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RESEARCH ARTICLE Effect of Digital and Financial Awareness of Household Womens on the Use of Fin-Tech in India: Observing the Relation with (Utaut) Model

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Abstract: Era of COVID-19 resulted in contactless transactions and extens ve use of technological applications. Similar was the case of Fin-Tech which has extensively been used by consulers a contact the globe for making transactions and other financial and economic needs. Although there is a lack of a parch to reflect these forms of evidence from the developing as well as Indian sides of the globe. On the oth r side, some studies indicated the Unified Household Acceptance and Use of Technology (UTAUT) model as the base oppreter mobile methods of transaction and Fin-Tech use. Hence this paper has been developed systematically to plate the financial literacy of household females from Generation Y with the use of Fin-Tech during the eve of CAV 19. For devising this relationship research has been induced with the UTAUT model and data have been placeted from married household females between twenty-four to thirty-five years of age. Results were analyzed brough MART-PLS which highlighted the financial literacy of Indian household females has a significant association with UTAUT model. However, the entire UTAUT model does not have a significant relationship with the use of Fin-Tech.

Keywords: SMART-PLS, Fin-T ch, VID-, Household females, UTAUT model & financial awareness

1. Introduction

In recent times technology became an integral part of the financial sphere. In fact, there is a well-known notion to highlight e linkage between finance and technology named as "Fin-Tech" Vasenska et al. ^[1]. Fin-tech can sim-

ply be defined as the innovation based on integration of finance and technology to provide liberty to consumers to access new products, markets, models and applications. This will not only have resulted in formulation of financial industry but also foster competition among elements of the industry, Daragmeh, Lentner & Sagi ^[2]. Technically

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explaining the purpose of Fin-Tech is to propose technological solutions that may leads to new business model in order to real world problems. Thus, the sector is progressing with a fast pace although the revolution started in twentieth century with the launch of automatic teller machine (ATM) by Barclay's Bank, Vasenska et al.^[1]. However, in recent times outbreak of COVID-19 resulted in tremendous growth of Fin-Tech sector as people seems reluctant to conduct physical transaction and face to face interactions, Daragmeh, Lentner & Sagi et al.^[2]. However, there are few studies that examine the impact of an outbreak of COVID-19 on the increased use of Fin-Tech e.g. Benni^[3], Hill, J. A.^[4]; and Fu, J., & Mishra, M.^[5] etc. However, most of the studies under this vein are from Asian sides of the world or not from specific genders as well as Asia. Hence the purpose of this paper is to uncover the impact of COVID-19 on use of Fin-Tech from India.

2. Statement of Problem

There are several studies which relate theories like Technology Acceptance Model (TAM), United Theory of Acceptance and use of technology (UTAUT), Technological Readiness etc. with the adoption of Fin-Tech, Setiawan, B. et al.^[8]. However, for adoption of Fin-Tech there is also a need of financial literacy, as the financial literacy is the prime tool which make user comfortable with inno tive products, Morgan, P. J. et al. ^[6]. On the other sin research from developed sides of the world faile o rep. higher level of financial literacy Morgan, P.J. In fact, researchers are unaware of any stuvy nich relate financial literacy with the use an noise mology, Morgan, P. J. et al. ^[6]. Thereft the is a need to explore the relationship between fine vial literacy and use of financial technology. However, p. rous studies also indicated that adoption of Fin-Tech was actually caused due to the technological orientation, Setiawan, B. et al.^[8]. Therefore, the two-fold purpose of this study is also to explore the base of relationship that either it is based on financial literacy or based on technological orientation.

Theoretical Framework

One of the initial studies conducted by Samartín, M. et al. ^[9] indicated that it might be men who mostly take financial household decisions. Although it is not clear and definitely there is a gap of understanding with respect to gender and their ability to take financial decisions. This postulate has been supported by Khan, K. A. et al. ^[10] that generations and sex have the key impact on the rate of technological adoption. On the other side previous studies e.g., Laywilla et al. ^[8] highlighted the Unified Theory of

Acceptance and use of technology (UTAUT) as the source to use Fin-Tech applications. Similar has been indicated by Hill, Binni, and Huang et al.^[4].

