

## **FINANCIAL LITERACY: NEEDS, CHALLENGES, AND PROSPECTS IN RURAL AREAS**

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### **Abstract:**

Financial literacy plays a pivotal role in shaping individuals' economic well-being and fostering financial inclusion. However, rural areas often face unique challenges that can significantly impact the financial literacy of their residents. This paper investigates the need for financial literacy in rural areas, the challenges that hinder its development, and the prospects for enhancing financial literacy in these communities. Through an empirical analysis that includes surveys, interviews, and data analysis, this study sheds light on the current state of financial literacy, explores the barriers faced by rural residents, and proposes strategies to improve financial literacy in rural areas. The findings underscore the importance of tailored financial education programs, community engagement, and the leveraging of technology to bridge the financial literacy gap in rural regions, ultimately contributing to economic empowerment and financial well-being in these areas.

### **Keywords:**

Financial Literacy, Rural Areas, Financial Inclusion, Financial Education, Needs Assessment

### **Introduction:**

Financial literacy, the capacity to comprehend and handle one's monetary matters efficiently, is a fundamental expertise that supports economic prosperity and financial integration. In a progressively intricate monetary landscape, where individual financial choices have extensive repercussions, the importance of financial understanding cannot be exaggerated. While this significance is widely recognised, discrepancies in monetary understanding levels endure across diverse demographic categories and geographic areas (Lusardi & Mitchell, 2011).

Rustic regions, distinguished by their distinct socio-economic dynamics, frequently encounter singular obstacles when it pertains to monetary comprehension (Egyir, 2010). The inhabitants of these areas often come across barriers that can hinder their capacity to obtain vital monetary understanding and abilities (Orton, 2007). Elements such as restricted entry to formal monetary education resources, economic inequalities, and geographical seclusion can intensify the financial literacy gap in rural areas (Shanava&Vanishvili, 2021). Consequently, it becomes essential to scrutinise the particular requirements, obstacles, and possibilities for augmenting monetary understanding in remote regions (Ahsan, 2013).

This document intends to offer an all-encompassing investigation of monetary proficiency in countryside areas, diving into the fundamental requirements, the obstacles that impede its enhancement, and the possible pathways for enhancement (Atkinson & Messy, 2015). Through performing empirical investigation that involves questionnaires, discussions, and data examination, we aim to acquire valuable understandings regarding the condition of economic knowledge in remote regions (Abubakar, 2015), the distinct obstacles encountered by inhabitants (Siekei, Wagoki, & Kalio, 2013), and approaches that can be utilised to enhance economic knowledge in these societies (Niu, Zhou, & Gan, 2020).

- **The Requirement for Monetary Proficiency:** We will explore the fundamental causes and incentives for improving monetary proficiency in rural regions (Pandey, 2022). Comprehending the particular requirements and ambitions of countryside inhabitants is vital in customising efficient monetary instruction endeavours (Ediagbonya& Tioluwani, 2023).
- **Obstacles to Monetary Comprehension:** An analysis of the hindrances and difficulties that rural communities encounter in their quest for financial literacy. These difficulties can vary from restricted

entry to educational materials (Liu & Zhang, 2021) to socio-economic elements that influence monetary decision-making (Birochi&Pozzebon, 2016).

▪ **Possibilities for Enhancement:** We will investigate possible approaches and possibilities for enhancing monetary understanding in rural regions (Cordero, Gil-Izquierdo, & Pedraja-Chaparro, 2022). This entails exploring the function of community involvement, technology, and inventive monetary education initiatives in closing the divide (Andriamahery&Qamruzzaman, 2022).

By means of this investigation, our objective is to make a contribution to the expanding pool of information regarding financial understanding and its significance in rural settings (Pomeroy, Arango, Lomboy, & Box, 2020). By recognising the particular requirements and obstacles of countryside communities and suggesting implementable resolutions (Lyons, 2007), we aim to encourage fiscal empowerment and monetary welfare in these regions. Ultimately, our investigation aims to tackle the crucial query of how monetary understanding can be utilised as a stimulant for beneficial transformation in rural regions, nurturing comprehensive economic growth and enhancing the livelihoods of those who reside in these areas.

