Financial knowledge and Literacy or Demographics: What determines the use of Financial Services in Pakistan?

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Abstract

Objective: This study was aimed at evaluating the impact of knowledge related and demographic variables on the use of financial services in Pakistan. **Methods/Statistical Analysis**: The researchers interviewed 150 heads of households with the help of a structured interview schedule, from different parts of the country. The respondents were selected by using the stratified purposive sampling method. The data was analyzed with the help logistic regression and with help of Nvivo-10. **Findings**: The financial knowledge and information, income level and trust level have positive impact on the decision of using financial services and products in the country. On the contrary, general education level and numeric financial literacy, general level of education, although have an insignificant impact on the decision of using financial services and products. Results of the study highlight the importance of knowledge and information about financial services and products in the decision regarding the usage of financial services and products. Previous studies have focused on numeric and mathematical literacy, which, according to findings of this study is of lesser importance in promoting financial inclusion. **Application/Improvements:** Results from the study can be utilized by policy makers for devising effective programs for promoting financial literacy and for promotion of financial inclusion in the country.

Keywords: Education, Financial, Income, Knowledge, Literacy

1. Introduction

The study of factors affecting the usage of financial services and products or participation in financial markets by households has recently received paramount attention, which comes into the ambit of personal finance. Personal finance is the field of finance that studies the way individualmakes use of "financial instruments" to achieve their objectives¹. Households are supposed to decide on a number of economic and financial matters which are not the subject matter of corporate finance². The use of financial services and products is highly acknowledged as a factor that contributes to a country's overall economic wellbeing³. However, the situation with respect to the use of financial countries is not very encouraging, including Pakistan, as only 11% of the population has access to bank accounts in comparison to that of India where 48% of the people use

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bank accounts, whereas only 4.8% of women in Pakistan have a bank account as compared to the women of other countries of the region where the percentage of women using bank accounts is 37.4%⁴. Finance is vital for inclusive growth and the financial market is the mother of all markets; hence it is critical to attain increased financial inclusion in an economy⁵. Contemporary literature has identified number factors responsible for financial exclusion and therefore, it seems logical that these factors are studied in detail because they probably contribute to financial exclusion in a country. Studying the causes of the low financial inclusion ofindividuals is of critical importance. Personal finance studies the financial activities of households carried out by them to achieve their varying objectives¹.

This study is concerned with investigating the impact of people's financial literacy and knowledge and demographic factors like education, income level, age, dependency ratio and urban rural differences on their decision regarding the usage financial services in Pakistan. The research questions that are supposed to be answered on the basis of this study are as under:

- Does "Numeric Financial literacy" have any impact on financial inclusion?
- Does the "level of financial knowledge and information" have any impact on financial inclusion?
- Do "demographic factors like education; income level, age, dependency ratio and geographical location" have any bearing on financial inclusion or exclusion?
- Does "Trust of people in the financial institutions" have any impact on financial inclusion?

2. Financial Literacy and financial inclusion:

Before studying the impact of financial literacy on financial inclusion or exclusion of individuals, it is pertinent to have a look at how researchers define financial literacy. Financial literacy could be defined as the capacity of individuals to use personal financial related information⁶. Financial literacy is different from financial knowledge⁷. The term financial literacy was first coined in 1997⁸. Financial literacy may be defined as the capacity of individuals to know and use financial services and products.

Situation of financial literacy is very discouraging in the Pakistan⁹. The need for financial education has increased in the wake of more sophisticated and complex financial environment¹⁰. Financial illiteracy amongst young people is very worrisome as it may have long term negative economic impacts¹¹. The availability of valid empirical proof to support or refute these theoretical propositions about the financial literacy and use of financial services is still limited¹². The impact of financial literacy on the use of financial services is yet to be explored¹³. Individuals possess different levels of financial literacy14. Financial literacy is highly correlated with the degree of portfolio diversification². Financial literacy positively influences informal and formal savings¹⁵. Understanding the consumer's insight and approach towards insurance and promoting an insurance culture is important in flourishing the insurance business^{16.17}. The economic wellbeing of an individual is dependent on his financial decision. On the basis of findings of different researchers, it can be said that for making an informed decision, knowledge is a prerequisite. "Financial literacy "has a positive impact on the intention to save¹⁸. Financial literacy skills my help consumers in avoiding excessive borrowings¹⁹.

