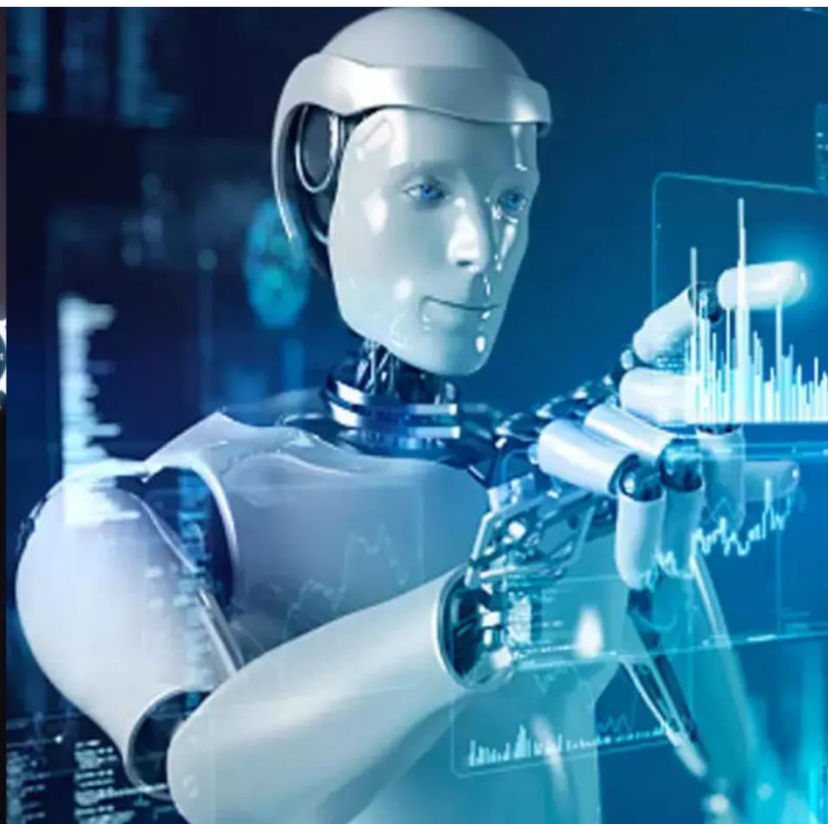




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# The Impact of Artificial Intelligence as a Catalyst for Structural Transformation in Digital Marketing

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**ABSTRACT:** The study titled “The Impact of Artificial Intelligence as a catalyst for structural Transformation in Digital Marketing” explores how emerging intelligent technologies are revolutionizing modern marketing practices. Based on data collected from 130 participants in the Bangalore Rural North region—including marketers, business owners, and digital platform users—the research analyzes the adoption of tools such as chatbots, predictive analytics, and marketing automation. The findings show that these technologies have enhanced customer engagement, improved campaign performance, and enabled more data-driven decision-making. Despite the progress, issues like high implementation costs, limited technical knowledge, and concerns about data privacy continue to pose challenges. The study highlights the need for continuous skill development, ethical data management, and the strategic use of intelligent tools to promote long-term, sustainable growth in digital marketing.

**KEYWORDS:** Artificial intelligence, digital Marketing, predictive Analytics, data driven, ethical data management.

## I. INTRODUCTION

Artificial Intelligence (AI) has become a driving force in transforming the structure and functioning of digital marketing. By integrating intelligent technologies such as machine learning, automation, predictive analytics, and chatbots, marketing practices are shifting from traditional approaches to more data-oriented and customer-focused strategies. AI enables marketers to analyze vast amounts of data, predict consumer preferences, and deliver highly personalized experiences that enhance engagement and brand loyalty.

In the current digital era, businesses are using AI not only to improve efficiency but also to reshape how marketing decisions are made. It supports smarter targeting, faster content creation, and real-time campaign optimization. This transformation signifies more than just the adoption of advanced tools—it reflects a fundamental shift in how digital marketing operates, promoting innovation, adaptability, and deeper connections between brands and their audiences.

