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"The Role Of Technology In Expanding The Reach Of Banking Yojanas"

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ABSTRACT

This research paper investigates the transformative role of technology in extending the reach and impact of banking voianas (schemes) initiated by the Government of India By employing a case study approach, the paper examines prominent voianas such as Pradhan Mantri Jan Dhan Yojana (PMJDY), Pradhan Mantri Mudra Yojana (PMMY), and Direct Benefit Transfer (DRT) scheme, elucidating the integration of technology-driven solutions in their implementation. Through a review of literature, policy documents, and empirical data, the paper analyzes the adoption of digital banking infrastructure, biometric authentication systems, mobile applications, and Aadhaar-enabled payment systems (AFPS) to enhance accessibility efficiency and transparency in service delivery. Furthermore, it explores the impact of these technological interventions on expanding financial inclusion, reducing leakages, and promoting socio-economic empowerment among marginalized populations. The paper also discusses challenges such as cybersecurity risks, digital divide, and privacy concerns associated with the digitization of banking volanas, proposing strategies for mitigating these challenges and maximizing the benefits of technology-enabled financial inclusion.

Keywords: Technology, Banking Yojanas, Financial Access, Financial Literacy.

1. Introduction

In today's rapidly evolving digital landscape, technology plays a pivotal role in reshaping traditional paradigms across various sectors, including finance. Within the realm of banking yojanas, or schemes aimed at promoting financial inclusion, technology has emerged as a powerful catalyst for expanding access to banking services and fostering socio-economic development. These yojanas, often spearheaded by governments, seek to bridge the gap between the unbanked or underbanked populations and formal financial institutions, thereby promoting inclusive growth and empowerment.

This research paper aims to explore the critical role that technology plays in enhancing the reach and effectiveness of banking yojanas. By leveraging digital innovations such as mobile banking, biometric authentication, and blockchain technology, governments and financial institutions can transcend geographical barriers and deliver financial services to remote and marginalized communities. Moreover, technology-driven solutions enable streamlined processes, reduced transaction costs, and enhanced security, thus facilitating greater participation in the formal financial system.

2. Concept- (for Banking vojnas)

- **1.Technological Enablers**: Investigating the various technological solutions utilized within banking yojanas, including digital payment platforms, biometric authentication systems, and blockchain technology, to facilitate seamless access to financial services.
- **2.Enhanced Accessibility**: Exploring how technology-driven interventions help overcome geographical constraints and improve access to banking services for remote and marginalized communities, thereby promoting financial inclusion.
- **3.Efficiency and Transparency**: Examining how technology streamlines administrative processes, reduces transaction costs, and enhances transparency within banking vojanas, fostering trust and accountability among stakeholders.
- **4.Impact Assessment:** Assessing the impact of technology-enabled banking vojanas on key metrics such as account penetration, savings mobilization, credit accessibility, and poverty alleviation, through empirical research and case studies.
- **5.Challenges and Opportunities**: Identifying the challenges and opportunities associated with the integration of technology into banking yojanas, including issues related to cybersecurity, digital literacy, regulatory compliance, and infrastructure constraints.
- **6.Policy Implications:** Discussing the policy implications of leveraging technology to expand the reach of banking vojanas, including the need for supportive regulatory frameworks, strategic partnerships, and capacitybuilding initiatives to maximize the benefits of digital financial inclusion.

3. Literature Review –

- 1.Gupta et al., 2016:-Many studies emphasize the critical role of technology, particularly mobile banking and digital payment platforms, in advancing financial inclusion (Gupta et al., 2016). Researchers have noted that technology can overcome geographical barriers, making banking services accessible to remote and rural areas (World Bank, 2014).
- 2. Garg, 2016; The Aadhaar initiative in India, which provides a unique identification number to citizens, has been instrumental in expanding the reach of banking services by simplifying the account opening process (Garg, 2016). Aadhaar-based biometric authentication has improved the efficiency and security of transactions, especially for those without traditional forms of identification (Chakravorty & Dar, 2016).
- **3.Mas & Radcliffe, 2010;**-Research shows that mobile banking, coupled with agent banking models, has significantly expanded banking services to unbanked populations in various countries (Mas & Radcliffe, 2010). The adoption of mobile money services, such as M-Pesa in Kenya, has been a game-changer in increasing financial inclusion (Jack & Suri, 2014).
- **4.Kshetri, 2018;-.**Some studies highlight the challenges related to technology adoption in expanding banking services, such as concerns about data privacy and security (Kshetri, 2018). The digital divide remains a concern, as not everyone has access to smartphones or reliable internet connectivity (ITU, 2019).
- **5.Goval et al., 2018:** Governments have played a pivotal role in leveraging technology to expand the reach of banking yojanas. India's Pradhan Mantri Jan Dhan Yojana (PMJDY) is a notable example (GoI, 2014). Studies

