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Digital Transformation of Indian Democracy: Electoral Reforms and Challenges in the Journey Towards Viksit Bharat 2047 – A Study with Special Reference to East Godavari District, Andhra Pradesh

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Abstract: The rapid advancement of digital technologies has significantly transformed the functioning of Indian democracy, particularly in the electoral process. In this context, the present study examines the impact of digital transformation on electoral reforms and the challenges associated with it in the journey towards Viksit Bharat 2047, with special reference to East Godavari District, Andhra Pradesh. The study focuses on key aspects such as voter awareness of digital electoral tools, perceptions regarding transparency, efficiency, and accessibility, the influence of digital campaigning and social media on voter behavior, and the challenges related to cybersecurity, misinformation, digital divide, and digital literacy.

The study is based on primary data collected from 258 respondents using a structured questionnaire. The data is analyzed using descriptive statistics such as percentages, mean, and standard deviation, along with hypothesis testing through Chi-square analysis. The findings reveal that a majority of respondents are aware of digital technologies like EVMs and VVPAT, and they perceive digital electoral reforms positively in terms of improving transparency, efficiency, and accessibility. The results also indicate that digital campaigning and social media have a significant influence on voter behavior. However, challenges such as lack of digital literacy, misinformation, and digital divide remain critical concerns. The study concludes that while digital transformation has strengthened the democratic process, addressing these challenges is essential to ensure an inclusive, secure, and effective electoral system, thereby contributing to the realization of Viksit Bharat 2047.

Keywords: *Digital Transformation, Indian Democracy, Electoral Reforms, Digital Elections, Voter Behavior, Social Media, EVM, VVPAT, Digital Literacy, Cybersecurity, Misinformation, Digital Divide, Viksit Bharat 2047.*

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I. INTRODUCTION

India, as the world's largest democracy, has been undergoing significant changes in its electoral processes with the rapid advancement of digital technologies. The integration of Information and Communication Technology (ICT) into elections—through tools such as Electronic Voting Machines (EVMs), Voter Verifiable Paper Audit Trail (VVPAT), online voter registration, and digital campaigning—has transformed the way democracy functions. These developments have improved the efficiency, transparency, and accessibility of elections, making the democratic process more inclusive and participatory. In recent years, digital platforms and social media have also emerged as powerful tools for political communication, influencing voter awareness and engagement.

In the context of India's vision of Viksit Bharat 2047, digital transformation plays a crucial role in strengthening democratic institutions and ensuring good governance. However, the increasing use of digital technologies in elections also brings several challenges, such as cybersecurity

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threats, misinformation, data privacy concerns, and the digital divide among voters. These issues raise important questions about the reliability and inclusiveness of digital democracy, particularly at the grassroots level.

Against this background, the present study focuses on examining the digital transformation of Indian democracy with special reference to East Godavari District, Andhra Pradesh. The study aims to assess the level of awareness among voters regarding digital electoral tools, analyze their perceptions of digital reforms, identify key challenges, and evaluate the impact of digital campaigning on voter behavior. By addressing these aspects, the study seeks to understand how digital electoral reforms are shaping democratic processes and their role in achieving the vision of Viksit Bharat 2047.

II. REVIEW OF LITERATURE

The digital transformation of democracy has become a major area of research in recent years, particularly with the increasing use of information and communication technologies in electoral processes. The World Bank (**2016**) highlighted that digital technologies play a crucial role in improving governance and electoral systems by enhancing transparency, accountability, and citizen participation. The report emphasized that digital tools can streamline electoral administration and improve service delivery, especially in developing countries like India.

Kirchgaessner (2017) examined the influence of digital media on elections and found that online platforms have become central to political communication. The study pointed out that while digital platforms enhance political engagement, they also increase the risk of misinformation, manipulation, and biased content, which can influence voter behavior.

Agarwal and Mittal (2018) analyzed the role of social media in Indian elections and concluded that platforms like Facebook and Twitter have significantly increased political awareness and voter participation. However, the study also highlighted challenges such as fake news and lack of regulation in digital campaigning.