### 1.1 Background

The growing influence of Artificial Intelligence (AI) has revolutionized the digital marketing industry by transforming how businesses connect with consumers. Traditional marketing methods are being replaced by automated, data-driven approaches that enhance precision and personalization. AI tools such as chatbots, predictive analytics, and recommendation systems help marketers understand customer behavior and improve engagement. This technological shift has made marketing more efficient, measurable, and customer-focused. The study examines how AI drives this structural transformation and reshapes the future of digital marketing practices.

Digital marketing began in the early 1990s with the introduction of the internet and basic online advertising through emails and websites. The launch of search engines like Yahoo (1994) and Google (1998) transformed how businesses reached audiences. By the 2000s, the rise of social media platforms such as Facebook and YouTube revolutionized customer interaction and brand promotion. The 2010s saw a major shift toward mobile marketing, data analytics, and

personalized advertising. Today, digital marketing continues to evolve with Artificial Intelligence, automation, and advanced data-driven strategies shaping the industry's future.

Artificial Intelligence (AI) originated in the 1950s when researchers began exploring machines that could simulate human thinking. Early developments focused on problem-solving and symbolic reasoning. In the 1980s, AI progressed with the introduction of machine learning and expert systems. The 2000s saw rapid growth due to advancements in computing power and data availability. Today, AI plays a vital role across industries, driving automation, analytics, and intelligent decision-making.

Over the past decade, the digital marketing landscape has undergone a profound transformation due to rapid technological advancements and the increasing influence of Artificial Intelligence. Traditionally, marketing strategies relied heavily on manual analysis, intuition, and mass communication methods. However, with the rise of digital platforms and the explosion of online data, marketers are now able to utilize AI-driven tools to automate processes, interpret consumer behavior, and design personalized marketing strategies with greater precision.

AI technologies—such as predictive analytics, natural language processing, and machine learning—have enabled businesses to gather insights from vast datasets, improving decision-making and customer engagement. This shift has redefined how organizations approach advertising, customer relationship management, and market segmentation. As a result, companies are moving toward more adaptive and data-centric models that focus on understanding individual customer needs rather than relying on general market trends. In this evolving context, the study explores how AI acts as a catalyst for structural transformation in digital marketing. It examines how the integration of AI reshapes traditional marketing systems, enhances operational efficiency, and creates opportunities for innovation and sustainable business growth in a highly competitive digital environment.

### **1.2 Objectives of the Study**

1. To evaluate the direct impact of Artificial Intelligence on enhancing digital marketing performance in areas such as audience targeting, personalized engagement, and automated processes.
2. To examine how AI-based insights influence customer engagement, enhance satisfaction levels, and support data-driven decision-making processes

### **1.3 Hypothesis**

➤ **AI-powered data-driven decision-making enhances the effectiveness of marketing activities.**

**Null Hypothesis (H<sub>0</sub>):** AI-based data-driven decision-making has no significant impact on marketing performance.

**Alternative Hypothesis (H<sub>1</sub>):** AI-based data-driven decision-making positively influences marketing performance.

## **II. REVIEW OF LITERATURE**

**1. Abid Haleem, Mohd Javaid, Mohd Asim Qadri, Ravi Pratap-Singh, Rajiv-Suman (2022):** Artificial intelligence applications for marketing: A literature-based study. Haleem et al.'s study provides a comprehensive overview of how expert systems are applied in marketing across multiple industries. However, it offers limited insight into their adoption in rural or localized settings. The research does not address how tools such as chatbots or automated campaigns function for small and medium-sized enterprises. Additionally, it gives little attention to their practical impact in semi-urban areas. This highlights a significant research gap in examining AI-based marketing practices within regions like Bangalore Rural North, where digital growth is emerging but not yet at the level of urban markets

**2. Dr. P. V. M. Raju, K. Prudhvi Raj, D. Navya, K. Peddintlu, Md. Zareena, Sk. Akbar Basha, T. Vennela, and Dr. K. S. Venkateswara Kumar (2022)** conducted a review titled "Role of Artificial Intelligence in Digital Marketing." The paper provides an extensive overview of how expert systems contribute to digital marketing within the Indian business context. It highlights the benefits of using such systems compared to traditional marketing techniques and explores emerging trends and possible integrations between digital marketing and AI technologies. However, the study remains largely general in scope, as it does not include detailed field-based examples or data from semi-urban or rural areas, nor does it assess how smaller enterprises in these regions have implemented or benefited from expert systems.