3. Financial Knowledge and Information

Financial knowledge "is the stock of knowledge acquired and which is related to essential financial concept and products"⁶. However, other researchers do not differentiate the two concepts. The effective use of financial products and services necessitates the acquisition of financial knowledge and insufficient financial knowledge may result in inefficient financial decisions which may be costly³. The study partly derives the theoretical support from the formal theory of knowledge and action. The theory proposes that every action is preceded by knowledge, even a simply worldly action just like opening as age lock that cannot be performed without knowledge and therefore, complicated decisions require certain amount knowledge²⁰.

Applying this theory to financial decision, which is an important decision in one's life, it can be said that sufficient knowledge about different financial matters require sufficient knowledge. Likewise applying to this study, we propose that using financial services must be preceded by sufficient information and knowledge. And once people are given with initial knowledge and information, they will feel more motivated towards the usage of formal financial and services and they will use more such services due to the effect of "informative actions".

4. Trust and the usage of Financial Services

An individual's decision to deposit his/her money in a bank account is a faithful decision. Therefore, such decisions require certain level of trust in financial institutions. Trust is the expectation that an agent will perform in the best interest of the principal^{2,21,22}.

The researchers further argue that an individual's trust is subjective, that varies from situation to situation and from individuals to individuals. The use of banking services requires certain level of trust². The researchers claimed that they have introduced method of measuring trust. They observed that majority of individuals remain hesitant to invest in stock market due to lack of trust. Trust influences the individual's decision to hold a savings account²³.

5. Demographic Factors and the use of Financial Services

Researchers have observed that education is one of the contributing factors towards financial inclusion. The level of formal education has a positive significant impact on savings behavior of individuals²⁴. The uneducated individuals hesitate to trust others². There are a variety of factors are responsible for limited stock participation,

like lack of trust, low education level and risk aversion²⁵. Some investors make financial mistakes because of lesser education²⁶. Individual characteristics like "education, life expectancy, dependency ratio and the social security system" do not affect it27. Observed among other factors, education level has a positive impact on the habit of savings²⁸. "Education and the free acquisition of information are important in paving the way for increased investment in stocks²⁹. The head of the household is has the power for making life insurance purchasing decisions $\frac{30.31}{10}$. There are a number of constraints, like distant geographic allocation, unfavorable and harsh rule, limited working time, procedural difficulties, degrading attitude of staff and complicated pattern of transaction³². In urban areas, household savings have a positive and significant impact with age, income, and size of land holdings³³. This notion is not based on reality that poor cannot save³². Age is one of the determining factors that help in explaining the different saving patterns over time³⁴.

6. Research Methodology

This part of the study is aimed at devising a scheme of steps for analyzing the impact of general education level and the level of financial knowledge and information on financial inclusionin Pakistan. For achieving the objective of the study, the following step taken: In the first part of the interview schedule, questions were asked by interviewers, aimed at measuring the numeric financial literacy of the respondents and the questions were adopted from³⁵. "The competent use of financial services requires additional knowledge, including awareness of consumer rights and understanding the functions of financial institutions."^{3,36}. Keeping in view the findings of these researchers, questions, were asked about the working of financial institutions like banks, insurance companies and their services and products.

If a respondent was able to answer about, at least one of the functions of these institutions and at least one of their products and services, he was considered as having knowledge and information about financial institutions and services. Further, researchers have also identified demographic factors as significant determinants of the usage of financial services and products, therefore, in the second part of the questionnaire, contained closed ended questions, asked regarding the demographic profile of the interviewees. The respondents were considered as users of financial services if they have been or have ever used any of the financial services of banks and financial institutions like commercial banks and insurance companies. For analyzing the suitability of the interview schedule for collecting the required data, a pilot study was conducted. During the pilot study, 25 people were interviewed. The interview schedule was improved on the basis of the results of the pilot study by excluding some high level financial literacy as none of the respondents answered them correct. The improved interview schedule was

Table 1.

sued for interviewing 150 (other than that the respondents interviewed in pilot study) respondents. The data were evaluated with the qualitative data analysis software NVIVO 10. As the dependent variable (the usage or nonusage of financial services), was a dichotomous variable, logistic and profit regression were used for evaluating the impact of independent variables on the dependent variables. In qualitative studies, ample size should be at last 31 interviews³².

