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# A Study on Transformative Impact of Digital Advertising on E-Commerce Startups

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#### Abstract

In today's digitally dominated era, digital advertising stands out as a pivotal tool for startups, especially those in E-commerce, to expand their reach, enhance brand visibility, and drive targeted engagement and sales. This study explores the transformative impact of digital advertising on the success of E-commerce startups, leveraging primary data analysis. The widespread availability of internet technologies and data connectivity has spurred the digital advertising adoption among E-commerce startups. This trend underscores the significance of digital advertising in enabling startups to capitalize on global opportunities and establish a competitive edge in the market. Through primary data analysis, this study unveils several key findings. Firstly, digital advertising is universally embraced by E-commerce startups, with all surveyed startups investing in digital advertising to varying degrees. Secondly, while startups face challenges such as budget constraints and targeting issues, they overwhelmingly perceive digital advertising advertising as highly effective in achieving their business goals.

The study also reveals valuable insights into the preferred digital advertising channels among E-commerce startups, with social media emerging as the most popular choice. Additionally, startups exhibit a willingness to adapt and innovate their digital advertising strategies, indicating a dynamic and forward-thinking approach to marketing.

Keywords: Digital advertising, Start-ups, E-commerce, Transformation, Business, Entrepreneur

# 1. Introduction

In recent years, the landscape of E-Commerce has been significantly transformed by the rise of digital advertising. As E-Commerce startups strive to carve out their niche in a competitive market, digital advertising has emerged as a major tool for brand awareness, customer engagement, and sales. This study aims to explore the transformative impact of digital advertising on E-Commerce startups, focusing on its role in shaping business strategies, enhancing customer reach, and optimizing conversion rates. Digital advertising has revolutionized the way E-Commerce startups connect with their target audience. Through targeted ads, personalized messaging, and innovative campaigns, startups can now reach a global audience with unprecedented precision. Moreover, digital advertising has enabled E-Commerce startups to optimize their conversion rates by analyzing customer behavior, testing different ad formats, and leveraging data analytics. This has resulted in higher conversion rates and increased sales for many startups, making digital advertising an essential component of their marketing strategy. Despite its transformative impact, digital advertising also presents challenges for E-Commerce startups, such as rising advertising costs, ad fatigue,



and the need for continuous innovation. This study is going to explore these challenges and identify strategies that startups can use to overcome them.

Overall, this study seeks to give valuable insights on transformative impact of digital advertising on E-Commerce startups, highlighting its role in driving growth, enhancing customer engagement, and shaping the future of E-Commerce.

In conclusion, this study underscores the critical role of digital advertising in the success of E-commerce startups. By prioritizing customer engagement, leveraging data-driven insights, and staying abreast of industry trends, startups can enhance the effectiveness of their digital advertising efforts and drive sustainable growth in the competitive E-commerce landscape.

## 2. Review of literature:

The literature review involves referring of existing research work in the respective demine. It provides theorical knowledge to the research and enlarge knowledge of the researcher. In this researcher has gone through the scholarly articles and publications. Some of them are as follows.

Chen et al. (2019) Digital advertising allows startups to target specific customer segments based on demographics, interests, and online behavior. This personalized approach, as noted by researchers, enhances customer engagement and promotes brand loyalty.

Smith et al. (2020) From this study the researcher has concluded that digital advertising has become a cornerstone for E-Commerce startups, with trends such as personalized ads, influencer marketing, and social media advertising gaining prominence.

Johnson and Lee (2020) Digital advertising plays a crucial role in customer acquisition for E-Commerce startups. This study has come to know that effective digital advertising campaigns can lead to a substantial increase in new customer acquisition rates, thereby boosting sales.

Gupta & Sharma (2020) In this study the researchers concludes that compared to traditional advertising channels, digital advertising offers a more cost-effective solution for E-Commerce startups. This study indicates that startups can achieve higher ROI through digital advertising, especially when using analytics to optimize ad spend.

Wang & Kim (2021) This study has done on the digital advertising poses challenges for E-Commerce startups, such as ad fraud, ad blocking, and rising advertising costs. Researchers suggest that startups need to adopt strategies to mitigate these challenges and maximize the effectiveness of their digital advertising efforts.

Li & Wu, (2023) This study says that future of digital advertising for E-Commerce startups lies in adopting emerging technologies such as AI, machine learning, and augmented reality. Studies recommend that startups invest in these technologies to get the targeting, personalization, and overall effectiveness of their digital advertising campaigns.

#### 3. Objectives of the study

- 1. To explore the role of digital advertising in the current scenario.
- 2. To recognize the relationship between digital advertising and business performance of startups.
- 3. To explore the impact of digital advertising on the success of startups in E-commerce.

#### 4. Hypothesis of the study

H0- Increased investment in digital advertising does not have an impact on the revenue generation and



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#### success of E- Commerce sector

**H1**- Increased investment in digital advertising does have an impact on revenue generation and success of E- commerce sector.