**3. Sepideh Bashang and Puttanna K (2023):** in their study “The Act of Artificial Intelligence in Digital Marketing,” emphasize the transformative influence of expert systems in marketing through the use of tools such as chatbots, personalized recommendations, and predictive analytics. Although the research provides valuable theoretical insights, it lacks practical validation from real-world business scenarios. The study does not investigate how small or rural enterprises are implementing these technologies, nor does it offer a region-specific perspective. This absence of localized analysis, particularly in areas like Bangalore Rural North, highlights the need for further research on how expert systems are adopted, the challenges faced, and their tangible effects in resource-constrained business environments.

**4. Yolanda-Masnita, Jati Kasuma Ali, Angginta Zahra, Nicholas Wilson, and Wegig Murwonugroho (2024):** in their work “Artificial Intelligence in Advertising: Literature Review and Future Research Agenda,” highlight the growing significance of expert systems in marketing. However, the study remains mostly conceptual, offering limited insights into region-specific applications. It does not investigate how small enterprises in rural or developing markets utilize such technologies, and the lack of empirical data restricts understanding of their real-world effectiveness. This gap presents an opportunity for further research on the adoption, challenges, and outcomes of expert-system use in localized regions such as Bangalore Rural North.

**5. Dr. Alka Singh Bhatt (2024):** in her study “The Role of Intelligent Technologies in Online Marketing,” examines how advanced automation and smart systems are transforming digital marketing through enhanced decision-making, streamlined processes, and more precise customer targeting. The paper discusses the evolution of intelligent technologies in enabling innovations such as voice and visual search, hyper-personalization, and immersive marketing experiences. However, the study remains largely theoretical, offering limited practical insights. It does not address how small or rural businesses are adopting these technologies, indicating a need for localized research, particularly in regions like Bangalore Rural North

**6. Heny Hendrayati, Mochamad Achyarsyah, Frederic Marimon, Ulil Hartono, and Lennora Putit (2024)** highlight how Artificial Intelligence is transforming digital marketing through personalized customer experiences, process automation, and trend forecasting. Technologies such as chatbots, recommendation engines, and data-driven targeting enhance customer engagement and operational effectiveness, helping businesses remain competitive. However, existing studies largely focus on global or metropolitan contexts, providing limited understanding of rural areas like Bangalore Rural North. Factors such as MSME adoption, consumer confidence, and ethical considerations are insufficiently addressed, indicating the need for region-specific research on AI adoption, its outcomes, and related challenges in digital marketing.

**7. Bora Gunduzyeli (2024):** in the study “Digital Marketing through Artificial Intelligence within the Framework of Sustainable Management,” explains how AI-driven marketing supports sustainable business practices by enabling efficient campaigns, ethical communication, and data-informed decision-making that strengthen brand value and environmental accountability. Despite these insights, existing research mainly emphasizes urban contexts, leaving semi-urban and rural regions such as Bangalore Rural North underrepresented. The relationship between sustainability, data privacy, and ethical considerations is not thoroughly examined. Understanding how consumer data is gathered, analyzed, and utilized is essential for fostering trust, underscoring the need for localized and context-specific studies on AI adoption in digital marketing.

**8. Soumya Chowdhury, Dr. Sudip Basu, and Dr. Ashoka N (2024):** in their study “Influence of AI-Driven Digital Marketing on Consumer Purchase Intention: An Empirical Study,” examine the role of machine intelligence tools such as personalized suggestions, behavioral targeting, chatbots, and predictive analytics in shaping consumer behavior. However, the research primarily concentrates on urban audiences, offering little insight into rural or semi-urban contexts like Bangalore Rural North. It also fails to consider the difficulties small enterprises face in resource-constrained environments. This gap highlights the need for empirical investigation into localized adoption of machine intelligence, consumer attitudes, and real-world application in digital marketing

**9. Dr. M. Ruby Evangelin, Dr. A. Gokulakrishnan, Dr. M. Prabhakar Christopher David, and Dr. P. Sasikumar (2025):** in their study “The Influence of Artificial Intelligence Application Towards Digital Marketing,” focus on the practical use of AI technologies such as chatbots, semantic search, and web development to strengthen

digital marketing performance. The research highlights these innovations as key enablers for creative and specialized functions in advertising and social media management. However, it overlooks how small or resource-constrained enterprises adopt such tools, particularly in rural regions. The study also gives limited attention to the impact of infrastructural challenges and digital literacy gaps on the implementation of AI-based marketing practices in areas like Bangalore Rural North.