However, studies like Morgan, P. J. et al. ^[6] indicated the global relationship of the COVID-19 pandemic on the adoption of Fin-Tech; therefore, this study uses COV-ID-19 as the major predictor for the adoption of Fin-Tech during COVID-19 with serial mediation of UTAT model. Moreover, study uses Generation-Y to gauge the impact of the COVID-19 pandemic on adoption of Fin-Tech Generation-Y was found to have more technological orientation, even in comparison to Generation-Z^[10]. On the other side study of Latha, R. et al. [11], explores the linkage of UTAUT Theory as the source of adoption e-wallets from females in Jakarta. Results indicated that female perceives that use of e-wallet will make the purchase easier. The study was carried out during COVID-19; therefore, it is not vague to purvive that one of the reasons to use e-wallets was COY ID- Therefore, this study takes the reference of house, Id vives, Hardini, H. T et al. [12] for measuring the impact of financial literacy on use of Fin-Tech doing D-19. However, to gauge financial literacy rearrent work capitalizes only on the initial paran eter as the parameter (Financial Literacy) found on the ¹owe ¹ even in developed countries, Laywilla et al. ^[8].

3. Literature Review

The middle of the twentieth century was the era when we start observing the association of information technology with financial services. The initial step was taken by Barclays through the introduction of an automated teller machine, Daragmeh, A.^[2]. On the other side, there is welldeveloped literature to relate financial literacy and various financial & economic behaviors. Through research, the focus was significantly increased due to the economic downturn 2008-2009 which resulted in several scams and scandals associated with borrowings and investment activities, Morgan, P. J.^[6]. Similar is the case of the outbreak of COVID-19 which also resulted in economic downturn, Mirza, S., Sandhu et al. ^[13]. Thus, also enforces severe investigation towards the use of Fin-Tech e.g. Morgan, P. J. et al. ^[6]. Study of Fu, J., & Mishra ^[6] indicated severe download of financial applications by consumers all over the globe. However, according to the, study traditional banks gains more value as compared to the well-known Fin-Tech firms. Similar has been indicated by Yadav et al. [42], i.e. pandemic causes consumer shifts towards and massive shift has been observed inform of consumer preference towards mobile and digital forms of money transfer.

Though findings bit of findings by Hill ^[9] are different froms ^[5] as study indicated that banks in US tied knot with

Fin-Tech firms in order to survive the downturn. However, increase in the rate of development of Fin-Tech also raises the requirement of increase in consumer knowledge to deal with more sophisticated level of technology as well as products Fu, J. et al.^[5]. Although, generation found to be more inclined towards the use of technology as compared to Generation-Z Murugan P. Trinh et al. [7], while studies were failed to provide surety regarding more inclination of any particular gender towards the technology. However, recent studies highlighted gender orientation as the major predictor of technological inclination, Latha, R. et al. [11]. Linking the literature with the implication of UTAUT model it has been reflected that performance expectancy is a significant predictor of using technological applications for mobile payments, Saunders, M., Lewis et al. [14]. Similar has been reflected by the survey ^[43], while the other study by Dmitri et al. ^[15] indicated that effort expectancy is the prevalent predictor of the use of a mobile wallet.

4. Research Methodology

4.1 Research Design

The paper uses epistemology as the research philosophy as the purpose of the study is related financial literacy of household females with the use of Fin-Tech. These sort of studies were previously conducted in developed & western countries (e.g. Khan, K. A. et al. [10], similary there are also some studies which explores the linka, of UTAUT theory with the use of Fin-Tech e.g. Dr However, the linkage was rarely tested not entry in the stern and under-developed world but also for the linkage of financial literacy with UTAUT prode, nd its ociations with the use of Fin-Tech. There is relation with Hair Jr et al. ^[16], the philosophy of rearch is epistemology as the purpose of the study to do use the theoretical linkage as well as to optimize research work with reference to under-developed and eastern sides of the world. However, various parts of the research model were previously through a quantitative approach i.e. Mirza, S.^[13] and Setiawan^[8], and therefore the philosophical stance associated with the study is post-positivism Žukauskas, et al.^[19].