The Election Commission of India (**2019**) reported that the introduction of Electronic Voting Machines (EVMs) and Voter Verifiable Paper Audit Trail (VVPAT) has improved the efficiency, speed, and transparency of elections in India. The report also emphasized the importance of voter awareness programs to increase trust in digital electoral systems.

Suri (2019) studied voter behavior in India and found that digital campaigning has a strong influence on voters, particularly among the youth and urban population. The study suggested that digital platforms are becoming key tools for political communication and voter mobilization.

Banerjee (2020) examined the challenges associated with digital democracy in India, focusing on issues such as misinformation, cybersecurity threats, and data privacy. The study emphasized the need for stronger regulatory frameworks and digital literacy to ensure fair elections. The United Nations (**2020**) highlighted that digital technologies can strengthen democratic governance by improving transparency and citizen participation. However, it also warned about digital exclusion and cyber risks, particularly in developing countries.

Sharma (2020) focused on cybersecurity concerns in digital elections and stressed that protecting electoral systems from hacking and data breaches is essential for maintaining public trust in democracy. **Kumar and Singh (2021)** studied the digital divide in India and found that unequal access to technology, especially in rural areas, limits the effectiveness of digital electoral reforms and affects inclusiveness.

Gupta and Arora (2021) emphasized that e-governance and ICT play an important role in improving transparency, accountability, and efficiency in democratic systems, including electoral processes. The International Institute for Democracy and Electoral Assistance (**2021**) analyzed global trends in digital elections and highlighted that while digital technologies improve electoral efficiency, they also introduce risks such as cyber threats and misinformation.

Verma (2023) analyzed the impact of digital platforms on Indian democracy and concluded that while digital tools enhance participation, they also increase the spread of misinformation and polarization among voters.

Recent studies (**2024–2025**) suggest that emerging technologies such as artificial intelligence, big data analytics, and data-driven campaigning are transforming electoral processes by enabling targeted communication and real-time engagement with voters. However, these technologies also raise concerns regarding ethical use, data privacy, and manipulation of voter preferences.

The above studies indicate that digital transformation has significantly improved the efficiency, transparency, and participation in electoral processes. At the same time, challenges such as cybersecurity risks, misinformation, digital divide, and data privacy concerns remain critical issues. Moreover, most studies focus on national-level analysis, with limited research at the regional or district level. Therefore, the present study attempts to fill this gap by analyzing digital electoral reforms with special reference to East Godavari District, Andhra Pradesh, in the context of Viksit Bharat 2047.

- *Research Gap*

The existing literature mainly focuses on digital transformation in elections at the national or global level, highlighting the benefits and challenges of technologies like EVMs, social media, and e-governance. However, there is a lack of studies at the **local or district level**, especially in areas like East Godavari District, Andhra Pradesh, regarding voter awareness, digital literacy, and the impact of digital electoral reforms. In addition, limited research is based on primary data to understand voter perceptions and behavior. Therefore, this

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study aims to fill this gap by analyzing digital democracy at the grassroots level and examining its role in achieving the vision of Viksit Bharat 2047.

➢ *Statement of the Problem*

The increasing use of digital technologies in the electoral process has significantly transformed Indian democracy by improving efficiency, transparency, and accessibility. Tools such as Electronic Voting Machines (EVMs), Voter Verifiable Paper Audit Trail (VVPAT), online voter services, and social media campaigning have modernized elections. However, these developments have also created challenges such as cybersecurity risks, spread of misinformation, data privacy concerns, and the digital divide among voters. In regions like East Godavari District, Andhra Pradesh, differences in digital access and literacy may influence the effectiveness and acceptance of these digital electoral reforms.

Despite the growing importance of digital democracy, there is limited understanding of how these technological changes affect voter awareness, behavior, and trust in the electoral system at the local level. Therefore, this study aims to examine the impact of digital transformation on elections, identify key challenges, and assess whether digital electoral reforms can support a transparent, inclusive, and effective democratic system in the journey towards Viksit Bharat 2047, with special reference to East Godavari District, Andhra Pradesh.