**10. Reduanul Hasan, Mohammad Shoeb Abdullah, Khadiza Tasnim, and Md. Zillul Karim (2025):** in their study “Artificial Intelligence in Digital Marketing: Enhancing Personalization and Consumer Engagement,” explore how AI enhances marketing personalization through targeted advertising and customized promotions, transitioning from transactional approaches to relationship-focused strategies. The research emphasizes how AI leverages consumer data to create deeper engagement while also addressing ethical concerns such as data privacy. Although the advantages are well discussed, the study lacks empirical insights into how small enterprises in rural regions adopt these technologies. The effects of AI-driven personalization in semi-urban areas like Bangalore Rural North remain unexplored, signaling a need for localized studies on implementation and consumer behavior.

### **III. RESEARCH METHODOLOGIES**

The research methodology outlines the systematic process used to study how intelligent technologies are transforming digital marketing. It includes the research design, sampling framework, data collection techniques, and analytical tools applied to evaluate and interpret the findings.

#### **3.1 Research Design**

This study uses a descriptive research design to explore how intelligent technologies are reshaping the field of online marketing. Its aim is to collect reliable and precise information about the influence of machine intelligence tools on customer engagement, marketing approaches, and overall business performance.

#### **3.2 Population and Sample**

The sample consists of 130 participants, including customers, digital marketing experts, and digital media professionals who work with online platforms and marketing campaigns, offering valuable insights based on their experiences and perspectives.

#### **3.3 Data Collection method**

The study employed a convenience sampling method to carry out the survey, focusing on the digital marketing sector within the Bangalore Rural north region. Primary data for the study were gathered using a questionnaire that included multiple-choice and statements measured on a Likert scale. Secondary data were obtained from multiple sources, including scholarly journals, industry reports, market research publications, articles, and reputable online platforms.

#### **3.4 Data Analysis Tools**

The collected data were analyzed using descriptive statistics, frequency distributions, and percentage analysis to identify trends in the adoption of intelligent technologies within online marketing. Responses from the Likert-scale items were converted into numerical scores to evaluate participants' attitudes and perceptions. Additionally, chi-square tests were applied to determine the relationship between demographic variables and the utilization of these technologies.

#### **Variables**

- **Dependent Variable:** Structural transformation in digital marketing — measured through changes in marketing strategies, customer engagement, automation levels, and overall marketing performance.
- **Independent Variable:** Adoption and application of Artificial Intelligence — including AI-driven tools such as chatbots, predictive analytics, personalization systems, and automation technologies that influence marketing processes and outcomes.

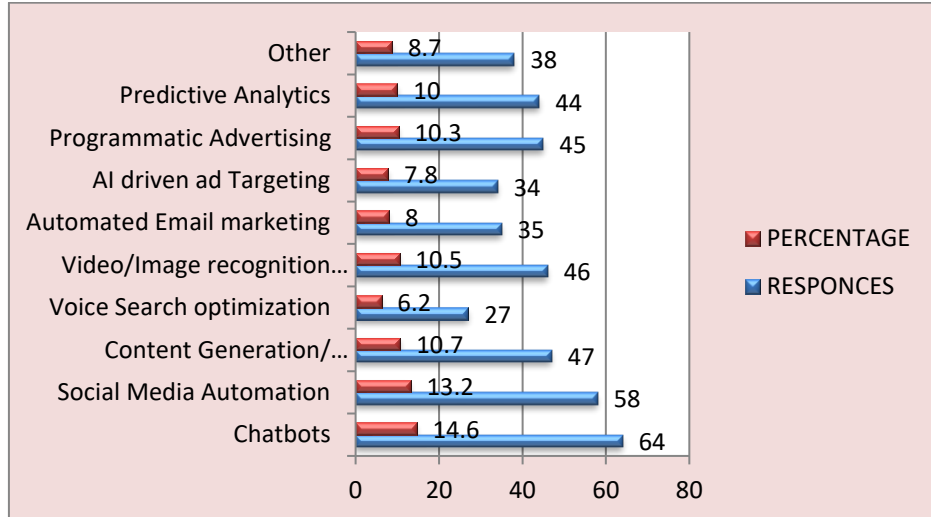
**IV. DATA ANALYSIS AND INTERPRETATION****1. Demographic Profile**

