

"Empowering Rural Women: Analyzing Awareness and Usage of Fintech Tools in Shivamogga District"

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ABSTRACT

This study examines the awareness and adoption levels of fintech tools among rural women in Shivamogga district, Karnataka, India. Fintech solutions have the potential to empower women by providing them access to affordable and efficient financial services, yet their adoption remains limited in rural areas. Through a combination of primary data collection and secondary analysis, the research identifies digital literacy, socio-cultural norms, and infrastructural challenges as key barriers to adoption. The findings also highlight the role of financial education programs, government initiatives, and community-based organizations in fostering fintech usage. This study provides actionable insights for policymakers, fintech developers, and stakeholders to enhance financial inclusion and economic empowerment among rural women.

The study uses an analytical research design. Conveniently, a questionnaire was distributed to the 50 women in the sample size who were fintech users in rural Karnataka's Malnad Region. The data were rated using a five-point Rensis Likert scale. The Percentage Analysis, Mean-value analysis and Correlation Analysis have been employed for statistical analysis using Excel According to the report, the majority of respondents used fintech services because they were simple to use.

INTRODUCTION

A technological advancement in the financial services industry is known as fintech, or financial technology. Financial service design and delivery are automated by it. Through the use of hardware and software, users receive financial products and services more quickly. It is the fintech market with the quickest rate of growth worldwide. Fintech encompasses a variety of industries and areas, including investment management, retail banking, and education. Customers may benefit from a more convenient and customised experience. Opportunities for economic growth, particularly financial inclusion, are presented by fintech. Its goal is to meet the unmet financial needs of population segments that aren't served by traditional financial services models. It assists in bridging the digital divide created by traditional finance structures. It improves minority, rural, and low-income populations' access to financial services. It eliminates the obstacles to using mobile devices and internet resources to access financial services. The digital transformation was sped up by government of India financial inclusion initiatives as PMJDY, DAY-NRLM, Direct Benefit Transfer, and Atal Pension Yojana.

Review of Literature

Hadi Esmaeilpour Moghadam & Arezou Karami., (2023) explore how financial inclusion using Fintech (FIF) impacts women's financial empowerment (WFE) globally. The authors use cross-sectional data methods and principal component analysis (PCA) to analyse the dataset of 113 nations from the Global Findex (2017) and World Bank databases. The results show that countries with minimal gender bias have a strong and positive connection between female involvement in finance and women's economic empowerment. In countries with high levels of gender discrimination, the impact is relatively low. The study focuses on

women from diverse regions around the world. The current investigation focuses solely on women who live in rural areas.

In her study, Nathalie Hemmen (2019) aims to uncover and examine the elements that impact women in developing nations in their ability to utilize fintech innovation for financial inclusion. There is an urgent need to focus more closely on the specific situation of women in the conversation about fintech financial inclusion due to the ongoing issue of lack of financial inclusion. In underprivileged and vulnerable women in developing countries, it is essential to address their specific issues and needs. Determining how these four factors impact the procedure.

This study explores how fintech promotes financial inclusion in Sub-Saharan Africa, the Middle East, and North Africa by focusing on four key factors: technology, legislation, accessibility, and female empowerment. The results show that the most crucial factor for fintech financial inclusion is the degree of female empowerment in a region, however, it is essential to view all factors as interconnected within an ecosystem rather than separate entities.

In his research, Hasnan Baber (2018) sought to connect FinTech and financial inclusion among 144 countries by utilizing data from the World Bank's 2017 Global Findex report. The study measured financial inclusion through specific report features and assessed FinTech accessibility through various indicators. There was a notable connection found between the independent variable FinTech and the dependent variable financial inclusion among both the overall population and the female population. The research also found that high-income countries generally show more inclusivity, with some exceptions, whereas low-income countries experience financial exclusion. The research will help to comprehend the impact of FinTech on the inclusion of marginalized communities in the financial sector and could

provide a solution to combat poverty and advance gender equality.

In their research, Budi Setiawan, Thich Dai Phan, and their team conducted a study. In 2023, researchers aimed to gain a deeper insight into the determinants affecting the behavioral intention of Indonesian women towards adopting fintech. The data for the research was provided by 409 female respondents from Indonesia. The measurement model and structural model of this research were appraised using structural equation modelling (SEM). The outcome indicates that the perception of usefulness, how easy it is to use, user innovation, attitude, trust, and brand image all have a significant positive effect on the intention of Indonesian women to adopt Fintech. At the same time, perceived ease of use, financial literacy, and government support are discovered to have indirect connections with behavioral intention.

All research mentioned examines how fintech services contribute to increasing financial inclusion for women globally. It gives a summary of the study zone. The text must be rephrased while maintaining the original language and word count.

Research Gap

The current research examines how fintech contributes to the financial inclusion of rural women. Previous research examined the idea using secondary data such as information from the World Bank's report. The current research obtained information straight

Table-1 Demographic Profile of the respondents

Demographics	Particulars	Number	Percentage
Age (in years)	Less than 25	25	18
	26 -40	24	17
	41 - 55	51	36
	More than 56	40	29
Marital status	Married	50	36
	Unmarried	90	64
Level of Education	High school	92	66
	Undergraduate	24	17
	Postgraduate	21	15
	Doctorate/Professional	3	2

Total number of respondents =140

Table 1 shows demographic profile of the respondents. 36 percent of respondents are between the age group of 41 and 55 years.17 percent of respondents are between the age group of 26 and 40 years. 29 percent of respondents are above the age 56 years and

from women in rural areas through a structured questionnaire, assisting in gaining a deeper understanding of the concept. The current research also aids in comprehending the challenges faced when trying to use fintech services.