➢ *Need for the Study*

The need for this study arises from the increasing use of digital technologies in the electoral process of India, which has transformed the way democracy functions. Tools such as Electronic Voting Machines (EVMs), VVPAT, online voter services, and social media campaigning have improved the efficiency and transparency of elections. However, these developments have also introduced challenges such as cybersecurity risks, misinformation, data privacy concerns, and the digital divide. In regions like East Godavari District, Andhra Pradesh, variations in digital access and literacy may affect the effective use and acceptance of these technologies among voters.

Furthermore, there is a need to understand how digital transformation influences voter awareness, participation, and trust in the electoral system at the local level. As India moves towards achieving the vision of Viksit Bharat 2047, it is important to evaluate whether digital electoral reforms are contributing to a secure, inclusive, and effective democratic system. Therefore, this study is necessary to analyze the opportunities and challenges of digital democracy with special reference to East Godavari District, Andhra Pradesh.

➢ *Objectives of the Study*

- To assess the level of awareness among voters regarding digital technologies used in the electoral process such as EVMs, VVPAT, and online voter services.
- To examine the perception of respondents toward digital electoral reforms in terms of transparency, efficiency, and accessibility.
- To analyze the major challenges associated with digital elections including cybersecurity risks, misinformation, and digital divide.
- To evaluate the impact of digital campaigning and social media on voter behavior and electoral outcomes.
- To study public opinion on the future of digital democracy in India and its role in achieving the vision of Viksit Bharat 2047.

III. RESEARCH METHODOLOGY

The present study adopts a descriptive and analytical research design to examine the digital transformation of Indian democracy with special reference to East Godavari District, Andhra Pradesh. The study is primarily based on primary data collected from respondents using a structured questionnaire designed to measure awareness, perceptions, and challenges related to digital electoral reforms. The research focuses on key aspects such as the use of digital technologies in elections, voter behavior, and the impact of digital campaigning. In addition, limited secondary data has been used from government reports, research articles, and official sources to support the analysis.

The sampling method adopted for the study is convenience sampling, and the sample consists of voters from different demographic backgrounds in East Godavari District. The collected data is analyzed using simple statistical tools such as percentages, averages, and charts to understand trends and patterns. Hypotheses are tested using appropriate statistical techniques such as Chi-square test to examine the relationship between digital technologies and electoral transparency, as well as the impact of digital campaigning on voter behavior. The study aims to provide meaningful insights into the role of digital transformation in strengthening democracy and addressing challenges in the journey towards Viksit Bharat 2047.

➢ *Hypotheses of the Study*

- H_{01}: There is no significant relationship between the use of digital technologies and the transparency and efficiency of the electoral process in India, with special reference to East Godavari District, Andhra Pradesh.
- H_{02}: Digital campaigning and social media have no significant impact on voter behavior in India, with special reference to East Godavari District, Andhra Pradesh.

➢ *Scope of the Study*

The present study focuses on analyzing the role of digital transformation in the electoral process of India, with special reference to East Godavari District, Andhra Pradesh. It covers key aspects such as the use of digital technologies like EVMs, VVPAT, online voter services, and social media in elections. The study also examines voter awareness, perceptions, and challenges related to digital democracy, including issues such as cybersecurity, misinformation, and the digital divide. The scope is limited to primary data collected from respondents in East Godavari District through a structured questionnaire. It mainly analyzes the impact of

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digital electoral reforms on voter behavior and democratic participation in the context of achieving the vision of Viksit Bharat 2047.

➢ *Limitations of the Study*

- The study is limited to East Godavari District, Andhra Pradesh, and the findings may not be applicable to other regions.
- The study is based on primary data collected from a limited number of respondents, which may not represent the entire population.
- The convenience sampling method is used, which may lead to sampling bias.
- The study relies on responses of participants, which may be influenced by personal opinions or lack of awareness.
- The study follows a descriptive and analytical approach and does not include advanced statistical or experimental analysis.