Among 130 Participants the majority of respondents (55.8%) are under 25, highlighting strong engagement from younger individuals, while older age groups have lower representation. Females (55.4%) slightly outnumber males (44.6%), showing balanced gender participation. Most participants are customers or students (30%) and digital marketers (20.8%), with fewer marketing managers and business owners, indicating a mix of learners and practitioners. Additionally, over half (58.5%) have less than two years of experience, suggesting that many are relatively new to digital marketing, while only a small portion have extensive professional experience.

2. The following table and Graph illustrates the commonly used Artificial Intelligence (AI) tools in digital marketing among respondents. It highlights the frequency and percentage of usage for different AI applications, providing insights into which technologies are most preferred for enhancing digital marketing efficiency, customer engagement, and data-driven strategies

**Table 1. Commonly Utilized AI Tools in Digital Marketing**

| PARTICULARS                           | FREQUENCY | PERCENTAGE(%) |
|---------------------------------------|-----------|---------------|
| Chatbots                              | 64        | 14.6          |
| Social -Media Automation              | 58        | 13.2          |
| Content -Generation/<br>creation tool | 47        | 10.7          |
| Voice- Search optimization            | 27        | 6.2           |
| Video/Image recognition-<br>Tool      | 46        | 10.5          |
| Automated Email- marketing            | 35        | 8             |
| AI driven ad -Targeting               | 34        | 7.8           |
| Programmatic- Advertising             | 45        | 10.3          |
| Predictive- Analytics                 | 44        | 10            |
| Other                                 | 38        | 8.7           |
| Total                                 | 430       | 100           |



Graph 1. Showing Commonly Utilized AI Tools in Digital Marketing

#### Analysis and Interpretation

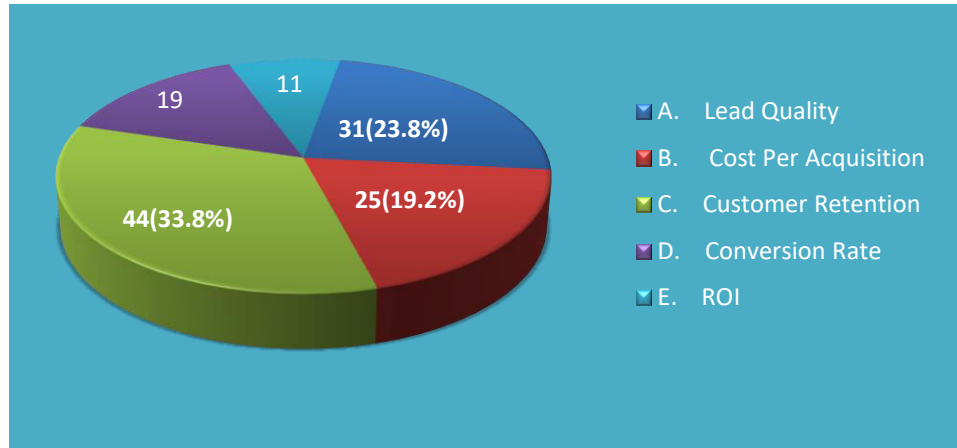
The data show that chatbots (14.6%) and social media automation tools (13.2%) are the most frequently used AI applications in digital marketing, reflecting their vital role in improving customer interaction and online engagement. Content creation tools (10.7%), programmatic advertising (10.3%), predictive analytics (10%), and image or video recognition tools (10.5%) also have significant adoption, indicating a growing preference for automation and data-driven decision-making. Automated email marketing (8%) and AI-based ad targeting (7.8%) continue to support personalized outreach and campaign precision. The presence of “other” tools (8.7%) shows that businesses are exploring diverse AI innovations to strengthen marketing performance. Overall, the results highlight that marketers are increasingly relying on AI technologies to optimize efficiency, enhance creativity, and deliver more tailored customer experiences