have examined the effectiveness and impact of such government-led initiatives in promoting financial inclusion (Goval et al., 2018).

- **6.Allen et al., 2016**;-Fintech startups have introduced innovative solutions to reach unbanked and underbanked populations, such as peer-to-peer lending platforms and microfinance apps (Allen et al., 2016). Researchers have explored the implications of these innovations on financial inclusion and traditional banking models.
- 7. DonouAdonsou et al., 2019; There is a need for further research to assess the long-term sustainability of technologydriven financial inclusion efforts and their impact on economic development (DonouAdonsou et al., 2019). The potential role of emerging technologies like blockchain and artificial intelligence in expanding banking yojanas remains an area for future exploration.
- 8. Batra & Gangopadhyay, 2019;-Biometric technology, such as fingerprint and iris scans, has revolutionized Know Your Customer (KYC) processes. Research (e.g., Batra & Gangopadhyay, 2019) highlights how biometric identification has streamlined the onboarding of customers in Banking Yojanas, reducing fraud and ensuring that beneficiaries are genuinely eligible for government subsidies and financial services.
- 9. Narain et al., 2018;- (UPI) in India, has significantly contributed to the success of Banking Yojanas (Narain et al., 2018). These systems have enabled seamless and instant fund transfers, bill payments, and merchant transactions, fostering financial inclusion by providing accessible and affordable payment solutions to the underserved.
- 10. Agrawal et al., 2020;-The use of big data and advanced analytics has allowed banks and financial institutions to assess creditworthiness more accurately. By analyzing borrowers' financial behavior and transaction history, financial institutions can make informed lending decisions (Agrawal et al., 2020). This has enabled the inclusion of previously marginalized populations in the formal credit sector.

4. Research Methodology

4.1 Objectives of the Study:-

Assess the Current State of Banking Yojanas Examine the Technological Infrastructure Assess the Role of FinTech Impact on Financial Inclusion Forecast Future Trends

4.2 Research Type: This study will primarily be quantitative, relying on numerical data to analyze the impact of technology on banking Yojanas. However, some qualitative data may be collected through interviews or surveys to gain insights into challenges and opportunities.

Data Sources: Data will be collected from government reports, financial institutions, and academic sources. Additionally, primary data may be collected through surveys and interviews with beneficiaries and officials involved in banking Yojanas.

Sampling: A stratified random sampling method will be used to ensure representation from various regions and demographics.

Data Collection Period: The data collection process will span two weeks to capture seasonal variations and trends.

Data Collection Methods:

Surveys: Conduct surveys among beneficiaries and non-beneficiaries of banking Yojanas to assess their awareness, accessibility, and satisfaction with the services.

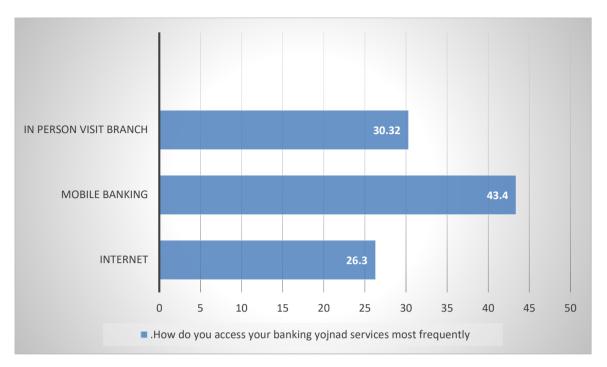
Observations: Visit selected regions to observe the practical implementation of technology in banking Yojanas.