IV. DATA ANALYSIS & INTERPRETATION

The data analysis and interpretation section presents the analysis of primary data collected from 258 respondents in East Godavari District, Andhra Pradesh, through a structured questionnaire. The data is organized and analysed using statistical tools such as percentages, mean, and standard deviation to understand awareness, perception, and challenges related to digital electoral reforms. In addition, the Chi-square test is applied to examine the relationship between variables and to test the hypotheses. The results are interpreted systematically to draw meaningful conclusions about the role of digital transformation in the electoral process.

➢ *Section A: Demographic Profile*

Table 1 Demographic Profile

Demographic Variables		Frequency	Percentage
Gender	Male	142	55.04%
	Female	116	44.96%
	Total	**258**	**100%**
Age	18 - 25	37	14.34%
	26 – 35	78	30.23%
	36 – 45	62	24.03%
	46 & above	81	31.39%
	Total	**258**	**100%**
Educational Background	Intermediate	51	19.76%
	Graduate	112	43.41%
	Postgraduate	67	25.97%
	Ph.D	12	4.65%
	Others	16	6.20%
	Total	**258**	**100%**
Occupation	Student	47	18.22%
	Employee	90	34.88%
	Business	65	25.19%
	Farmer	42	16.28%
	Ohters	14	5.43%
	Total	**258**	**100%**
Area of Residence	Rural	94	36.43%
	Urban	164	63.56%
	Total	**258**	**100%**

Source: Primary Data

The demographic profile of the respondents reveals that out of a total of 258 participants, 55.04% are male and 44.96% are female, indicating a fairly balanced representation with a slight predominance of male respondents. In terms of age distribution, the largest proportion of respondents belongs to the 46 years and above category (31.39%), followed by the 26–35 age group (30.23%), while the 18–25 age group (14.34%) represents the lowest share. This indicates that the study mainly includes middle-aged and older individuals who are likely to have more experience with electoral processes. With regard to education, a majority of respondents are graduates (43.41%), followed by postgraduates (25.97%) and intermediate- level respondents (19.76%), while a smaller percentage comprises Ph.D holders (4.65%) and others (6.20%). This suggests that the sample is relatively well educated, which may contribute to better awareness and understanding of digital electoral systems.

Further, the occupational distribution shows that employees (34.88%) constitute the largest group, followed by those engaged in business (25.19%), students (18.22%), and

ISSN No:-2456-2165 https://doi.org/10.38124/ijisrt/26mar631

farmers (16.28%), indicating a diverse representation of professions. A small percentage (5.43%) falls under other occupations. In terms of area of residence, a majority of respondents are from urban areas (63.56%), while 36.43% belong to rural areas. This indicates a higher representation of urban respondents, who are generally more exposed to digital technologies. Overall, the data suggests that the sample consists of relatively educated and urban-dominated respondents, which may positively influence awareness and acceptance of digital electoral reforms. However, the lower representation of rural respondents may indicate possible variations in digital access and literacy, highlighting the importance of addressing the digital divide in the context of strengthening digital democracy.

- *Section B: Awareness of Digital Democracy*

Table 2 Are You Aware of Digital Technologies Used in Elections?

	Frequency	Percentage
Yes	198	76.75%
No	60	23.25
Total	**258**	**100%**

Source: Primary Data

The data shows that among the 258 respondents, the majority have a moderate level of awareness (43.41%) regarding digital technologies used in elections. This is followed by 30.23% of respondents who have a high level of awareness, while 26.36% have a low level of awareness.

This indicates that although a considerable number of respondents are familiar with digital electoral tools, most possess only a moderate level of understanding rather than a high level. It suggests that while digital technologies are reaching the public, there is still a need to enhance awareness and knowledge through education and awareness programs to ensure more effective participation in digital democracy.

Table 3 Are You Aware of Digital Technologies Used in Elections (EVMs, VVPAT, Online Voter Services)?

	Frequency	Percentage
Low	68	26.36%
Moderate	112	43.41%
High	78	30.23%
Total	**258**	**100%**

Source: Primary Data

The data shows that among the 258 respondents, the majority have a moderate level of awareness (43.41%) regarding digital technologies used in elections. This is followed by 30.23% of respondents who have a high level of awareness, while 26.36% have a low level of awareness.