3. The table below presents the key marketing performance metrics improved through the adoption of Artificial Intelligence (AI) in e-marketing. It outlines how AI integration has strengthened various aspects of marketing effectiveness, including customer engagement, campaign optimization, lead conversion, and overall return on investment, providing a clearer understanding of AI’s contribution to digital marketing success.

Table 2. Major Marketing Performance Indicators Improved Through AI Integration in E-Marketing

| PARTICULARS          | RESPONDENTS | PERCENTAGE(%) |
|----------------------|-------------|---------------|
| Lead -Quality        | 31          | 23.8          |
| Cost Per-Acquisition | 25          | 19.2          |
| Customer-Retention   | 44          | 33.8          |
| Conversion- Rate     | 19          | 14.6          |
| ROI                  | 11          | 8.5           |
| <b>Total</b>         | <b>130</b>  | <b>100</b>    |

Graph 2: Showing Major Marketing Performance Indicators Improved Through AI Integration in E-Marketing



#### Analysis and Interpretation

The data reveal that customer retention (33.8%) is the most positively influenced metric by AI adoption in e-marketing, indicating that intelligent technologies are highly effective in maintaining long-term customer relationships through personalized engagement. Lead quality (23.8%) and cost per acquisition (19.2%) follow, suggesting that AI helps businesses attract more qualified leads while optimizing marketing expenses. Conversion rate improvement (14.6%) reflects AI's ability to refine targeting and enhance user experiences, leading to better campaign outcomes. Return on investment (ROI) shows the lowest impact at 8.5%, implying that while AI contributes to performance efficiency, measurable financial gains may take longer to materialize. Overall, the results highlight AI's strong role in strengthening customer-focused strategies and improving marketing effectiveness.

Table 3: Chi- Square test of Hypothesis

| Factors                                         | Observed (O) | Expected (E) | (O-E) <sup>2</sup> / E |
|-------------------------------------------------|--------------|--------------|------------------------|
| AI's Role in Personalizing Digital Messages     | 48           | 52.25        | 0.34                   |
| Competitiveness in Digital Marketing            | 53           | 52.25        | 0.01                   |
| Role of AI in Competitiveness                   | 57           | 52.25        | 0.43                   |
| AI Analytics on Understanding Customer Behavior | 51           | 52.25        | 0.02                   |
| Total                                           |              |              | 10.024                 |

Table 4: Showing Summary of Statistical Findings

| Hypothesis                                                            | Test Used       | Calculated Value | Tabular Value (5% significance) | Result                  | Inference                               |
|-----------------------------------------------------------------------|-----------------|------------------|---------------------------------|-------------------------|-----------------------------------------|
| AI-enabled data-driven decision-making improves marketing performance | Chi-square test | 10.024           | 9.488                           | Rejected H <sub>0</sub> | AI positively impacts marketing perform |

#### Linking Results to Hypothesis Test

The chi-square test was conducted to examine whether AI-enabled, data-driven decision-making has a significant effect on marketing performance. The calculated chi-square value (10.024) is higher than the tabulated value (9.488) at a 5% significance level, indicating a statistically significant relationship between the two variables. Therefore, the null hypothesis is rejected, and the alternative hypothesis is accepted. This means that the use of AI in data-driven decision-making positively influences marketing performance. In simple terms, businesses that apply AI-based analytics and insights are better able to make informed decisions, enhance personalization, and improve overall marketing outcomes.

