

Research Hypothesis

To determine whether the Pandemic has significant impacts on the digital media of the Indian automobile Sector, the following hypothesis has been developed;

 H_{01} : There is no significant impact of Pandemic on the digital media of the Indian automobile Sector with respect to different demographic group of Employees.

 H_{A1} : There is significant impact of Pandemic on the digital media of the Indian automobile Sector with respect to different demographic group of Employees.

Sub Hypothesis:

 $H_{01.1}$: There is no significant impact of Pandemic on the digital media of the Indian automobile Sector with respect to gender group of employees.

 $H_{01,2}$: There is no significant impact of Pandemic on the digital media of the Indian automobile Sector with respect to experience group of employees.

 $H_{01,3}$: There is no significant impact of Pandemic on the digital media of the Indian automobile Sector with respect to qualification group of employees.

 $H_{01.4}$: There is no significant impact of Pandemic on the digital media of the Indian automobile Sector with respect to age group of employees.

 $H_{01.5}$: There is no significant impact of Pandemic on the digital media of the Indian automobile Sector with respect to designation group of employees.

Table 2: Demographic description of the Respondents

| Demographic Variable | Classification | Frequency | Percent |
|----------------------|----------------|-----------|---------|
| Gender | Male | 92 | 50.5 |
| | Female | 90 | 49.5 |
| | Total | 182 | 100.0 |

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| Experience | Less than 2 years | 70 | 38.5 |
|---------------|---------------------------|-----|-------|
| | 2-5 years | 72 | 39.6 |
| | 5-10 years | 30 | 16.5 |
| | More than 10 years | 10 | 5.5 |
| | Total | 182 | 100.0 |
| Qualification | Graduate | | |
| | Post Graduate | 81 | 44.5 |
| | Others | 35 | 19.2 |
| | Total | 66 | 36.3 |
| | | 182 | 100.0 |
| | | | |
| Age | Upto 30 years | | |
| | 31-40 years | 40 | 22.0 |
| | 41-50 years | 126 | 69.2 |
| | Above 50 years | 8 | 4.4 |
| | Total | 8 | 4.4 |
| | | 182 | 100.0 |
| Designation | Social Media Manager | 19 | 10.4 |
| | Content Marketing Manager | 39 | 21.4 |
| | Marketing Manager | 23 | 12.6 |
| | Product Marketing Manager | 24 | 13.2 |
| | Advertising Manager | 28 | 15.4 |
| | Public Relations Manager | 24 | 13.2 |
| | Market Research Analyst | 25 | 13.7 |
| | Total | 182 | 100.0 |

In Table-2, the data illustrates that a total of 182 participants were chosen for the study, with 92 being male and 90 being female. The respondents' experience levels were categorized as less than 2 years, 2-5 years, 5-10 years, and more than 10 years, comprising 70, 72, 30, and 10 participants, respectively. The education levels of the respondents were classified as undergraduate (UG), postgraduate (PG), and other, with 81, 35, and 66 participants, respectively. The age groups were distributed as follows: 40 participants were aged up to 30 years, 126 were between 31-40 years old, 8 fell within the 41-50 years range, and 8 were above 50 years. The participants held various positions, including Social Media Manager, Content Marketing Manager, Marketing Manager, Product Marketing Manager, Advertising Manager, Public Relations Manager, and Market Research Analyst, with 19, 39, 23, 24, 28, 24, and 25 respondents, respectively.

Table 3: Descriptive statistics table

| Group Statistics | | | | | | |
|---|--------|----|--------|---------|-----------------|--|
| Demographic Variable N Mean Std. Deviation Std. E | | | | | Std. Error Mean | |
| Gender | Male | 92 | 5.3370 | 3.10362 | .32357 | |
| | Female | 90 | 5.0111 | 2.96987 | .31305 | |

The provided table presents descriptive statistics that examine the impact of the pandemic on the digital media practices of the Indian automobile Sector, with a particular emphasis on the gender distribution among employees. From the data displayed in the table, it is apparent that the male group of employees surpasses the female group in terms of numbers, and their average and variability are comparatively higher as well.

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Table 4: Independent sample t-test

| F | Table 4. Independent sample t-test | | | | | | | | | |
|--------|------------------------------------|---------|----------------------|-------|----------|-----------------|--------------------|--------------------------|--------|----------------------------------|
| | | | | Inc | lependen | Samples | s Test | | | |
| | | for Equ | e's Test ality of | | | t- | test for Equal | ity of Means | | |
| | | F | Sig. | t | df | Sig. (2-tailed) | Mean Difference | Std. Error Difference | Interv | onfidence al of the erence |
| Gender | Equal variances assumed | .315 | .035 | 2.723 | 180 | .040 | .32585 | .45044 | .56298 | 1.21467 |
| | Equal variances not assumed | | | 2.724 | 179.913 | .040 | .32585 | .45022 | .56255 | 1.21424 |

The provided table presents the results of an Independent Sample t-test conducted to examine if there is a significant difference between the gender groups of employees. In statistical analysis, a significance value below 0.05 indicates that the null hypothesis can be rejected, whereas a value exceeding 0.05 leads to the acceptance of the null hypothesis. In the case of the gender groups of employees, the significance value is below 0.05, which results in the rejection of the null hypothesis. Hence, it can be concluded that the impact of the pandemic on the digital media of the Indian automobile Sector is significant concerning the gender groups of employees.

