An Empirical Examination of Digital Banking Adoption among Rural Consumers in Dharwad

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Abstract-Financial inclusion has increased attention in recent times due to its crucial role in fostering economic growth, promoting equality, facilitating company expansion, and ensuring the sustainability of banking and financial institutions. This study seeks to comprehend the factors influencing the adoption of digital banking among rural populations, aiming to understand the effectiveness of technology in promoting financial inclusion. Employing the UTAUT Model along with additional components such as relative benefits and relative risks, the research utilized a selfadministered questionnaire distributed in the rural areas of Dharwad. The collected data was then evaluated using the SPSS software. The results reveal that various factors, including performance expectations, effort expectancies, social influence, and facilitating conditions, significantly impact the intentions of rural customers to embrace digital banking. Interestingly, relative risks were found to be inconsequential in this context.

Indexed Terms- Digital Banking, Rural Customers, Financial Inclusion

I. INTRODUCTION

The success of any innovation hinges on its widespread adoption and effective use by a substantial portion of the general population. In recent years, both online and offline facets of the Indian banking sector have undergone significant transformations, encompassing online banking, mobile banking, and other innovations. India's well-organized banking industry includes public sector banks, private sector banks, and foreign banks. The increasing number of ATMs in India signals a rising trend of ordinary citizens embracing financial advancements, elevating their living standards and spending habits. Nowadays, even the average person regularly uses debit and credit cards.

Undoubtedly, the overall development of a nation relies on a sophisticated and modern banking culture. This electronic banking culture has already influenced the lifestyles and spending patterns of individuals, particularly the younger and middle-aged demographics. This positive development enhances the comfort and convenience of everyday life for ordinary people and significantly reduces the risks associated with handling physical currency. The government's digital India policy aims to further boost these financial transactions. Notably, banking industry employees benefit from reduced foot traffic in banks due to technological advancements, allowing clients to initiate financial transactions independently.

The success of any technology or invention is gauged by the benefits it brings to everyone, irrespective of their social or economic status. An electronic banking facility can only be considered truly beneficial to society if it is widely utilized by a diverse population. This study seeks to understand the factors influencing the acceptance of digital banking services among rural consumers.

II. PROBLEM STATEMENT

One of the primary objectives of every financial institution is to provide services while simultaneously increasing earnings. To achieve this, banks must expand their customer base, regardless of geographic location. Service and profit maximization become unattainable if only a small fraction of consumers, particularly in E-banking services, utilize the bank's facilities. This study offers a comprehensive overview of how rural populations are utilizing digital banking services.

III. NEED AND SIGNIFICANCE OF THE STUDY

While electronic banking is familiar to the majority in urban areas, its prevalence in rural sectors needs careful examination. To accurately assess the true extent of E-banking in rural areas, understanding the technology's adoption among rural populations in the Dharwad District is crucial. This study aims to explore the factors influencing rural customers' choices in adopting digital banking.

IV. LITERATURE REVIEW

In their study, Tan &Teo (2000) found that behavioural control perceptions and attitudes significantly influenced the adoption of internet Singaporean banking among consumers. Polatoglu&Ekin (2001) discovered that customer trust in internet banking services tends to grow over time. Sohali&Shanmugham (2003) identified factors like internet accessibility and client reluctance that influence the frequency of electronic banking service usage. According to Rajeshwari (2019), the shift from conventional to digital banking has transformed customer interactions and understanding of services offered in rural areas by institutions like SBI.

V. RESEARCH METHODOLOGY

This study employs a combination of qualitative and quantitative methods, targeting adults smartphones and bank accounts in rural areas of Dharwad District. A structured questionnaire, measured on a 5-point Likert scale, was administered to customers of various banks in seven taluks of Dharwad. The non-probability convenient sampling method was utilized, with a total of 210 samples collected. SPSS 21.0 was employed for data analysis. The study aims to examine variables that significantly influence one another, using the UTAUT model and adding perceived trust as a fundamental construct. The conceptual model includes performance expectancy, effort expectancy, social factors, facilitating conditions, relative benefits, relative risks, and behavioral intention to use digital banking. Figure (a) depicts the proposed conceptual model for this research.

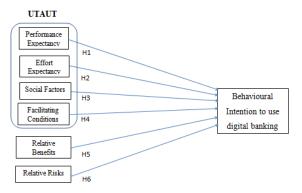


Figure (a): Proposed Conceptual Model

VI. RESEARCH HYPOTHESIS

H1: Performance expectancy has a positive significant relationship towards adoption of digital banking.

H2: Effort expectancy has a positive significant relationship towards adoption of digital banking.

H3: Social factors has a positive significant relationship towards adoption of digital banking.

H4: Relative Benefitshas a positive significant relationship towards adoption of digital banking.

H5: Relative risks has a positive significant relationship towards adoption of digital banking.

VII. DATA ANALYSIS AND DISCUSSION

• Reliability Test:

For a scale of higher than 0.7, Cronbach's Alpha coefficient is considered optimum. As a result, all of the reliability values in this research were greater than 0.7, which is higher than the permitted level. Table 1 displays the Cronbach's Alpha for all variables.