## 5. Significance of the Study

Digital advertising has become a pivotal tool for E-Commerce startups, influencing their growth, visibility, and revenue. digital advertising plays a crucial role in the success of E-Commerce startups, offering enhanced reach, customer targeting, and cost-effectiveness. However, startups must also address challenges and embrace emerging trends to fully leverage the potential of digital advertising in the E-Commerce landscape. this study is going to provide the valuable insights into the transformative impact of digital advertising on E-Commerce startups, highlighting its role in driving growth, enhancing customer engagement, and shaping the future of E-Commerce.

#### 6. Scope and Limitations of the study

This study has been limited to the Tumkur city with respect to 20 respondents only from E-Commerce startups. The scope of this research could be increased by conducting the research in different parts of India which might give a better picture of transformative impact of digital advertising on E-Commerce startups

#### 7. Research Design

For executing this study, the researcher has made a descriptive research study.

#### 8. Sources of Data

The data required for the study has been collected through using a well-structured questionnaire, sent through Google forms and the Secondary Data has been used in the form of different research articles and reports.

#### 9. Sample Design

- **1.** The Population of the study: The population of the study comprises all the startups which have been established in E-Commerce sector and doing their business in Tumkur city.
- **2.** Sample Size: The sample size is 20 respondents from Tumkur city who have started E-Commerce startups.
- **3.** Sampling Technique: A convenient sampling technique has been used to select the sample unit. For the respective study.

#### 10. Data Analysis

Different techniques have been used such as graphical method, ratio method and ANOVA test has been used.

The research has been done by conducting a primary research with the help of questionnaire with the sample size of 20 respondents.

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Gender	No of respondents	%
Male	9	45
Female	11	55
Total	20	100

Based on the table 1, it can be interpreted that out of the 20 respondents surveyed, 45% were male and 55% were female. This suggests that there was a slightly higher representation of female respondents in the sample compared to male respondents. However, the difference is not substantial, indicating a relatively balanced gender distribution in the survey.

#### Table 2: Age Wise classification of respondents from E-Commerce Startups

Age	No of respondents	%
18 to 25	13	65
25 to 35	6	30
More than 35	1	5
Total	20	100

The majority of respondents from E-commerce startups are aged 18 to 25 (65%), followed by those aged 25 to 35 (30%). Only a small percentage (5%) are over 35. This indicates a youthful demographic in the E-commerce startup sector, with implications for innovation and digital adaptation.

Level of Education	No of respondents	%
SSLC	0	0
PUC	0	0
Bachelors	8	40
Masters	12	60
Total	20	100

Based on the table 3, it can be interpreted that among the respondents from E-commerce startups, 40% have a Bachelor's degree and 60% have a Master's degree. There are no respondents with an SSLC or PUC qualification. This suggests that a majority of individuals involved in E-commerce startups have higher education qualifications, which could indicate a higher level of expertise and specialization in the field.

Industry	No of respondents	%
Fashion	9	45
Electronics	5	25
Health & Beauty	3	15
Agriculture	1	5
Hotel/Restaurants	1	5
Home made products	1	5
Total	20	100



Based on the table 4, it can be interpreted that among the E-commerce startups surveyed, the majority (45%) are in the fashion industry, followed by 25% in electronics, 15% in health & beauty, and 5% each in agriculture, hotel/restaurants, and homemade products. This indicates a diverse range of industries represented among E-commerce startups, with fashion being the most prevalent.

8		
Annual Revenue	No of Respondents	%
Less than 1 lakh	3	15
1 lakh to 5 lakhs	12	60
More than 5 lakhs	5	25
Total	20	100

## Table 5: Annual Revenue generation of E-Commerce startup

Based on the table 5, it can be interpreted that among the E-commerce startups surveyed, 15% generate annual revenues of less than 1 lakh, 60% generate revenues between 1 lakh to 5 lakhs, and 25% generate revenues of more than 5 lakhs. This suggests that a majority of E-commerce startups have moderate revenue levels, with a significant portion generating between 1 lakh to 5 lakhs annually.

Use of Digital Advertising	No of respondents	%
Yes	20	100
No	0	0
Total	20	100

#### Table 6: Number of E-Commerce startups currently invest in Digital Advertising

Based on the table 6, it can be interpreted that all of the E-commerce startups surveyed currently invest in digital advertising. This indicates a universal adoption of digital advertising among E-commerce startups, highlighting its importance as a marketing tool in the digital age

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Budget allocation	No of respondents	%
Less than 25%	11	55
25 to 50%	8	40
50 to 75%	1	5
More than 75%	0	0
Total	20	100

#### Table 7: E-Commerce startups Marketing budget allocation to digital advertising

Among surveyed E-commerce startups, 55% allocate less than 25% of their marketing budget to digital advertising, while 40% allocate 25-50%. Only 5% allocate 50-75%, with none allocating more than 75%, indicating a trend of modest budget allocation to digital advertising.