This suggests that although a considerable number of respondents are familiar with digital electoral tools, most possess only a moderate level of understanding, rather than a high one. It suggests that while digital technologies are reaching the public, there is still a need to enhance awareness and knowledge through education and awareness programs to ensure more effective participation in digital democracy.

Table 4 Which of the Following Digital Tools are You Familiar With?

Digital Tools	Frequency	Percentage
EVM	208	80.62%
VVPAT	186	72.09%
Online Voter Registration	138	53.49%
Election Apps/Websites	121	48.83%

Source: Primary Data

The data reveals that among the digital tools used in elections, EVMs have the highest level of awareness with 80.62% of respondents, followed by VVPAT with 72.09% awareness. This indicates that most respondents are familiar with core voting technologies that are directly used during the election process. In contrast, awareness of online voter registration (53.49%) and election apps/websites (48.83%) is comparatively lower.

This suggests that while respondents are well aware of basic electoral technologies like EVMs and VVPAT, awareness of digital services and online platforms is relatively limited. It highlights the need to improve awareness and accessibility of digital election services, especially online tools, to promote greater participation and strengthen digital democracy.

- *Section C: Perception of Digital Electoral Reforms*

Table 5 Perception of Digital Electoral Reforms

Statement	Mean	SD
Digital technologies have improved transparency in elections.	**3.64**	**1.14**
EVMs make the voting process more efficient.	**3.56**	**1.16**
Online voter services have increased accessibility.	**3.52**	**1.15**
Digital campaigning has improved voter awareness.	**3.42**	**1.19**
Technology has reduced electoral malpractices.	**3.52**	**1.26**

Source: Primary Data

The above table presents the mean and standard deviation values for respondents' perceptions regarding digital electoral reforms. The mean values for all statements are above 3, indicating an overall **positive perception** of digital technologies in the electoral process. Among the statements, "Digital technologies have improved transparency in elections" recorded the highest mean value (3.64), suggesting that respondents strongly believe that technology enhances transparency. Similarly, EVMs improving efficiency (3.56) and online voter services increasing accessibility (3.52) also show favorable responses.

Further, the statement "Technology has reduced electoral malpractices" also recorded a mean value of 3.52, indicating agreement among respondents, while "Digital campaigning has improved voter awareness" has the lowest

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mean (3.42), though still above the neutral level. The standard deviation values, ranging from 1.14 to 1.26, indicate a **moderate level of variation** in responses. Overall, the analysis suggests that respondents in East Godavari District hold a positive view of digital electoral reforms in terms of transparency, efficiency, accessibility, and reducing malpractices, although opinions vary slightly across different aspects.

➢ *Section D: Challenges in Digital Elections*

Table 6 Do You Think Digital Elections Face Security Risks (Hacking, Data Breaches)?

	Frequency	Percentage
Yes	65	25.19%
No	115	44.57%
Not Sure	78	30.23%
Total	**258**	**100%**

Source: Primary Data

The above table presents respondents' opinions on whether digital elections face security risks such as hacking and data breaches. Out of 258 respondents, 115 (44.57%) believe that digital elections do not face security risks, while 65 respondents (25.19%) feel that such risks do exist. Additionally, a considerable proportion of respondents, 78 (30.23%), are not sure about the presence of security risks.

This distribution indicates that although a majority of respondents perceive digital electoral systems as relatively secure, a significant percentage either believe risks exist or are uncertain about security aspects. This reflects a mixed level of confidence among respondents regarding the safety of digital elections and highlights the need for greater awareness and assurance measures to build trust in digital electoral systems.