### **Financial Literacy in Rural Areas:**

Economic literacy, the capacity to comprehend and proficiently handle one's monetary resources, is widely acknowledged as a foundation of individual fiscal prosperity and financial empowerment (Lusardi & Mitchell, 2011). It empowers individuals with the wisdom and expertise essential to make enlightened financial choices, allocate resources efficiently, save for the future, invest prudently, and safeguard themselves from financial setbacks.

Nevertheless, the acquisition of monetary expertise is not uniformly distributed, and discrepancies in fiscal understanding and capacity endure, notably in remote regions (Egyir, 2010). Rustic regions, distinguished by their geographic seclusion, unique socio-economic dynamics, and frequently restricted entry to resources (Shanava&Vanishvili, 2021), offer a one-of-a-kind array of difficulties and possibilities concerning monetary proficiency.

The economic terrains of these areas are moulded by a fusion of elements, encompassing diverse earnings levels, farming sustenance, and a dependence on customary monetary methodologies (Orton, 2007). It is within this framework that the significance of comprehending and tackling economic literacy in rural regions becomes apparent.

This document commences an expedition of the diverse facets of Financial literacy in countryside environments, aiming to reveal the distinct requirements, obstacles, and possibilities that characterise the scenery (Ahsan, 2013). By means of empirical investigation, data examination, and an all-encompassing assessment of current literature (Siekei, Wagoki, & Kalio, 2013), we strive to depict a lucid portrayal of the monetary proficiency terrain in remote regions and to provide perspectives on how it can be enhanced.

In this preliminary section, we establish the groundwork for our investigation by delineating the pivotal elements that will be scrutinised extensively throughout the document (Niu, Zhou, & Gan, 2020). We commence by deliberating the importance of fiscal literacy in rural communities and its extensive ramifications for the economic steadiness and welfare of inhabitants (Siekei et al., 2013). We subsequently explore the distinctive obstacles encountered by rural communities, such as restricted availability to formal financial instruction, geographical hindrances, and the influence of customary financial customs (Pandey, 2022).

Moreover, we emphasise the possible opportunities for improving Financial literacy in remote regions, focusing on inventive methods, community-led endeavours, and the significance of technology in surmounting obstacles (Ediagbonya& Tioluwani, 2023). This document seeks to offer an all-encompassing comprehension of monetary literacy in rural settings and to function as a stimulant for actionable approaches and regulations that can enable individuals and communities to attain fiscal stability and affluence (Cordero, Gil-Izquierdo, & Pedraja-Chaparro, 2022).

As we commence on this expedition through the economic terrains of countryside regions, it is our aspiration that the observations produced will not only reveal the difficulties encountered but also elucidate the way ahead (Lyons, 2007). By acknowledging the distinct requirements of rural populations and harnessing possibilities for enhancement (Pomeroy, Arango, Lomboy, & Box, 2020), we can pave the path for comprehensive economic progress and monetary prosperity in these frequently disregarded areas.

### **Challenges in Promoting Financial Literacy in Rural Settings:**

Advancing monetary education in remote areas is truly an admirable pursuit with the capacity to elevate individuals and communities financially. Nevertheless, it arrives with an exclusive array of obstacles that must be conquered to efficiently empower countryside inhabitants with the wisdom and abilities required to formulate prudent monetary choices. Here are some of the principal obstacles in fostering financial literacy in rural areas:

1. **Restricted Entry to Official Financial Education (Orton, 2007):** Countryside regions frequently experience a deficiency in access to official financial education establishments and assets. Inhabitants may have restricted chances for face-to-face fiscal education classes, workshops, or seminars, making it challenging to obtain crucial monetary understanding.
2. **Geographical Obstacles (Shanava&Vanishvili, 2021):** The geographic seclusion of rural communities can pose a substantial hurdle. Spatial distance to financial institutions and educational centres can deter engagement in financial literacy programmes and impede residents from accessing banking services.
3. **Digital Disparity (Niu, Zhou, & Gan, 2020):** The digital disparity is evident in rural areas, with restricted entry to the internet and technology. This can hinder the utilisation of online monetary education resources and digital banking instruments, which are progressively significant in the contemporary financial terrain.
4. **Language and Cultural Obstacles (Abubakar, 2015):** Rural communities may possess varied cultural heritages and dialects. Providing monetary education material in a manner that is culturally considerate and linguistically approachable can pose a difficulty.
5. **Diminished Levels of Education (Siekei, Wagoki, & Kalio, 2013):** In certain remote regions, there might exist reduced mean levels of conventional education among inhabitants. This can make it more demanding to communicate intricate monetary ideas and necessitates customised educational methods.
6. **Economic Inequalities (Egyir, 2010):** Rural regions may encounter economic disparities, with certain individuals encountering monetary instability and destitution. Tackling monetary literacy in the framework of economic inequalities can be intricate, as individuals may possess diverse fiscal requirements and aspirations.
7. **Deficiency of Consciousness (Atkinson & Messy, 2015):** Numerous countryside inhabitants may not completely acknowledge the significance of fiscal proficiency or may undervalue the influence it can exert on their lives. Promoting consciousness regarding the advantages of monetary instruction can prove to be a noteworthy obstacle.
8. **Dependence on Conventional Financial Practises (Pandey, 2022):** Countryside communities frequently possess enduring customs and methodologies concerning finance and farming. Promoting the embrace of contemporary financial practises and tools can be encountered with opposition or doubt.
9. **Restricted Assets (Ediagbonya& Tioluwani, 2023):** Monetary proficiency initiatives necessitate resources, such as financing, supplies, and skilled instructors. In countryside regions with restricted resources, maintaining such initiatives can be a difficulty.
10. **Customised Content Creation (Cordero, Gil-Izquierdo, & Pedraja-Chaparro, 2022):** Crafting monetary instruction resources that connect with the particular requirements and ambitions of countryside inhabitants is pivotal. Creating content that is relatable and implementable for rural audiences can be time-consuming and necessitate cultural sensitivity.

11. Involvement and Involvement (Lyons, 2007): Stimulating dynamic involvement in monetary education initiatives can be demanding, as rural inhabitants may possess conflicting priorities, such as farming or physical toil, that restrict their accessibility.

12. Prolonged Durability (Lusardi & Mitchell, 2011): Guaranteeing the durability of financial literacy endeavours in rural regions is crucial. Programmes must be formulated with enduring goals and mechanisms for continuous assistance and assessment.

Tackling these obstacles necessitates a diverse approach that entails cooperation among governmental bodies, monetary establishments, not-for-profit groups, and community influencers. Customised approaches, encompassing community involvement, technology implementation, and cultural awareness, are crucial in surmounting these obstacles and fostering economic education in rural environments efficiently.

**Research Methodology:**

To conduct research on "Financial Literacy: Needs, Challenges, and Prospects in Rural Areas" with a sample size of 100 respondents, a cross-sectional research design will be employed. The study will focus on rural areas in India, specifically in the villages of Rohtak Block Area, Rohtak, Haryana, including Anwal, Asan, Atail, Jalalpur, and Jasia. Using a random sampling technique, participants will be selected from these villages to ensure diversity in age groups and access to formal financial education resources. Data on financial literacy levels, demographic information, and years of formal education will be gathered from rural residents in these specific villages. Statistical analyses, including ANOVA, t-tests, and correlation, will be applied to test the hypotheses formulated in the study, taking into account the unique characteristics and challenges faced by residents in these rural areas. Throughout the research process, ethical considerations will be maintained, including obtaining informed consent from participants, ensuring data privacy and confidentiality, and adhering to ethical guidelines and regulations relevant to human subjects' research. Upon completion of the research, a comprehensive research report will be generated, addressing limitations and offering recommendations for future financial literacy initiatives in the selected rural areas of Rohtak Block Area, Rohtak, Haryana, including Anwal, Asan, Atail, Jalalpur, and Jasia. This report will serve as a valuable resource for policymakers, organizations, and community leaders interested in promoting financial literacy and economic empowerment in these specific rural villages.

**Hypothesis 1 (ANOVA - Financial Literacy Levels Across Age Groups):**

Null Hypothesis (H0): There is no significant difference in financial literacy levels among residents in rural areas of India across different age groups.

Alternate Hypothesis (H1): There is a significant difference in financial literacy levels among residents in rural areas of India when categorized by age groups (e.g., 18-30, 31-45, 46-60, 60+).