## V. RESULTS AND DISCUSSION

## 5.1 Key Findings

The study reveals that AI adoption is significantly transforming digital marketing practices in the Bangalore Rural North region. Analysis of AI tools usage shows that chatbots (14.6%) and social media automation (13.2%) are the most widely employed, highlighting their critical role in enhancing customer engagement and improving interaction on digital platforms. Tools such as content creation, programmatic advertising, predictive analytics, and video/image recognition are also gaining traction, demonstrating that businesses are increasingly relying on automation and data-driven insights to improve marketing efficiency. These findings align with previous studies by Bashang and Puttanna (2023) and Hendrayati et al. (2024), which emphasize AI's role in personalization, campaign automation, and predictive targeting. However, unlike many prior studies focused on urban or global contexts, this research provides new insights specific to semi-urban and rural markets like Bangalore Rural North, highlighting the adoption patterns and preferences of smaller enterprises and emerging businesses.

## 5.2 New Insights and Contradictions

In terms of marketing performance metrics, customer retention (33.8%) emerged as the most positively affected by AI adoption, followed by lead quality (23.8%) and cost per acquisition (19.2%). Conversion rates and ROI showed moderate improvement, suggesting that AI improves operational efficiency and relationship-driven marketing more immediately than financial returns. These results partly contrast with global-focused studies, where ROI often appears as a major benefit of AI, indicating that rural and semi-urban businesses may experience benefits in engagement and efficiency before financial gains. The chi-square hypothesis test further confirms that AI-enabled data-driven decision-making significantly enhances marketing performance, supporting the notion that businesses using AI for analytics, personalization, and predictive insights can make more informed decisions and optimize strategies effectively.

## 5.3 Practical Implications:

For digital marketers and marketing professionals, the study highlights the value of integrating AI tools such as chatbots, predictive analytics, and programmatic advertising to improve engagement, personalize messaging, and optimize campaigns even in semi-urban contexts. For organizations, adopting AI can strengthen competitiveness, enhance customer retention, and create more data-driven decision-making processes. Policymakers can encourage digital literacy initiatives and infrastructure development to support AI adoption among MSMEs in rural regions. For society, wider adoption of AI-driven marketing ensures consumers receive more relevant, timely, and personalized content, improving overall customer experiences.

Overall, this research demonstrates that AI adoption is no longer limited to urban enterprises; even businesses in Bangalore Rural North can leverage intelligent technologies to enhance marketing performance, offering both theoretical and practical insights for the evolving digital marketing landscape.

## VI. CONCLUSION AND SUGGESTIONS

## 6.1 Summary of Findings

The study indicates that intelligent technologies are significantly influencing digital marketing practices in the Bangalore Rural North region. Businesses are increasingly adopting AI-driven tools such as chatbots, social media automation, content creation systems, predictive analytics, and programmatic advertising to enhance customer engagement, streamline tasks, and improve campaign effectiveness. Chatbots and social media automation emerged as the most widely used tools, while predictive analytics and content generation are also gaining popularity. AI adoption has shown the greatest impact on customer retention, lead quality, and cost efficiency, while improvements in conversion rates and ROI are moderate. The chi-square test confirms that AI-enabled data-driven decision-making positively influences marketing performance. Younger professionals are the most active users, though middle-aged employees also demonstrate growing acceptance. Overall, the findings suggest that AI enhances personalization, targeting accuracy, and operational efficiency, providing businesses with a competitive edge, while highlighting the need for continuous learning, adaptation, and addressing ethical, technological, and workforce-related challenges.

### 6.2 Suggestions

Businesses in the Bangalore Rural North region should actively adopt AI tools like chatbots, predictive analytics, and automation to enhance customer engagement and marketing efficiency. Training programs should be provided to improve digital literacy among employees, ensuring effective implementation. Organizations should also address ethical and data privacy concerns while continuously monitoring AI performance to optimize marketing strategies. Collaboration with policymakers and industry bodies can help overcome infrastructure and resource limitations, promoting sustainable and inclusive digital growth.

### 6.3 Scope For the Future Study

Intelligent technologies hold significant potential for transforming online marketing in Bangalore Rural North, where digital adoption is gradually increasing. These tools can enhance campaign automation, customer engagement, and personalized marketing by tailoring content and offers to specific demographics and behaviors. There is also considerable scope for training rural entrepreneurs and marketers in data analysis, digital tools, and modern marketing techniques to bridge knowledge gaps and encourage wider adoption among small and medium enterprises. Integrating emerging technologies such as IoT, virtual reality, and augmented reality can create more interactive campaigns, while ethical use and data privacy remain critical. Further research on AI-driven campaigns, consumer responses, and cost-effectiveness in rural and semi-urban markets can provide practical insights to optimize strategies and support sustainable growth in the region's digital marketing ecosystem.