7. Results and Discussion

The data gathered through conducting interviews has been analyzed with the help of NVIVO-10, software

| S. No | Numeric literacy Question | | Answer |
|-------|---|----------------|--|
| 1. | Suppose you had Rs. 100 in a saving account and the interest rate was 2% per year. After five years, how much do you think you would have in the account if you left the money to grow? | A. B. C. | More than Rs.102 Exactly Rs.102 Less than Rs.102 |
| 2. | Imagine that the interest rate on your saving account was 1% per year and inflation was 2% per year, after one year, how much would you be able to buy with the money in this account? | А. В. С. | More than today Exactly the same Less than today |
| 3. | Please tell me whether this statement is true or false: "Buying a single company's stock usually provides a safer return than a stock mutual fund. | * * | True False |

 Table 2.
 Numeric literacy and the usage of financial services

| Dank Assess | Bank Account Incorrect Correct | | ons Inflation Questions | | | Investment Questions | | | | |
|--------------|--------------------------------|----|-------------------------|----|-----------|----------------------|--|--|--|--|
| Bank Account | | | Incorrect Correct | | Incorrect | Correct | | | | |
| No | 23 | 12 | 30 | 5 | 29 | 6 | | | | |
| Yes | 60 | 55 | 85 | 30 | 70 | 45 | | | | |
| | Insurance Policy | | | | | | | | | |
| No | 39 | 22 | 49 | 12 | 42 | 19 | | | | |
| Yes | 45 | 44 | 66 | 23 | 73 | 16 | | | | |

Table 2 Continued

| Formal borrowing | | | | | | | | | |
|------------------|----|----|----|----|----|----|--|--|--|
| No | 60 | 16 | 49 | 27 | 52 | 24 | | | |
| Yes | 55 | 19 | 66 | 8 | 63 | 11 | | | |

widely used for analysis of qualitative data. The following questions contained in Table 1 were aimed at measuring the numeric financial literacy of individuals. The results contained in Table 2 indicate that majority the of respondents gave an incorrect answer to the question posed for measuring numeric literacy but even then they had bank accounts or were using other financial services. Likewise respondents who answer correctly to financial literacy questions were not in use of financial services and products. On the basis of above results and discussion, it may be said that numeric financial literacy has an insignificant effect on the decision of the people regarding uses of financial services as indicated by the results, the p>.05 as contained in the value of B show mixed effect.

8. The impact of Financial Knowledge and information on the Usage of Financial Services:

The results, contained in Table 3, were obtained on the basis of questions:

- What do you know about the functions of a bank?
- What do you know about different types of bank accounts?
- Have you opened a bank account?

| Daula Assessed | Knowledge | about of Banks | Knowledge about Bank Accounts | | | | | |
|-------------------------------|-----------|----------------|-------------------------------|-----|--|--|--|--|
| Bank Account | No | Yes | No | Yes | | | | |
| No | 23 | 12 | 30 | 5 | | | | |
| Yes | 2 | 113 | 2 | 113 | | | | |
| Borrowing from Banks | | | | | | | | |
| No | 23 | 53 | 29 | 47 | | | | |
| Yes | 2 | 72 | 3 | 71 | | | | |
| Buying an Insurance Policy | | | | | | | | |
| No | 49 | 12 | 32 | 29 | | | | |
| Yes | 3 | 86 | 1 | 88 | | | | |

 Table 3.
 Impact of financial knowledge on opening of bank accounts

• Are you currently maintaining a bank account?