Data Analysis Techniques:

Descriptive Statistics: Analyze and present basic statistics about the reach and impact of banking Yojanas.

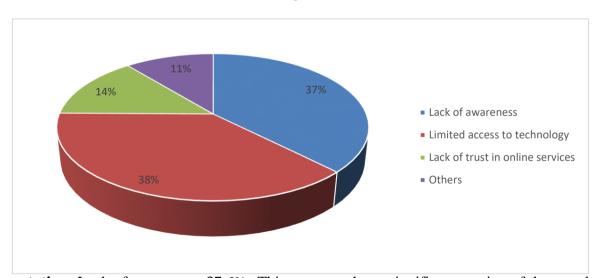
5. Data Analysis





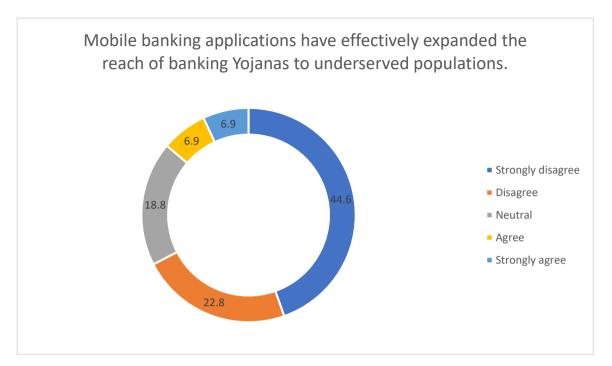
Interpretation: Out of total respondent the significant people believe that content contribution to mobile banking it creates a passive audience for a banking yojnas.

CHART 2



Interpretation: Lack of awareness: 37.6%;-This suggests that a significant portion of the population may not be aware of the banking Yojnas available to them. Limited access to technology: -37.6%:This indicates that a considerable number of individuals may face barriers in accessing banking Yojnas due to limited technological resources or infrastructure. Lack of trust in online services: 13.9%;-A portion of the population may be hesitant to use online banking services due to concerns about security, privacy, or unfamiliarity with digital transactions

CHART 3



Interpretation: Strongly disagree: 44.6% of respondents strongly disagree that mobile banking applications have effectively expanded the reach of banking Yojanas to underserved populations. This suggests a significant skepticism or disbelief in the effectiveness of mobile banking applications in reaching underserved communities.

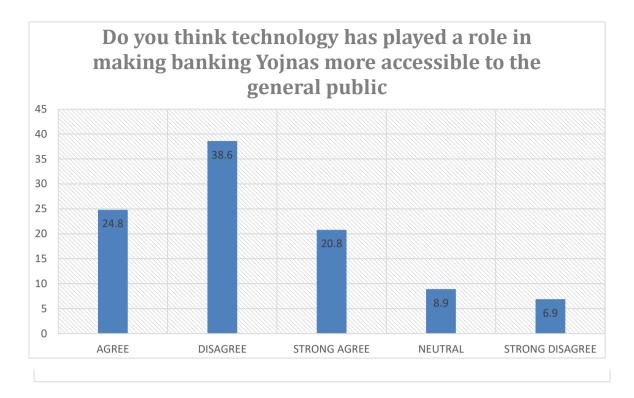
Disagree: 22.8% of respondents disagree with this idea. This further indicates a substantial portion of respondents who do not believe that mobile banking applications have been successful in expanding the reach of banking Yojanas to underserved populations.

Neutral: 18.8% of respondents hold a neutral stance on the effectiveness of mobile banking applications in reaching underserved populations. This suggests a significant portion of respondents are undecided or require more information to form an opinion on the matter.

Agree: 6.9% of respondents agree with the statement. This indicates a minority perspective acknowledging the effectiveness of mobile banking applications in expanding the reach of banking Yojanas to underserved populations.