Table 7 Rate the Following Challenges

Challenges	Mean	SD
Cybersecurity threats	**2.74**	**1.20**
Misinformation on social media	**2.91**	**1.12**
Digital divide	**2.76**	**1.20**
Lack of digital literacy	**3.10**	**1.24**

Source: Primary Data

The above table presents the mean and standard deviation values for major challenges associated with digital elections. The mean scores indicate that "Lack of digital literacy" (3.10) is perceived as the most significant challenge among respondents, followed by misinformation on social media (2.91). Other challenges such as digital divide (2.76) and cybersecurity threats (2.74) have relatively lower mean values, indicating comparatively lesser concern among respondents.

The standard deviation values range from 1.12 to 1.24, showing a moderate variation in responses. Overall, the analysis suggests that while all listed challenges are relevant, digital literacy emerges as the key concern, highlighting the need for awareness programs and digital education to ensure effective participation in digital democracy.

Table 8 Do You Trust the Security of EVMs?

	Frequency	Percentage
Yes	143	55.43%
No	47	18.23%
Not Sure	68	26.36%
Total	**258**	**100%**

Source: Primary Data

The above table shows respondents' opinions regarding the security of Electronic Voting Machines (EVMs). Out of 258 respondents, a majority of 143 respondents (55.43%) trust the security of EVMs, while 47 respondents (18.23%) do not trust them. Additionally, 68 respondents (26.36%) are not sure about the security of EVMs.

This indicates that more than half of the respondents have confidence in the security of EVMs, reflecting a generally positive perception of electronic voting systems. However, the presence of a considerable proportion of respondents who either lack trust or are uncertain suggests that concerns about EVM security still exist, highlighting the need for greater transparency, awareness, and confidence-building measures to strengthen trust in digital electoral systems.

➢ *Section E: Digital Campaigning & Voter Behaviour*

Table 9 Do You Follow Election Campaigns on Social Media?

	Frequency	Percentage
Yes	141	54.65%
No	117	45.35%
Total	**258**	**100%**

Source: Primary Data

The above table shows respondents' opinions regarding the security of Electronic Voting Machines (EVMs). Out of 258 respondents, a majority of 143 respondents (55.43%) trust the security of EVMs, while 47 respondents (18.23%) do not trust them. Additionally, 68 respondents (26.36%) are not sure about the security of EVMs.

This indicates that more than half of the respondents have confidence in the security of EVMs, reflecting a generally positive perception of electronic voting systems. However, the presence of a considerable proportion of respondents who either lack trust or are uncertain suggests that concerns about EVM security still exist, highlighting the need for greater transparency, awareness, and confidence-building measures to strengthen trust in digital electoral systems.

ISSN No:-2456-2165 https://doi.org/10.38124/ijisrt/26mar631

Table 10. Digital Electoral Systems

Statement	Mean	SD
Social media influences voting behaviour.	**3.47**	**1.19**
Digital campaigning affects voter decisions.	**3.54**	**1.14**
Fake news influences election outcomes.	**3.37**	**1.18**

Source: Primary Data

The above table presents the mean and standard deviation values regarding the influence of digital campaigning and social media on voter behaviour. All the mean values are above 3, indicating that respondents generally agree that digital platforms have an impact on electoral behaviour. Among the statements, "Digital campaigning affects voter decisions" has the highest mean value (3.54), suggesting that respondents strongly perceive digital campaigns as influential in shaping voting decisions. This is followed by "Social media influences voting behaviour" (3.47) and "Fake news influences election outcomes" (3.37).

The standard deviation values range between 1.14 and 1.19, indicating a moderate level of variation in responses. Overall, the analysis shows that respondents acknowledge the significant role of digital media in influencing voter behaviour and election outcomes, highlighting the growing importance of digital platforms in modern electoral processes.

- *Section F: Future of Digital Democracy*

Table 11 Do You Support Online Voting in India?

	Frequency	Percentage
Yes	148	57.36%
No	39	15.12%
Not Sure	71	27.52%
Total	**258**	**100%**

Source: Primary Data

The above table presents respondents' opinions on supporting online voting in India. Out of 258 respondents, a majority of 148 respondents (57.36%) support online voting, while 39 respondents (15.12%) do not support it. Additionally, 71 respondents (27.52%) are not sure about adopting online voting systems.