Descriptives									
FINANCIAL LITERACY LEVEL									
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum	Between-Component Variance
					Lower Bound	Upper Bound			
18-30	20	1.00	.000	.000	1.00	1.00	1	1	
31-45	20	1.90	.308	.069	1.76	2.04	1	2	
46-60	31	2.90	.301	.054	2.79	3.01	2	3	
60+	29	4.59	.501	.093	4.40	4.78	4	5	

Total		100	2.81	1.368	.137	2.54	3.08	1	5	
Mode 1	Fixed Effects			.347	.035	2.74	2.88			
	Random Effects				.782	.32	5.30			2.345

The given information and figures relate to the examination of Financial literacy levels among inhabitants in remote regions of India, classified by diverse age brackets. The study aimed to explore whether there is a notable disparity in financial acumen levels among these age categories. The illustrative statistics provide perspectives into the average financial literacy scores, variability, standard mistake, and assurance intervals for every age category. The age groups were segregated into four classifications: 18-30, 31-45, 46-60, and 60 and above. The average economic literacy scores for these groups unveil fascinating patterns. The most youthful age category (18-30) had the minimum average score, suggesting a comparatively lesser degree of financial literacy. As age escalates, there is a perceptible upward inclination in financial literacy ratings, with the 60+ age category possessing the utmost average score, indicating a superior degree of financial literacy among elder individuals. The statistical examination encompassed an ANOVA assessment, which computed the amid-element fluctuation (Citation Required). The amidst-component variance value of 0.347 signifies that there is some fluctuation in financial literacy levels among distinct age cohorts, which implies that there might indeed be a noteworthy disparity in financial literacy levels across these cohorts. In general, considering the given data and the variation between groups, it seems that there is proof to back up the alternative hypothesis (H1) that there is a notable disparity in financial literacy levels among inhabitants in remote regions of India when classified by age categories. These discoveries emphasise the significance of customising fiscal knowledge endeavours to tackle the particular requirements and obstacles of diverse age groups in rural areas to amplify overall fiscal literacy levels.

ANOVA					
FINANCIAL LITERACY LEVEL					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	173.846	3	57.949	481.894	.000
Within Groups	11.544	96	.120		
Total	185.390	99			

The findings of the examination of variance (ANOVA) for monetary proficiency levels among inhabitants in countryside regions of India suggest an exceedingly noteworthy disparity in monetary proficiency levels across diverse age categories. The ANOVA chart offers valuable insights concerning the variability in financial literacy scores. The "Amongst Cohorts" segment of the chart displays the total of squares amongst cohorts, which amounts to 173.846, with 3 degrees of liberty (df). The average square magnitude, which is 57.949, signifies the disparity among the age categories. The F-statistic, with an exceedingly elevated value of 481.894, illustrates the proportion of the disparity amidst clusters to the disparity within clusters. Crucially, the linked p-value (Significance) is exceedingly small, suggesting statistical significance. In this circumstance, a p-value of .000 implies that the observed disparities in financial literacy scores among the age categories are not attributable to random chance but are indeed meaningful and noteworthy. On the other hand, the "Intra Groups" segment presents a lesser total of squares (11.544) with 96 degrees of liberty, yielding a mean square worth of .120. This exemplifies the diversity in Financial literacy ratings within every age category. The "Aggregate" row displays the overall sum of squares (185.390) and the total count of observations (99). In brief, the ANOVA findings robustly endorse the alternative proposition (H1) that there exists a noteworthy disparity in financial acumen levels among inhabitants in remote regions of India when classified by age categories. These discoveries emphasise the necessity for focused Financial literacy

campaigns that take into account the diverse requirements and obstacles of distinct age groups within rural communities to encourage enhanced Financial literacy and well-being.

**Hypothesis 2 (t-test - Financial Literacy Scores and Access to Formal Education):**

Null Hypothesis (H0): There is no significant difference in financial literacy scores between residents in rural areas of India who have access to formal financial education resources and those who do not.

Alternate Hypothesis (H1): There is a significant difference in financial literacy scores between residents in rural areas of India who have access to formal financial education resources and those who do not.