Table 1: Standardized Item Loadings and Cronbach's Alpha

Construc	Descriptio	Ite	Loadi	Cronbach'sa
t	n	ms	ng	lpha
	The	A1	.911	
Performa	degree to	A2	.790	
nce	which a			
Expectan	person			0.705
cy	thinks	A3	.839	
(A)	using a			
	digital			

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		1		T
	banking			
	service			
	would			
	improve			
	his or her			
	ability to			
	succeed at			
	work			
	The	B1	.700	
	degree to	B2	.879	
	which a			
Effort	person			
Expectan	thinks			
cy	using a			0.759
(B)	digital	В3	.841	
(D)	banking			
	service			
	will be			
	simple			
	The	C1	.865	
	degree to	C2	.812	
	which a		.012	
	user	С3	.812	
	believes			
	that			
Social	influential			
Factors	individual s drive people to			0.943
(C)				
	use			
	technolog			
	у			
	improvem			
	ents			
	The	D1	.916	
	degree to			
	which an	D2	.739	
	individual			
Facilitati ng Conditio ns (D)	is			
	convinced			
	that a			
	technologi			0.899
	cal and	D3	.957	
	organisati			
	onal			
	framewor			
	k is in			
	place to	ĺ		

	facilitate the use of the system			
	The	E1	.402	
Relative Benefits (E)	identified merits of using a digital banking service	E2	.832	0.708
	Risks and	F1	.880	
Relative risks (F)	about the outcome of the use of the innovation	F2	.886	0.862
	The degree to	BI1	.957	
Behavio ural Intension (BI)	which a person intends to engage in a particular behaviour	BI2	.680	0.798

• Normality Test of Data:

If the value of skewness and kurtosis is in between -2 and +2, and -7 and +7 respectively, the data is deemed normal (Hair, 2010). Table 2 shows that all of the factors'skewness and kurtosis values are within an accepted level, with values of skewness varies from -1.710 to 0.032 and values of kurtosis varies from -0.936 to 2.001 for the variables. These findings suggest that all of the items of the variables are appropriate with the study's sample.

Table 2: Normality Test

	A	В	С	D	Е	F	BI
N	210	210	210	210	210	210	210
	- 0.783		0.884	-0.805		- 0.655	- 0.936
Std. Error of Kurtosis	0.334						

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Skewness	0.032	-0.746	-0.990	- 1.710	- 0.294	- 0.470
Std. Error of Skewness	0.168					

Source: Primary Data

• Validity Test:

According to the guidelines, KMO value should be more than 0.7. The value of KMO, which is 0.794, satisfies the acceptability criteria of sampling for factor analysis, as shown in Table 3. Likewise, Bartlett's test of sphericity was found to have significant with a p<0.001, representing that the variables were sufficiently correlated.

Table 3:Results of Validity test

Kaiser-Meyer-Olkin I		Me	easure	of	Sampling	0.794
Acceptance						
Bartlett's	Test	of	Apprx.	chis	quare	956.515
Sphericity			Df			21
F			Sig.			.000

Source: Primary Data

• Testing of Hypothesis:

The analysis of Pearson's correlation was carried to test the significance between the independent and dependent variables. Table 4 shows that, the path coefficients of hypotheses 1, 2, 3, 4 and 5 were significant at a level of significance, p<0.01But, path coefficient of hypothesis 6 was not supported.

Table 4: hypothesis result

Hypothesis	Path	Pearson	Sig. (2-	Comment
		Correlation	tailed)	
HI	BI> A	.336**	.000	Supported
H2	BI> B	.612**	.000	Supported
Н3	BI> C	.590**	.000	Supported
H4	BI> D	.922**	.000	Supported
H5	BI> E	.506**	.000	Supported
Н6	BI> F	030	.000	Not Supported

^{**.} Correlation is significant @ 0.01 levels (2-tailed).

Interpretation: The above findings shows that
there is a positive association between
Performance Expectancy & Behavior Intention,
effort expectancy & BI, Social factors & BI,
facilitating conditions &BI and also between
Relative benefits & BI to use digital banking. But,
there is a negative significance between relative
risks associated with digital banking and
behavioral intention to use digital banking
services.

Findings:

 From the study, it was found that rural customers' performance expectancy, effort expectancy, social

- factors, facilitating conditions and relative benefits in digital banking has a significant effect on forming the favourable intentions towards usage of digital banking services.
- It was found that, relative risks involved in digital banking has a negative significant effect on forming the favourable intention of rural customers towards usage of digital banking services.

CONCLUSION

In fact, mobile banking is a very effective tool for providing the desperately needed financial services to the unbanked masses in rural areas, as service providers can take advantage of the high mobile penetration in these areas for quick financial the unbanked Dharwad rural inclusion of communities. According to the results, the expanded UTAT can forecast a customer's propensity to utilise digital banking. In particular, user behaviour is significantly influenced by performance expectations, effort expectations, social factors, and relative advantages, which in turn affect users' intentions toward digital banking. However, associated risks discouraged users from using the service. Thus, this study has provided valuable information to banks, MNEs, service developers, and software engineers to enhance digital banking system adoption among rural customers for financial inclusion by considering influencing factors.

REFERENCES

- [1] RajeshwariShettar (2019) "Digital Banking: An Indian Perspective" Journal of Economics and Finance, Vol. 10, Issue3, PP. 1-5
- [2] Rao,&ChilumuriSrinivasa. (2013, february 2013). Consumer Awareness in Rural India with special reference to E-Banking services of State Bank of India. PARIPEX - Indian Journal of Research, Volume 2, Issue 2
- [3] Rullis,&Hermanis. (2011). Internet Banking Quality: Marketing Possibilities and Customers' Loyalty. Management theory and studies for rural business and infrastructure development.
- [4] Santosh. B. Potadar, H. K. (2013). Emergence of e-banking in Rural Area. ASm;s international Journal of ongoing research in management & IT
- [5] Sohail, M. S., &Shanmugham, B. (2003). E-banking and customer preferences in Malaysia: An empirical investigation. Information Sciences, 150(3-4), 207-217.