Table 3 shows that knowledge of about financial institutions and the services provided by them has certain impact on the usage of financial services and products by such institutions. Like as 87 and 83 respondents who had knowledge about banks and banks accounts had opened a bank accounts oppose toonly 02 people who either did not have knowledge about the working of financial institutions and types of banks account or they did not like to share their views, had opened banks accounts. There is a probability that someone else may have opened bank account for these individuals. The same is the case with other financial institutions and the services provided by them. The logistic regression results contained in that financial knowledge significantly affect financial inclusion as the p<.05 and the B value is positive. The results are also supported by other researchers, understanding the consumer's insight and approach towards insurance and promoting an insurance culture is important inhelping the success of insurance services^{16,38}. The Table 4 contains results about the level of trust of respondents in financial system and their decision of financial inclusion. According to the results, trust level has positive impact on financial inclusion. The logistic regression results contained in also confirms this as the p<0.05 and β is 0.941.

| Use of Financial Services | Having Trust in Financial institutions | Not Having Trust in Financial institutions | Urban | Rural | |
|------------------------------|--|---|-------|-------|--|
| No Insurance | 50 | 18 | 13 | 22 | |
| No Borrowing | 50 | 17 | 34 | 32 | |
| No Bank Account | 22 | 13 | 20 | 41 | |
| Insurance | 65 | 17 | 75 | 40 | |
| Formal Borrowing | 65 | 18 | 45 | 29 | |
| Bank Account | 89 | 26 | 75 | 14 | |

Table 4.Trust and financial inclusion

 Table 5.
 Educational level and the use of financial services

| Financial Services | Masters | Primary | Matric | Inter | Bachelor | M.Phil. | Middle |
|------------------------|---------|---------|--------|-------|----------|---------|--------|
| No Bank Account | 08 | 4 | 4 | 5 | 6 | 3 | 5 |
| No Borrowing from F.Is | 13 | 16 | 12 | 11 | 9 | 3 | 12 |
| No Insurance policies | 10 | 16 | 9 | 7 | 9 | 6 | 4 |
| Bank Account | 50 | 8 | 9 | 14 | 19 | 12 | 3 |

| Financial Services | 1-30000 | 30000-60000 | 60000-80000 | 80000 and above |
|--------------------|---------|-------------|-------------|-----------------|
| No Insurance | 23 | 11 | 14 | 13 |
| No Borrowing | 19 | 22 | 25 | 22 |
| No Bank Account | 27 | 18 | 5 | 7 |
| Insurance | 3 | 18 | 26 | 42 |
| Formal Borrowing | 5 | 23 | 17 | 17 |
| Bank Account | 11 | 25 | 26 | 53 |

 Table 6.
 The impact of income level on financial inclusion

 Table 7.
 Impact of dependency ratio on the financial inclusion

| Financial Services | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 and above |
|--------------------|----|----|----|----|----|----|----|---|----|--------------|
| No Insurance | 3 | 11 | 16 | 5 | 7 | 4 | 5 | 5 | 2 | 3 |
| No Borrowing | 3 | 2 | 8 | 5 | 8 | 12 | 13 | 6 | 10 | 2 |
| No Bank Account | 1 | 1 | 7 | 4 | 5 | 4 | 11 | 4 | 1 | 1 |
| Insurance | 15 | 15 | 11 | 5 | 3 | 3 | 15 | 8 | 1 | 3 |
| Formal Borrowing | 13 | 14 | 12 | 3 | 9 | 3 | 6 | 9 | 0 | 5 |
| Bank Account | 25 | 16 | 12 | 13 | 12 | 11 | 9 | 5 | 6 | 6 |

 Table 8.
 Age and the use of financial services

| Use of Financial Services | Age = 18-40 | Age = 41-50 | Age = 50 and above |
|----------------------------------|-------------|-------------|--------------------|
| No Insurance | 15 | 25 | 21 |
| No Borrowing | 21 | 27 | 18 |
| No Bank account | 23 | 25 | 23 |
| Insurance | 23 | 46 | 20 |
| Formal Borrowing Bank account | 22 20 | 38 60 | 16 35 |