Group Statistics					
	Access to Formal Education	N	Mean	Std. Deviation	Std. Error Mean
Financial Literacy Scores	YES	60	2.27	.954	.123
	NO	40	4.58	.501	.079

The information and examination centred on testing Hypothesis 2, which investigates whether there is a noteworthy disparity in financial literacy scores between rural inhabitants in India who have availability to formal financial education resources ("YES") and those who lack it ("NO"). The findings suggest significant disparities in the average Financial literacy ratings among the two cohorts. The cohort with availability to structured monetary instruction materials ("YES") exhibited a diminished average rating (2.27) in contrast to the cohort lacking accessibility ("NO"), which displayed a conspicuously elevated average rating (4.58). These disparities indicate a possible substantial divergence in financial literacy levels. To verify this, a t-examination should be performed. If the t-examination produces a small p-value, it would offer compelling proof to endorse the alternative hypothesis (H1) that there is indeed a notable disparity in financial literacy scores between these groups, emphasising the influence of availability to formal financial education resources on rural inhabitants' financial literacy levels in India.

Independent Samples Test										
		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
Financial Literacy Scores	Equal variances assumed	20.738	.000	-14.048	98	.000	-2.308	.164	-2.634	-1.982
	Equal variances not assumed			-15.763	93.628	.000	-2.308	.146	-2.599	-2.018

The outcomes of the autonomous samples t-test carried out to evaluate the distinction in Financial literacy scores between countryside inhabitants in India with availability to structured monetary education resources and those without availability disclose a noteworthy discrepancy. The Levene's examination for uniformity of dispersions, which evaluates the uniformity of dispersions between the two groups, demonstrated a noteworthy distinction ( $F = 20.738, p < .001$ ), suggesting dissimilar dispersions. Nevertheless, the t-test for parity of averages, assuming disparate fluctuations, validated an exceedingly substantial disparity in averages ( $t = -15.763, p < .001$ ). The average discrepancy between the two groups was  $-2.308$ , indicating that rural inhabitants with availability to structured monetary education resources achieved notably inferior in fiscal proficiency in comparison to their counterparts lacking access. The 95% assurance interval for the discrepancy ( $-2.634$  to  $-1.982$ ) further emphasises this noteworthy distinction. These discoveries offer robust backing for the alternative proposition (H1) that there is indeed a notable disparity in financial literacy scores depending on the availability of official financial education resources, underscoring the influence of availability on financial literacy levels in rural India.

Independent Samples Effect Sizes					
		Standardizer <sup>a</sup>	Point Estimate	95% Confidence Interval	
				Lower	Upper
Financial Literacy Scores	Cohen's d	.805	-2.867	-3.430	-2.297
	Hedges' correction	.811	-2.845	-3.404	-2.280
	Glass's delta	.501	-4.611	-5.701	-3.511
a. The denominator used in estimating the effect sizes. Cohen's d uses the pooled standard deviation. Hedges' correction uses the pooled standard deviation, plus a correction factor. Glass's delta uses the sample standard deviation of the control group.					

The impact magnitudes for the disparity in financial literacy scores among rural inhabitants in India with and without availability to official financial education resources were evaluated utilising three approaches: Cohen's d, Hedges' adjustment, and Glass's delta. Cohen's d, which is the most frequently employed approach, depends on the combined standard deviation of the two groups. Hedges' amendment is akin to Cohen's d but incorporates a rectification factor to consider conceivable biases in diminutive sample sizes. Glass's epsilon, conversely, utilises the sample deviation of the control group. In this examination, all three magnitude of effect estimates consistently indicate a significant effect. The point approximations for Cohen's d, Hedges' adjustment, and Glass's delta are .805, .811, and .501, correspondingly. These principles indicate a substantial impact magnitude, emphasising the notable disparity in financial literacy ratings between rural inhabitants with and without availability to structured financial instruction materials in India. This sturdy effect magnitude underscores the pragmatic significance of the discoveries, emphasising the weight of tackling discrepancies in monetary education access to enhance monetary literacy levels in rural communities.

**Hypothesis 3 (Correlation - Relationship Between Education and Financial Literacy):**

Null Hypothesis (H0): There is no significant correlation between the level of formal education (measured in years of schooling) and the financial literacy scores of individuals in rural areas of India.  
 Alternate Hypothesis (H1): There is a significant positive correlation between the level of formal education (measured in years of schooling) and the financial literacy scores of individuals in rural areas of India.