This indicates that more than half of the respondents are in favour of introducing online voting, reflecting a positive attitude toward digital transformation in the electoral process. However, a considerable proportion of respondents are either uncertain or opposed, which may be due to concerns related to security, privacy, and reliability. Overall, the findings suggest that while there is growing acceptance of online voting, efforts are needed to build trust and address concerns to ensure wider adoption.

Table 12 Build Trust and Address Concerns

Statement	Mean	SD
Digital transformation will strengthen Indian democracy.	**3.48**	**1.14**

Source: Primary Data

The above table presents the mean and standard deviation for the statement "Digital transformation will strengthen Indian democracy." The mean value of 3.48 indicates that respondents generally agree that digital transformation has a positive role in strengthening democratic processes in India. This reflects a favorable perception towards the future of digital democracy.

The standard deviation value of 1.14 indicates a moderate level of variation in responses, suggesting that while most respondents share a positive opinion, some differences in views still exist. Overall, the findings suggest that respondents believe digital transformation will play a significant role in enhancing democracy and supporting the vision of Viksit Bharat 2047.

Table 13 Digital Reforms will Help Achieve Viksit Bharat 2047

	Frequency	Percentage
Yes	156	60.46%
No	43	16.67%
Not Sure	59	22.87%
Total	**258**	**100%**

Source: Primary Data

The above table presents respondents' opinions on whether digital reforms will help achieve the vision of Viksit Bharat 2047. Out of 258 respondents, a majority of 156 respondents (60.46%) believe that digital reforms will contribute to achieving Viksit Bharat, while 43 respondents (16.67%) do not agree with this view. Additionally, 59 respondents (22.87%) are not sure about the role of digital reforms.

This indicates that a significant proportion of respondents have a positive outlook on the role of digital reforms in national development, reflecting confidence in digital transformation as a driver of progress. However, the presence of some uncertainty and disagreement suggests the need for increased awareness, effective implementation, and trust-building measures. Overall, the findings highlight that digital reforms are widely perceived as an important factor in achieving the vision of Viksit Bharat 2047.

- *Hypothesis Testing*

H_{01}: There is no significant relationship between the use of digital technologies and the transparency and efficiency of the electoral process in India, with special reference to East Godavari District, Andhra Pradesh.

ISSN No:-2456-2165 https://doi.org/10.38124/ijisrt/26mar631

A Chi-square test was applied to examine the relationship between awareness of digital technologies and perception of transparency and efficiency in elections.

Table 14 Chi-Square Result

Test	Value	df	Sig. (p-value)
Pearson Chi-Square	18.72	4	0.001
N of Cases	258		

The Chi-square test was conducted to examine the relationship between awareness of digital technologies and perception of transparency and efficiency in elections. The cross-tabulation results show that respondents with higher levels of awareness tend to have a more positive perception of digital electoral reforms. The calculated Chi-square value is 18.72 with 4 degrees of freedom, and the significance value ($p = 0.001$) is less than 0.05.

➢ *Decision*

- p-value = **0.001 < 0.05**

Reject H_{01}

There is a significant relationship between awareness of digital technologies and perception of transparency and efficiency in elections with special reference to East Godavari District.

- H_{02}: Digital campaigning and social media have no significant impact on voter behaviour in India, with special reference to East Godavari District, Andhra Pradesh.

Table 15 Chi-Square Test

Test	Value	df	Sig. (p-value)
Pearson Chi-Square	22.84	4	0.000
N of Cases	258		

The Chi-square test was conducted to examine the relationship between digital campaigning, social media influence, and voter behaviour. The results indicate that respondents who agree that social media influences elections also tend to agree that it affects voter decisions. The calculated Chi-square value (**22.84**) with **4 degrees of freedom** and **p-value = 0.000 (< 0.05)** shows a statistically significant relationship.

➢ *Decision*

- $p < 0.05$

➞ **Reject H_{02}**

There is a significant impact of digital campaigning and social media on voter behaviour in India, with special reference to East Godavari District, Andhra Pradesh.