| Independent Variables | β | S.E. | Wald | Df | Sig. | Exp(β) | P-Value | | |
|-----------------------------------|------------|----------|---------|--------|--------|----------|----------|--|--|
| Answer to questions about: | | | | | | | | | |
| Interest | -0.293 | 0.562 | 0.272 | 1 | 0.602 | 0.746 | 0.64 | | |
| Inflation | -0.847 | 1.142 | 0.55 | 1 | 0.458 | 0.429 | 0.51 | | |
| Investment | 2.033 | 1.153 | 3.11 | 1 | 0.078 | 7.636 | 0.88 | | |
| Working of financial institutions | 5.4210 | 1.0650 | 25.9140 | 1.0000 | 0.0000 | 226.0000 | 0.904 | | |
| financial products | 5.6350 | 0.8420 | 44.7870 | 1.0000 | 0.0000 | 280.0000 | 0.9493 | | |
| | Education: | | | | | | | | |
| Primary | -2.93 | 1.441 | 4.133 | 1 | 0.042 | 0.053 | 0.095494 | | |
| Middle | -0.856 | 0.495 | 2.989 | 1 | 0.084 | 0.425 | 0.458464 | | |
| Matric | 0.082 | 0.238 | 0.12 | 1 | 0.729 | 1.086 | 0.683876 | | |
| Intermediate | 0.836 | 0.303 | 7.594 | 1 | 0.006 | 2.307 | 0.821286 | | |
| Bachelor | 0.127 | 0.107 | 1.397 | 1 | 0.237 | 1.135 | 0.693338 | | |
| Master | 6.433 | 1869.162 | 0 | 1 | 0.997 | 621.982 | 0.999194 | | |
| M.Phil | -2.777 | 1227.396 | 0 | 1 | 0.998 | 0.062 | 0.109928 | | |
| Location: | 1.386 | 0.406 | 11.685 | 1 | 0.001 | 4 | 0.863 | | |
| Age: | 377 | .512 | .544 | 1 | .461 | .686 | 0.666667 | | |
| Constant | 1.070 | .335 | 10.239 | 1 | .001 | 2.917 | 0.744617 | | |

| Table 9. | Logistic | regression | analysis |
|----------|----------|------------|----------|
|----------|----------|------------|----------|

Trust is positively associated with participation in financial markets^{2,39}. Results contained in Table 4 further and confirms that location has a significant impact on the usage of financial services and products as the results indicates that for urban areas the p<.05 for and the B is 1.386 as whereas for rural areas the p>0.05 and the B is 0.46. Likewise the probability of usage of financial services for urban areas is 81% whereas for rural areas it is 61%. It con-

firms the findings of other researchers' like³¹. The Table 5 contains the results about the impact of general education on the use of financial services. The results indicate that level of education of individuals has a positive impact on financial inclusion as the p<0.05 and β = 6.433 shown by the results of logistic regression. Results contained in Table 6 indicate that financial inclusion increases with increasing level of income. The Table 7 shows that people, who have very low number of dependents, save or invest lesser amount when compared to those people who have average number of dependents. The reason may be that such people care less worried about their future expenditures. The Table 8 contains results about the impact of age on the use of savings and investment services. The results indicate that middle aged people ranging from 41-50 are the major participants in the financial markets. Financial capability is expected to increase with age⁴⁰. However, the logistic regression results contained in Table 9 shows that age has no significant impact on the usage of financial services in Pakistan.

9. Conclusion

It can be safely concluded that the role of numeric financial literacy in determining the level of financial inclusion was very low. It means that mere awareness of the basis financial terms like inflation, interest and investment has very low impact on the decision about financial inclusion. On the other hand information and knowledge about financial institutions, their working and services provided by them have a greater impact on the usage of financial services. The other control variables showed mixed results. Whereas people residing in rural areas are discouraged to use financial services while people in urban areas more frequently use basic financial services.

9.1 Limitations of the Study

Owing to resource limitations, the study is limited only to a few selected cities of Pakistan. The sample of the study is comprised only of men; representation has not been given to women of Pakistan. The major reason for this limitation was that in rural areas, communicating with women by a stranger is not appreciated. In future, researchers may carry out studies, on the basis of large sample size, giving equitable representation to different segments of the society. Apart from including demographic factors like income, dependency ratio and gender, psychological factors like trust in financial institutions and religious orientation may be used as independent variables for studying financial market participation in the country.

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