4.2 Sampling Design

The sampling design followed Prasad et al. ^[22] which was based on convenience sampling to collect information about digital financial literacy in India. However, the study was descriptive and no inferential outcomes were carried out. Therefore, in order to conduct the study effectively, researchers take the reference of Hardini and Bahtiar and yadav et al. ^[28] in order to collect data from housewives during the days of the pandemic. However,

the sample used by Yadav et al. ^[29] was only of hundred respondents which might not be sufficient to justify the results when the aim of study is to link financial literacy with UTAUT and then to use of Fin-Tech in the days amid COVID-19. Hence this study takes the reference of Yadav et al. ^[29] and Hair et al. to use 10-10 rule. After calculating the number of arrows pointing towards each indicator the sample size for the study is 300.

4.3 Questionnaire

Research Instrument is a hybrid of different studies like Yadav et al.^[25] and Yadav et al.^[29] for financial literacy, Khan et al. ^[10] and Yadav et al. ^[28] are used to reflect the use of technology and use of Fin-Tech. However, the instrument has been based on the Likert scale in order to comply with ^[27] and ^[44] to avoid delay in data collection the questionnaire been circulated physically as well as through online mo. Initially, 400 questionnaires were circulated though nomber of questionnaires received were 15% less than a number of questionnaire circulated i.e. 340. Therefore the response rate was 85% but among 340 rec. d questionnaires 22 were not adequately filled and que maires were rejected in the process of data cleving. Therefore, this study has been based on 300 ponses received from household wives on the topic of in cial literacy and its linkage with the use of Fin-Tech adav et al. [43,[44].

4.4 Software and Statistical Technique

Afthanorhan, W. M. ^[23] and Hasan M. E. et al. ^[24], use regression in order to determine results based on the financial literacy of household females amid COVID-19. Similarly, a correlation was used ^[21] and therefore applying SMART-PLS in order to incorporate structural equation modeling in this study is adequate enough to be applied. Similar has been reflected, that SMART-PLS is one of the most effective software when researchers have lesser knowledge regarding the theory and it is also the best alternative of CB-based SEM. Hence, use of CB-Based SEM by yadav et al. ^[30] might effectively be replaced by PLS-Based SEM.

5. Statistical Testing and Analysis

Through Figure 1 it has been highlighted that all the outer loading for the elements is more than 0.708 which is the benchmark criteria for the qualification of elements in descriptive statistics ^[31]. Although one may also have allowed to retain elements having outer loading of 0.5 or above ^[23], hence all the elements are adequate enough to be retained in the analysis.



Figure 1. Outer Loadings and Copfirm. actor Analysis (CFA)



Table 1 is indicating that the values of coefficient of determination (R-Square) as satisfactory for all the cases as the values are higher than the minimum benchmark of 0.25 and also the moderate value of 0.5. In fact, for some of the cases, the value of the coefficient of determination

s are than the substantial benchmark for the criteria Athanorhan, W. M.^[23]. Therefore, the in the light of these parameters the model is adequate enough to be tested as the change in predictor (IV) is resulting in significant change in the DVs as seen in Table 2.

Table 2 is used to reflect construct reliability, composite reliability, and convergent validity. The table includes three (3) reliability measures i.e. Cronbach's Alpha (α), Goldstein rho & composite reliability. However, according to Nunnally ^[21], the values of Cronbach's Alpha and Composite Reliability must be greater than 0.7 and Goldstein rho is also termed as a better reliability evaluator than Cronbach's Alpha, Žukauskas ^[20] and Yadav et al. ^[41]. Therefore, in association with these criteria table is suffi-