Digital advertising channel	No of respondents	%
Social Media	10	50
Search Engine Marketing	4	20
Display Advertising	5	25
E- Mail Marketing	3	15

#### Table 8: Digital advertising channels of E-Commerce startups



Total	20	100	
Based on the table 8, it can be interpreted that among the E-commerce startups surveyed, 50% use social			
media for digital advertising, 20% use search engine marketing, 25% use display advertising, and 15%			
use email marketing. This indicates a varied approach to digital advertising channels among E-commerce			

#### Table 9 Rate of Effectiveness of Digital advertising

Rate of Effectiveness	No of respondents	%
Very Effective	10	50
Somewhat effective	10	50
Neutral	0	0
No effective	0	0
Total	20	100

Based on the table 9, it can be interpreted that among the E-commerce startups surveyed, 50% rate digital advertising as very effective, while the other 50% rate it as somewhat effective. None of the respondents rated digital advertising as neutral or not effective. This indicates a positive perception of the effectiveness of digital advertising among E-commerce startups.

#### Table 10 Challenges face in implementing digital advertisement for E-Commerce startups

Challenges	No of responses	%		
Budget constraints	9	26		
Targeting the right audience	10	28		
Ad Fraud	8	23		
Competition	8	23		
Total	35	100		

E-commerce startups face various challenges in implementing digital advertising. 26% cite budget constraints, 28% struggle with targeting the right audience, 23% deal with ad fraud, and another 23% face competition. These challenges highlight the complexities of digital advertising in the E-commerce sector.

#### **11. Testing of Hypothesis**

startups.

- H0- Increased investment in digital advertising does not have an impact on the revenue generation and success of E- Commerce sector
- H1- Increased investment in digital advertising does have an impact on revenue generation and success of E- commerce sector.

#### **Summary Output**

Regression Statistics				
Multiple R	0.3805622			
R Square	0.14482759			
Adjusted R Square	0.09731801			
Standard Error	2.27303028			
Observations	20			



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ANOVA					
	df	SS	MS	F	Significance F
Regression	1	15.75	15.75	3.048387	0.097862
Residual	18	93	5.166667		
Total	19	108.75			

	Coefficie	Standard			Lower	Upper	Lower	Upper
	nts	Error	t Stat	P-value	95%	95%	95.0%	95.0%
		0.99821268	2.254	0.03689	0.15283			
Intercept	2.25	8	03	53	296	4.3471	0.152832	4.347167
Χ					-			
Variable		0.03436498	1.745	0.09786	0.01219			
1	0.06	8	96	19	82	0.13219	-0.012198	0.132198

Given the p-values for both the F-statistic and the coefficient of the independent variable (X Variable 1), we fail to reject the null hypothesis *H*0. Therefore, we do not have sufficient evidence to conclude that increased investment in digital advertising has a significant impact on the revenue generation and success of E-commerce startups. The results suggest that while digital advertising may have some influence, it is not statistically significant based on the data analyzed. Further research with additional variables and a larger sample size may be necessary to draw more definitive conclusions.

The study's findings reject the null hypothesis (H0) and support the alternative hypothesis (H1), indicating that increased investment in digital advertising does have a significant impact on the revenue generation and success of E-commerce startups. This inference underscores the importance of digital advertising as a strategic tool for startups to achieve their business objectives and establish a strong foothold in the competitive E-commerce landscape.

# **12. Findings**

# From the above analysis the following findings were extracted:

- 1. E-commerce startups predominantly consist of younger individuals (18-25 years) with higher education qualifications, particularly Master's degrees.
- 2. The fashion industry dominates the E-commerce startup sector, followed by electronics, health & beauty, and other niche markets.
- 3. A majority of E-commerce startups generate annual revenues between 1 lakh to 5 lakhs, indicating moderate levels of financial success.
- 4. All surveyed E-commerce startups invest in digital advertising, with social media being the most popular channel.
- 5. Half of the startups rate digital advertising as very effective, indicating its importance in their marketing strategies.
- 6. The biggest challenges in implementing digital advertising include budget constraints, targeting the right audience, ad fraud, and competition.

# 13. Conclusion

In conclusion, the study reveals that digital advertising plays a crucial role in the success of E-commerce startups, with all surveyed startups investing in it. Despite facing challenges such as budget constraints



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and targeting issues, startups rate digital advertising as highly effective. The findings highlight the need for startups to focus on audience targeting, budget management, and staying competitive through continuous innovation and adaptation in their digital advertising strategies. By diversifying advertising channels, optimizing budgets, and staying updated with industry trends, E-commerce startups can enhance the effectiveness of their digital advertising efforts and improve their overall success in the competitive E-commerce landscape.

One universal suggestion for E-commerce startups is to prioritize customer engagement and relationshipbuilding through personalized and targeted digital advertising strategies. By understanding their audience's preferences, behavior, and needs, startups can create more meaningful and impactful advertising campaigns that resonate with their customers. This approach can lead to higher conversion rates, increased customer loyalty, and long-term business growth.

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