V. RESULTS AND DISCUSSION

The present study examines the impact of digital transformation on electoral processes with special reference to East Godavari District, Andhra Pradesh. The analysis of primary data reveals that a majority of respondents are aware of digital technologies such as EVMs, VVPAT, and online voter services, although most possess a moderate level of awareness. The findings indicate that respondents have a positive perception of digital electoral reforms, as reflected in mean values above the neutral level for all statements related to transparency, efficiency, accessibility, and reduction of electoral malpractices. This suggests that digital technologies are generally viewed as enhancing the quality and effectiveness of the electoral process.

To test **H_{01}**, a Chi-square test was conducted to examine the relationship between awareness of digital technologies and perception of transparency and efficiency in elections. The results of the test ($\chi^2 = 18.72$, $df = 4$, $p < 0.05$) indicate a statistically significant relationship between the variables. Respondents with higher awareness levels tend to have a more positive perception of digital electoral reforms. Hence, the null hypothesis is rejected, and it is concluded that digital technologies significantly contribute to improving transparency and efficiency in the electoral process.

Further, the study analysed the challenges associated with digital elections. The results show that lack of digital literacy is the most significant challenge, followed by misinformation on social media, digital divide, and cybersecurity concerns. Although a majority of respondents trust the security of EVMs, a considerable proportion remain uncertain, indicating the need for improved awareness and trust-building measures.

To test **H_{02}**, another Chi-square test was applied to examine the impact of digital campaigning and social media on voter behaviour. The results ($\chi^2 = 22.84$, $df = 4$, $p < 0.05$) reveal a significant relationship between digital media influence and voter behaviour. Respondents generally agree that social media and digital campaigning play an important role in shaping voting decisions and influencing electoral outcomes. Therefore, the null hypothesis is rejected, confirming that digital campaigning and social media significantly affect voter behaviour.

The findings also indicate that a majority of respondents support online voting and believe that digital reforms will contribute to achieving the vision of Viksit Bharat 2047. Overall, the study highlights that digital transformation has positively influenced Indian democracy by enhancing transparency, efficiency, and participation. However, addressing challenges such as digital literacy, misinformation, and infrastructure gaps is essential to ensure an inclusive and secure digital electoral system.

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VI. SUGGESTIONS

Based on the findings, it is suggested that efforts should be made to improve digital literacy among citizens, especially in rural areas, to enhance participation in digital electoral processes. Awareness programs should be conducted to educate voters about online voter services and digital tools, as awareness in these areas is relatively low. The government should also strengthen cybersecurity measures and ensure transparency in electoral technologies to build greater trust among voters.

Further, strict regulations and monitoring mechanisms should be implemented to control misinformation and fake news on social media platforms during elections. Initiatives such as fact-checking systems and digital awareness campaigns can help in reducing the negative impact of misleading information. Additionally, steps should be taken to bridge the digital divide by improving digital infrastructure and access in rural areas. Promoting responsible digital campaigning, enhancing voter confidence, and encouraging technological advancements will contribute to strengthening digital democracy and support the achievement of Viksit Bharat 2047.

VII. CONCLUSION

The present study concludes that digital transformation has significantly influenced the functioning of Indian democracy, particularly in the electoral process, with special reference to East Godavari District, Andhra Pradesh. The findings reveal that voters have a generally positive perception of digital electoral reforms, recognizing their role in enhancing transparency, efficiency, and accessibility. The increasing awareness of digital tools such as EVMs, VVPAT, and online voter services, along with the growing influence of digital campaigning and social media, highlights the importance of technology in shaping modern electoral practices.

However, the study also identifies key challenges such as lack of digital literacy, misinformation, digital divide, and concerns related to cybersecurity. While a majority of respondents trust digital electoral systems and support initiatives like online voting, a significant proportion remain uncertain, indicating the need for greater awareness and confidence-building measures. Overall, the study concludes that digital transformation has the potential to strengthen democratic processes and contribute to the realization of Viksit Bharat 2047, provided that existing challenges are effectively addressed through inclusive policies, improved infrastructure, and enhanced digital education.

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