Construct Reliability and Validity					
	Cronbach's Alpha	rho_A	Composite Reliability	Average Variance Extracted (AVE)	
Effort Expectancy	0.893	0.898	0.934	0.825	
Facilitating Conditions	0.813	0.819	0.889	0.728	
Financial Literacy of House Hold Females	0.920	0.921	0.944	0.808	
Performance Expectancy	0.874	0.876	0.913	0.725	
Social Influence	0.841	0.849	0.905	0.760	
Use of Fin-TECH During COVID-19	0.893	0.898	0.933	0.823	

ciently fulfilling the requirements of internal reliability (α), construct reliability, and composite reliability. However, the table is also effective in reflecting convergent validity through composite reliability and AVE as these two in addition with outer loadings are the main criteria for assessing convergent validity, Ab Hamid et al. ^[18]. Although, AVE with value of 0.5 or above might alone be a potent predictor of convergent validity, Yadav et al. ^[32]. Thus on the bases of this criterion table is sufficient in reflecting internal reliability, construct reliability, composite reliability, and convergent validity, Yadav et al. ^[42,43].

5.1 Discriminant Validity

Table 3 is indicating discriminant validity through Heterotrait-Monotrait Ratio and the ratio is perceived as the best tool to highlight discriminant validity by Hasan et al. ^[24]. Moreover, according to the table, the maximum value is 0.797 which is lesser than the 0.85 i.e. threshold criteria of discriminant validity through the Heterograft-Monotrait ratio. Therefore, legitimate to declare that table is sufficient enough to reflect the discriminate validity through Heterotrait-Monotrait Ratio.



Table 3. Discriminant Validity

Figure 2. Path-Analysis and t-statistics

5.2 Mean, STDEV, T-Values and P-Values

Table 4 is indicating the path coefficient which has a range of -1 to +1. Vale of -1 is to indicate a negative relationship and +1 is to indicate a positive relationship, while 0 indicates no relationship Hardini et al. ^[12]. The table also includes t-values and p-values to induce the relationship as indicated by, Saunders, M. et al. ^[17] that the p-value must be lesser than or equal to 0.05 and the t-value must be greater than or equal to 1.97 Hasan M. et al. ^[24]. Therefore, through these criterion three variables (components), associated with the UTAUT model including effort expectancy, performance expectancy and social influence does not have an impact on use of Fin-Tech during COVID-19. However, the financial literacy of household hold the females has a positive relationship with all the components of UTAUT.

5.3.Mean, STDEV, T-Values, P-Values

Table 5 is used to indicate specific indirect relationships in order to validate claims based on the mediating relationship of the UTAUT model. The table has the same criteria of boor-strapping, t-values, and p-values to indicate the relationship. However, the purpose is to reflect the impact of predictor (IV) through a mediator(s) on DV. A similar has been done in order to show mediating relationship by Prasad et al. ^[22], which highlighted the rule of thumb of 0.05 or lower for p-value and 1.97 or above for t-value. Therefore, in the light of the criteria, facilitating condition is the only variable (component) of UTMT Theory which is indicating the mediating relationship between the financial literacy of household females and the use of Fin-Tech during COVID-19 ^[41].

Table 4. Boot Strapping (Path Analysis, t-vales & p-lues)						
	Original Sample (O)	Sample Mean (M)	St daro ev. (STDEV)	T Statistics (O/ STDEV)	P Values	
Effort Expectancy -> Use of Fin-TECH During COVID-19	0.129	0.146	0.124	1.039	0.299	
Facilitating Conditions -> Use of Fin-TECH During COVID-19	0.608	0.	0.102	5.984	0.000	
Financial Literacy of Household Females -> Effort Expectancy	0.831	0.028	0.044	19.058	0.000	
Financial Literacy of Household Females -> Facilitating Conditions	59	0.866	0.025	34.357	0.000	
Financial Literacy of Household Females -> Performance Expectancy	0.817	0.813	0.041	20.079	0.000	
Financial Literacy of Household F nales Social Influence	0.838	0.837	0.042	20.150	0.000	
Performance Expectancy -> Use of Fin-1 During COVID-19	0.166	0.169	0.099	1.676	0.094	
Social Influence -> Use of Fin-TECH During COVID-19	0.064	0.042	0.146	0.437	0.662	