### 6.5 Limitations of the Study

- Digital marketing research is inherently not completely precise, as every study faces certain limitations that can affect the accuracy of results.
- In this study, several areas within the Bangalore region were not included.
- Some organizations did not permit the distribution of survey questionnaires.
- A portion of respondents did not fully complete the questionnaires or provide detailed responses.

### 6.6 Conclusion

The study reveals that intelligent technologies are significantly reshaping digital marketing in the Bangalore Rural North region. Businesses are increasingly using tools such as chatbots, social media automation, content creation systems, predictive analytics, and programmatic advertising to boost customer engagement, optimize processes, and improve campaign outcomes. Adoption is highest among younger professionals, though middle-aged employees are also embracing these technologies, showing widespread acceptance. Rather than replacing human roles, these tools are enhancing efficiency and decision-making. When implemented effectively, they provide a competitive advantage, elevate operational performance, and enhance customer satisfaction. By addressing ethical, technological, and workforce-related challenges through continuous learning, businesses in the region can leverage AI to improve targeting accuracy, marketing effectiveness, and customer experience, helping bridge the digital gap with urban areas and fostering sustainable and inclusive digital growth.

## REFERENCES

1. Haleem, A., Javaid, M., Qadri, M. A., Pratap-Singh, R., & Suman, R. (2022). Artificial intelligence applications for marketing: A literature-based study. *Journal of Business and Management (IOSR-JBM)*. 26(5), 18-26.
2. Dr.P.V.M.Raju1, K. Prudhvi Raj, D.Navya, K.Peddintlu, Md.Zareena, Sk.Akbar Basha, T. Vennela, Dr.K.S. Venkateswara-Kumar (2022): Role-of Artificial Intelligence in Digital Marketing- A Review. *Journal of Business, Communication & Technology*, pp 54-65.
3. Sepideh Bashang, Puttanna K (2023) The act of Artificial-Intelligence in Digital Marketing, *International-Journal of @Advances in Engineering and Management*, 6(8), 441-450.
4. Yolanda-Masnita, Jati-Kasuma-Ali, Angginta-Zahra, Nicholas-Wilson, Wegig Murwonugroho.(2024) Artificial-Intelligence in Marketing: Literature-Review and Future-Research Agenda: *Journal of System & Management=Sciences*, 14 (1) ,120-140.
5. Dr Alka Singh Bhatt( 2024): The position of Artificial-Intelligence in Digital-Marketing. *International-Journal of @Advances in Engineering and Management (IJAEM)* 6(8) 441-445

6. Heny Hendrayati , Mochamad Achyarsyah , Frederic Marimon , Ulil Hartono , Lennora Putit (2024): The force of Artificial-Intelligence on Digital Marketing: Leveraging Potential in a Competitive-Business Landscape. *Emerging Science Journal* 8(6) 2343- 2359.
7. Bora Gunduzeli (2024): Artificial Intelligence in Digital Marketing Within the Framework of Sustainable Management. *Sustainability*. Article 16,10511. 16, 4 pp: 3 – 16,
8. Soumya -Chowdhury Dr. Sudip -Basu Dr. Ashoka N (2024) Influence of AI driven Digital Marketing on Consumer Purchase Intention: An Empirical Study. *Journal of Management and Informatics*, 4( 2), 822-843
9. Reduanul Hasan1, Mohammad Shoeb Abdullah1, Khadiza Tasnim1, Md Zillul Karim (2025): Artificial Intelligence in Digital-Marketing Enhancing Personalization and Consumer Engagement. *Asian-Journal of Research in Compute-r-Science*, 18(3), 395-410,
10. Dr M.Ruby Evangelin1, Dr A .Gokulakrishnan , Dr M.Prabhakar Christopher David, Dr P.Sasikumar (2025): The effect of Artificial-Intelligence-Application-Towards Digital Marketing, *journal of Consumer-Research*, 2 (4) pg 1567 – 1576.



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