Objectives of the study

1. To comprehend the level of awareness of various fintech services among rural women.
2. To realise the usage of fintech services among rural women.
3. To analyse the obstacles confronted by rural women while accessing fintech services.

Scope and Significance

Fintech services are frequently used in the nation. It leveraged current technology like artificial intelligence to attract the global clientele. These days, financial transactions can be conducted anywhere in the world, regardless of national borders. Fintech services are still underutilised by certain individuals. They don't know about different fintech products or how to use them. The current study contributes to a deeper understanding of whether fintech services are available to rural women. It is useful to know if fintech solutions satisfied rural women's financial demands. It is beneficial to comprehend the difficulties they had while using the fintech services.

remaining 18 percent below the age of 25 years. 36 percent of the respondents are married and remaining were unmarried. 66 percent of the respondents have high school qualification.

Table-2 Reason for accessing the fintech services than conventional financial services.

Reason	Number of respondents	Percentage
Convenience	40	29%
Ease of use	48	34%
Economical	36	26%
Faster delivery of services	11	8%
Innovativeness	5	4%
Total	140	100

Table 2 shows that 34 percent of respondents accessed fintech services due to ease of use and 29 percent for their convenience. 26 percent consider it more economical than conventional

method of financial services, and 11 percent opined that they joined it due to its fasted delivery and 5 percent accessed it for its innovativeness.

Table-3 Level of awareness on various fintech products

Fintech Products	Number of Respondents				Mean Value	Rank
	Fully Aware	Aware to an extent	Unaware	Total		
Mobile Payments	74	61	5	140	2.49	1
Insurance	40	94	6	140	2.24	3
Stock trading apps	58	64	18	140	2.29	2
Crowd funding	24	42	74	140	1.64	4

Table- 4 Usage of Financial services after the popularity of fintech services

Financial services	Number of Respondents						Mean Value	Rank
	SA	A	N	D	SDA	Total		
Banking	47	43	32	10	8	140	3.79	1
Payment gateways	43	23	27	25	22	140	3.29	3
Mobile Payments	47	37	21	24	11	140	3.61	2
Stock trading	40	27	21	11	41	140	3.10	5
Insurance	43	19	18	42	16	138	3.18	4

Table-5 Frequency of Usage of fintech services by the respondents

Financial services	Number Of Respondents						Mean Value	Rank
	SA	A	N	D	SDA	Total		
Opening of account	45	24	34	23	14	140	3.45	4
Borrowing	38	40	26	28	8	140	3.51	3
Bill Payments	72	46	1	14	7	140	4.16	1
Online Trading	65	28	27	11	9	140	3.92	2

Hypothesis

There is no significant difference between levels of education and usage of fintech services of respondents.

There is significant difference between levels of education and usage of fintech services of respondents.

Table-5 indicating ANOVA summary to find out relationship between respondents' use of fintech services and their educational attainment

ANOVA Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	1513.778699	1	1513.778699	2.174052185	0.178586781	5.317655063
Within Groups	5570.349082	8	696.2936352			
Total	7084.127781	9				

Calculated p value 0.17 is greater than the 0.05. Hence Null hypothesis is accepted. Therefore it can be inferred that there is no significant difference between levels of education and usage of fintech services of respondents

Analysis Discussion

Globally, fintech services are becoming more and more popular. It is essential to the economy's transition to a cashless one. The study is on how fintech services help rural women become more financially included. According to the report, the majority of respondents used fintech services because they were inaccessible and required complicated procedures for financial services. Fintech offers solutions to these issues that people run into when trying to acquire financial services. Majority of respondents are aware of mobile payment services like Paytm, Google Pay, and others. Then, they are informed about applications for stock trading and insurance, respectively. They know the least about crowdsourcing. The majority of respondents said they now use modern technologies for banking. Then, when they shop and other activities, they use mobile payments.

Additionally, they are utilizing fintech services to open accounts and borrow money from financial institutions. Online stock trading is the fintech service that is least used. The results of the one-way ANOVA test indicate that there is no discernible relationship between respondents' use of fintech services and their educational attainment. The results of ANNOVA indicated that

there is no significant difference between levels of education and usage of fintech services of respondents.

CONCLUSION

Fintech services have led to an increase in women's financial inclusion as well. However, there hasn't been much of an increase in women's financial inclusion in rural as opposed to urban areas of the nation. The majority of women living in rural areas don't know about fintech services. They don't even possess any bank accounts. In addition, smartphone users in rural areas are using fintech products for a variety of everyday transactions and are aware of them. The current study focuses on how fintech services help rural women become more financially included. Previous research concentrated on women's financial inclusion on a global scale.

While specific data for Shivamogga district is limited, studies indicate that fintech services are beginning to penetrate rural areas of Karnataka. Adoption rates are still relatively low, impeded by factors such as low awareness, trust issues, and lack of digital infrastructure. Strategies to promote fintech adoption include awareness campaigns, improving digital literacy, and enhancing digital infrastructure.

In conclusion, while progress has been made in introducing fintech tools to rural women in Shivamogga, significant challenges remain. Addressing digital literacy, socio-cultural barriers, and infrastructure limitations through targeted initiatives is essential to enhance adoption rates and achieve financial inclusion.

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