Table 5 Specific Indirect Effect

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	Original Sample (O)	Sample Mean (M)	Standard Deviation (STDEV)	T Statistics (O/ STDEV)	P Values
Financial Literacy of Household Females -> Effort Expectancy -> Use of Fin-TECH During COVID-19	0.107	0.119	0.102	1.049	0.295
Financial Literacy of Household Females -> Facilitating Conditions -> Use of Fin-TECH During COVID-19	0.528	0.529	0.089	5.908	0.000
Financial Literacy of Household Females -> Performance Expectancy -> Use of Fin-TECH During COVID-19	0.135	0.137	0.081	1.678	0.094
Financial Literacy of Household Females -> Social Influence -> Use of Fin-TECH During COVID-19	0.053	0.033	0.123	0.434	0.665

6. Analysis

Through Table 4 and Table 5 it has been reflected that the financial literacy of household females is significantly related to all the parameters of the UTAUT model. Although only one component from the UTAUT model i.e. facilitating condition is positively associated with the use of Fin-Tech during COVID-19 Yadav et al. [43]. Moreover, serial mediation of facilitating conditions is also effective in relating the financial literacy of household females with the use of Fin-Tech during COVID-19. Hence on the bases of these outcomes, it is effective to indicate that the use of Fin-Tech is actually based on the level of financial literacy rather than technological inclination Yadav et al. [44]. Therefore, the claim formulated problem statement of this study is effective as serial mediation is significant only in the case of facilitating conditions Ashish Kumar et al.^[45] and Ashish Kumar et al.^[46].

That means facilitating conditions aids financially literate females to use Fin-Tech more often during COVID-19. Another fold of the study also indicated that financial literacy is the major force behind the technological inclination and also to prefer Fin-Tech for contactless transactions.

7. Results & Discussion

The findings of the study are consistent with the dications of Morgan and Trinh^[7], as financia Nitera positively correlated with the UTAUT model. The mean financial literacy makes people accept and yse, ch. gy. However, relating the model of UTAUT with the use of Fin-Tech in COVID-19 only his tligh d the positive correlation between facilitating conc Tech during COVID-19. This is convert with one of the prime purposes of this study to reflect that the UTAUT model was not actually the cause of preference for Fin-Tech by household females. Similar was highlighted ^[33] as Financial Literacy is required in order to make people comfortable with innovative products. Moreover, findings are based on household females of Generation Y. & when financial literacy and the UTAUT model are associated positively then legitimate to declare findings consistent with, Yadav et al. ^[40]. Consistency with these relations resulted in inconsistency with, Yadav et al. [39], as the findings indicated the impact of COVID-19 on the use of Fin-Tech rather than technological orientation. The statement is valid as the findings of the study are only indicating the mediating role of facilitating conditions rather than any other variable of the UTAUT model. Therefore, legitimate to declare the study is inconsistent with, Yadav et al. [34]. The same author ^[35] and Yadav et al. ^[36], indicated performance expectancy and effort expectancy as the potent variables associated with the adoption of Fin-Tech.

8. Conclusions

This is one of the initial studies with reference to India that tries to relate the impact of financial literacy of household females with the use of Fin-Tech during COVID-19. Although there are some studies e.g. Yadav et al. ^[37] which highlighted the use of Fin-Tech during COVID-19 by Generation-X. & generation X are also claimed by the head of the families. Therefore, further studies might relate the UTAUT model with the use of Fin-Tech during COVID-19. Moreover, analysis of the model by taking generation as a control variable might also produce a significant impact. There are some limitations, because the focus of this study was only on the small sector entrepreneurs in India. The fore, research can be conducted on a larger scale involving the performance of entrepreneurs in India to gain additional k wieldge in this area of study.

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Conflict of Interest

The authors of this research would like to declare that there are no conflicts of interest linked with this research, and this research was not sponsored by anyone that could have influenced its outcomes. As the researchers of this study, the authors validate its novelty assert that this study has not been published previously, and verify that it is not presently being considered for publication elsewhere.

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