Descriptive Statistics			
	Mean	Std. Deviation	N
Education	2.87	1.440	100
Financial Literacy	3.12	1.402	100

<b>Correlations</b>			
		Education	Financial Literacy
Education	Pearson Correlation	1	.953**
	Sig. (2-tailed)		.000
	N	100	100
Financial Literacy	Pearson Correlation	.953**	1
	Sig. (2-tailed)	.000	
	N	100	100
**. Correlation is significant at the 0.01 level (2-tailed).			

The examination carried out to investigate the correlation between the degree of formal education, assessed in years of instruction, and the Financial literacy scores of individuals in rural regions of India, corresponds with Assumption 3. The explanatory statistics disclose that the average duration of formal schooling among the 100 participants is roughly 2.87 years, with a deviation of 1.440. On the other hand, the average Financial literacy score is roughly 3.12, with a deviation of 1.402. The correlation examination, particularly Pearson's correlation coefficient, displays an exceedingly robust affirmative correlation between knowledge and monetary literacy scores. The Pearson correlation coefficient is .953, and it is statistically significant at the 0.01 level (two-sided), with a p-value of .000. This suggests that there is a greatly substantial affirmative correlation between the degree of formal education and financial proficiency scores among rural inhabitants in India. In brief, these discoveries vigorously uphold the alternative proposition (H1) that there is indeed a noteworthy and affirmative association between formal instruction levels (measured in years of learning) and monetary proficiency evaluations. This implies that individuals with elevated levels of formal education are inclined to possess superior financial literacy scores in rural India, emphasising the significance of education in augmenting financial literacy levels in these communities.

**Conclusion:**

The quest for financial literacy in remote regions embodies a crucial undertaking with extensive ramifications for the economic welfare and fiscal incorporation of their inhabitants. Our investigation of this subject has unveiled numerous pivotal revelations that emphasise the significance of tackling the distinct requirements, obstacles, and opportunities of economic understanding in rural areas. For example, discrepancies in monetary understanding within countryside regions have been recognised, showcasing differences across diverse demographic categories (Orton, 2007; Shanava&Vanishvili, 2021). These discrepancies, impacted by elements like age, schooling, and earnings (Egyir, 2010; Atkinson & Messy, 2015; Abubakar, 2015), demand focused interventions that can tackle the particular requirements of varied rural populations. Our analysis of the obstacles to economic literacy in rural regions has illuminated the diverse difficulties encountered by inhabitants. Restricted entry to formal financial education resources, combined with cultural and spatial limitations, has impeded the advancement of financial acumen (Birochi&Pozzebon, 2016; Andriamahery & Qamruzzaman, 2022; Pandey, 2022). Acknowledging these obstacles is a pivotal measure in formulating efficient tactics to surmount them. Nevertheless, there is reason for hope as we contemplate the possibilities for enhancement. Progressive strategies, encompassing societal involvement, tech-driven resolutions, and culturally aware economic enlightenment endeavours, provide avenues to connect the Financial literacy divide in remote areas (Niu, Zhou, & Gan, 2020; Siekei, Wagoki, & Kalio, 2013). These tactics can empower individuals and communities to make enlightened financial choices and contribute to their economic progress. Moreover, our examination underscores the significance of gauging the influence of monetary expertise initiatives and evaluating their enduring advantages, guaranteeing that endeavours in this domain are not just efficacious but also enduring (Ediagbonya& Tioluwani, 2023; Liu & Zhang, 2021). As we gaze forward, it is apparent that fiscal literacy is not merely an instrument for personal empowerment; it is also a stimulant for favourable transformation within rural



communities. By cultivating a culture of monetary acumen, we can promote comprehensive economic growth, empower individuals to traverse the fiscal terrain proficiently, and enhance the overall standard of living in rural regions (Lusardi & Mitchell, 2011). In conclusion, this study emphasises the importance of tackling economic knowledge in remote regions, acknowledging the obstacles, and seizing the opportunities for beneficial transformation. It is our aspiration that the discoveries and perceptions presented in this document will stimulate additional investigation, policy endeavours, and community-led endeavours aimed at augmenting financial understanding and propelling economic empowerment in rural communities.

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