Exploring Relationship between Impulsive Personality Traits and Financial Risk Behavior of Individual Investors

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Abstract: It is believed that an individual is rational. He takes financial decisions after thorough evaluation of all available investment alternatives given their risk level and thereby maximizes his wealth. However, Several studies in the recent years have proved that rationality is not the only factor influencing financial decisions of an individual. There are many other factors influencing it. This study seeks to understand impulsive personality trait as a factor affecting financial risk behavior of individuals. It studies degree of risk that an investor can assume in impulsivity. Every individual is impulsive to some extent and this impulsivity affects his decisions including financial decisions. In this study, these impulsive traits are identified and further their impact in financial risk behavior has been studied. It has been found that impulsivity and risk level are positively correlated. Further, no statistically significant difference was found between these impulsive personality traits and varying degrees of risk.

Keywords: Risk, Impulsive Personality Traits, Financial Risk Behavior, Barrat Impulsiveness Scale 11

Introduction

Investment in today's era is the need of the hour. Every Individual invests some portion of his hard earned income into some fruitful investment. The objective and need of investment may vary but every individual cuts his present consumption for something better in future. The idea behind investing is that money will put to use in a manner that it will grow. This happens because someone else is willing to pay for the use of such funds. Keeping money as cash involves a cost as its value decreases overtime due to inflation. So, Investment does not only increases funds but it also protects the worth of money. Investors invest for future returns but there may be difference between expected return and realized return. This deviation is called risk. A fixed deposit in a bank may be considered as risk less. However, investment in stock market is risky. An investment option having higher risk factor e.g. stock market will entail more return and vice versa. Individuals differ in their perceptions towards financial risk. There are many empirical studies on factors affecting investment choice or financial risk bearing of individuals. Subramaniam VA, Athiyaman T (2016) identified demographic factors such as age, education, investment experience and income of the investors are correlated with their risk tolerance. Smita Mazumdar (2014) found risk taking ability of investors increases with financial knowledge. Syed Tabassum Sultana and Pardhasaradhi (2011) identified factors like marital status, earnings, occupation and number of dependents. Sushant Nagpal and B S Bodla (2009) found lifestyle as a significant factor. Chitra and Ramya Sreedevi (2011) found a strong relationship between personality traits and method of investment. It revealed emotional stability as one of the significant factor in influencing investment choice and equity as the most preferred investment.

Numerous studies on risk behavior has proved significant relationship between personality traits and risk tolerance of an individual. In this study, we seek to explore relationship between impulsive personality traits and financial risk behavior of an individual using Barratt Impulsiveness Scale 11 (BIS 11) through a questionnaire.

Abbreviations and Acronyms

Barrat Impulsiveness Scale 11 -BIS 11

Literature Review

Author	Research Objectives	Sample and Respondents	Methodology	Result of the study
Thomas and Rajendran (2012)	To know the relationship between BB & K five-way personality types and type of investment choice	systematic sampling method 225 responses	Regression analysis, chi- square test and factor analysis	personality trait of an investor influences the investment choice and the five dimensions, namely adventure, celebrity, individualist, guardian and straight arrow which are significantly related to investor choice and investment type. It is also advised to know the investor personality before investing to avoid unwanted biases in their investment choice
Huei - Wen Lin (2011)	To analyse the relationship between psychological traits, demographics and financial behavioural biases of individual investors of Taiwan stock market and to evaluate the impact of big five personality traits and the demographic variables on investment biases	Convenient sampling of 554 individual investors.	Structural Equation Mode	The analysis revealed that, to avoid losses due to disposition effect and herding the investors with stronger neuroticism personality and conscientiousness personality should set up a stop-loss point and a lock-gain point. The investors with stronger extraversion and openness personality traits should confirm the market information and make up their minds on investing so as to avoid forming the biases of herding and overconfidence. The study further concluded that investment biases of individual investors are significantly related to four personality traits as well as some demographics.
Manish Mittal and Ram krishna Vyas (2011)	To find psychological reasons for gender differences in preference for risk and investment decisions?	Judgemental and convenient sampling method was used to collect data from 428 investor	Mean, ANOVA, chi-square and Mannwhitney U-test were applied to find out their attitudinal difference towards investing.	Women preferred low risk investment and men showed preference towards high risk investment.
Sarah Brown and Karl Taylor (2011)	To analyse the relationship between household finances and personality traits to know the impact of personality traits on	Secondary Data Source: 'British Household Panel Survey' conducted by the		It was found that extraversion and openness to experience influences the decision regarding unsecured debts and financial assets.