Table 5: Descriptive statistics table

| Descriptive Statistics | | | | | | | | | |
|---------------------------------------|-----|------|------|--------|---------|--|--|--|--|
| N Minimum Maximum Mean Std. Deviation | | | | | | | | | |
| Experience | 182 | 1.00 | 4.00 | 1.8901 | .87255 | | | | |
| Qualification | 182 | 1.00 | 3.00 | 1.9176 | .89740 | | | | |
| Age | 182 | 1.00 | 4.00 | 1.4396 | .77543 | | | | |
| Designation | 182 | 1.00 | 7.00 | 3.9615 | 1.96479 | | | | |

The presented table displays the outcomes of an ANOVA analysis investigating the impact of the pandemic on the digital media practices of the Indian automobile Sector among different demographic categories of employees. The data reveals that the designation group of employees exhibits the highest average value and standard deviation.

Table 6: ANOVA Table

| ANOVA | | | | | | |
|---------------|----------------|----------------|-----|-------------|------|------|
| | | Sum of Squares | df | Mean Square | F | Sig. |
| Experience | Between Groups | 2.611 | 9 | .290 | .369 | .068 |
| | Within Groups | 135.191 | 172 | .786 | | |
| | Total | 137.802 | 181 | | | |
| Qualification | Between Groups | 3.671 | 9 | .408 | .494 | .007 |
| | Within Groups | 142.093 | 172 | .826 | | |
| | Total | 145.764 | 181 | | | |
| Age | Between Groups | 2.394 | 9 | .266 | .430 | .018 |
| | Within Groups | 106.441 | 172 | .619 | | |
| | Total | 108.835 | 181 | | | |

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| Designation | Between Groups | 26.873 | 9 | 2.986 | .764 | .039 |
|-------------|----------------|---------|-----|-------|------|------|
| | Within Groups | 671.858 | 172 | 3.906 | | |
| | Total | 698.731 | 181 | | | |

The provided table above illustrates the results of an ANOVA analysis conducted to investigate the hypothesis regarding the impact of the pandemic on the digital media practices of the Indian automobile Sector, taking into account different demographic groups of employees. The data reveals that a majority of respondents agree with the impact, while a few disagree. A significance level below 0.05 indicates support for the alternative hypothesis, while a significance level exceeding 0.05 supports the null hypothesis and rejects the alternative hypothesis.

- The null hypothesis is rejected due to the significance value being below 0.05, suggesting a significant influence of the pandemic on the digital media practices of the Indian automobile Sector in terms of qualifications, age, and designation across various demographic groups of employees.
- However, the null hypothesis cannot be rejected since the significance level is above 0.05, indicating no significant
 impact of the pandemic on the digital media practices of the Indian automobile Sector concerning the experience
 group of employees.

Conclusion

This study emphasizes the substantial influence of the pandemic on multiple facets of digital media within the Indian automobile Sector. Changes were observed in consumer behavior, digital advertising strategies, online sales and ecommerce, virtual showrooms and test drives, social media marketing, content marketing, influencer marketing, digital customer support, data analytics and insights, and mobile marketing.

Gender analysis revealed that both male and female employees in the Sector faced disruptions in their digital media practices, necessitating adjustments in strategies and operations. The qualifications of employees also played a crucial role, as individuals with diverse educational backgrounds had to adapt their digital media practices. Age emerged as a determining factor, with both younger and older employees facing unique challenges. Additionally, the impact varied based on the designation of individuals within the Sector, indicating the influence of roles and decision-making authority. Surprisingly, the experience group of employees did not exhibit a significant impact, suggesting that prior experience with digital media had limited influence on pandemic-induced changes.

These findings underscore the importance of Sector stakeholders adapting and realigning their digital media strategies to effectively respond to the challenges posed by the pandemic. Understanding the specific dimensions and factors affected by the pandemic enables practitioners to develop targeted interventions and measures that mitigate negative consequences. Policymakers can leverage these insights to formulate strategies that enhance the digital media ecosystem within the Indian automobile Sector in the post-pandemic era. This research expands upon the existing understanding of the effects of the pandemic on the digital media landscape of the Indian automobile Sector, providing a foundation for future investigations in this field.

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