Strongly agree: 6.9% of respondents strongly agree that mobile banking applications have effectively expanded the reach of banking Yojanas to underserved populations

CHART 4



Interpretation: Yes: 39.6% of respondents believe there is a need for further improvement in technology infrastructure to enhance the reach of banking Yojanas. This indicates that a significant portion of respondents recognize the importance of upgrading technology infrastructure to better facilitate access to banking schemes.No: 28.7% of respondents do not believe there is a need for further improvement in technology infrastructure. This suggests a minority perspective that may perceive existing technology infrastructure as sufficient or prioritize other factors in enhancing the reach of banking Yojanas.Maybe: 31.7% of respondents are uncertain about the need for further improvement in technology infrastructure. This indicates a sizable proportion of respondents who are undecided or require more information to form a definite opinion on the matter, potentially reflecting a need for further exploration or clarification of the issue

Reliability Chi-Square Test:

Hypothesis 1: Any significant relation between Gender on access your banking yojnas services H0: There is no significant relationship between impact to used on access your banking yojnas services

H1: There is significant relationship between impact to used on access your banking yojnas services

Table 1 Chi-Square Test

Chi-Square Tests

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	Value	df	Asymp. Sig. (2-sided)		
			(= 5.464)		
Pearson Chi-Square	6.402 ^a	8	.602		
Likelihood Ratio	6.971	8	.540		
Linear-by-Linear Association	.491	1	.483		
N of Valid Cases	99				

a. 8 cells (53.3%) have expected count less than 5.

The minimum expected count is .53.

Interpretation: At alpha = 0.05, we find that the p-value is 0.602 which is greater than 0.05. Hence H0 is not rejected and that There is significant relationship between impact to used on access your banking yojnas services

Hypothesis 2: Any significant relation between Gender on challenges do you think people face in accessing banking Yojnas

H0: There is no significant relationship between gender and challenges do you think people face in accessing banking Yojnas

H1: There is significant relationship between gender and challenges do you think people face in accessing banking Yojnas.

Table 2 Chi-Square Test

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.362a	4	.851
Likelihood Ratio	1.261	4	.868
Linear-by-Linear Association	.304	1	.581
N of Valid Cases	101		

a. 3 cells (30.0%) have expected count less than 5.

The minimum expected count is 1.80.

Interpretation: At alpha = 0.05, we find that the p-value is 0.851 which is greater than 0.05. Hence H0 is not rejected and that There is significant relationship between gender and challenges do you think people face in accessing banking Yoinas

Hypothesis 3: Any significant relation between Gender and applications have effectively expanded the reach of banking Yojanas to underserved populations..

H0: There is no significant relationship between gender and applications have effectively expanded the reach of banking Yojanas to underserved populations.

H1: There is significant relationship between gender and applications have effectively expanded the reach of banking Yojanas to underserved populations..

Table 3 Chi-Square Test

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	4.783 ^a	3	.188
Likelihood Ratio	5.244	3	.155
Linear-by-Linear Association	.468	1	.494
N of Valid Cases	101		

a. 2 cells (25.0%) have expected count less than 5.

The minimum expected count is 2.83.

Interpretation: At alpha = 0.05, we find that the p-value is 0.188 which is less than 0.05. : There is no significant relationship between gender and applications have effectively expanded the reach of banking Yojanas to underserved populations

6. Findings

Increased Accessibility
Cost Reduction
Improved Efficiency
Data Analytics for Targeting
Enhanced Security
Education and Awareness
Challenges Remain

7. Conclusion

In conclusion, this research has shed light on the transformative role of technology in expanding the reach of banking yojanas and advancing financial inclusion agendas. Through a comprehensive analysis of literature, quantitative data, qualitative insights, and case studies, several key findings and implications have emerged.

Firstly, technology-enabled solutions such as digital banking platforms, mobile applications, biometric authentication systems, and blockchain technology have significantly enhanced the accessibility, efficiency, and effectiveness of banking yojanas. These technological interventions have facilitated remote access to banking services, streamlined administrative processes, reduced transaction costs, and improved transparency, thereby overcoming traditional barriers to financial inclusion.

Secondly, the integration of technology into banking yojanas has yielded tangible socio-economic benefits for marginalized and underserved populations. Increased account ownership, savings mobilization, credit accessibility, and poverty reduction are among the positive outcomes observed, highlighting the transformative potential of technology in empowering individuals and communities to participate in the formal financial system.

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