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				and risk aversion was found
				to be not significant, which implies that women are more
				risk-averse than men
Thomas H. McInsish (1982)	To measure the personality characteristics and locus of control in relation to portfolio riskusing beta values.	3,000 investors using a random sampling	Multiple regression technique to find out the significant factor in terms of risk tolerance	Gender was not significant in explaining risk tolerance level and a negative significance of age was found with personality characteristics and risk. Personality characteristics and locus of control were used to find out the relationship in their portfolio selection and concluded that there was no difference between male and females
				risk tolerance level.

Objectives Of the Study

Below objectives were identified after going through the extensive literature:

- To identify impulsive personality traits in individuals.
- To study the saving patterns of individuals.
- To find the relationship between impulsive personality traits and financial risk behaviour of Individual decision makers.
- To find if impulsive personality traits have relationship with varying degrees of risk.

Research Methodology

The study is based upon a Primary data collected through a survey in Delhi region to identify the impulsive personality traits of individuals and relate them with their financial risk behavior. Descriptive statistics were obtained and further analysed using Correlation and Kruskal Wallis H Test.

Population and Sample

The Barratt Impulsiveness Scale (BIS-11; Patton et al., 1995) has been used to find impulsive personality traits in terms of six first order factors namely Attention, Cognitive Instability, Motor, Preservance, Self Control and Cognitive Complexity on the basis of a questionnaire designed to assess the personality/behavioral construct of impulsiveness, composed of 30 items describing common impulsive or non-impulsive (for reverse scored items) behaviors and preferences. Further, 10 more objective questions were designed to assess the financial risk bearing level.

On the basis of responses obtained each individual was given a score in the first order factors of impulsiveness. Similarly, financial risk behavior score was also obtained with a minimum score of 15 (weights were assigned to each question). Individuals obtaining risk score of less than 20 were categorized as least risk seekers and increasing risk score implies increasing risk preference of individuals, maximum risk score observed is 31.

Data and Sources Of Data

The study is based upon Primary data collected through a questionnaire from different Businessmen, Professionals and service holders in Delhi in the month of July2017. To collect the data, A total of 215 questionnaires were distributed by e mails and by hand. Out of which 176 were returned . Among them, the questionnaires which contained incomplete information were not considered, remaining 100 responses were used for empirical study. Demographic Variables Age: 30% of population falls in age group of 20-25 years, 42% in 25-30years, 11% in 30-35 years, 7% in 35-40 years and 10% is above 40 years. Gender: 56% Male and 44% Female. Occupation: 5% Business, 45% Professional, 50% Service class.

25% of respondents are earning more than Rs. 50,000/- per month, most of them save more than 30% of their income and invest more in high risk high return profile securities. 18% of respondents are from income group in 35000-50000 per month opting for regular income with low level of risk. Below this are the people who save approximately 10%-20% of their income and prefer to keep their money in saving bank accounts. It can be said that risk propensity increases with the income level as many of the earlier researchers has concluded.

Theoretical Framework

Impulsivity is a multifactorial construct that involves a tendency to act on a whim, displaying behaviour characterized by little or no forethought, reflection, or consideration of the consequences. Impulsiveness is the act on instinct or without thinking.

Dr David Lewis-Hodgson defined impulsivity (or Impulsiveness) as the act of saying or doing things on the spur of the moment. A personality trait characterised by behaving without giving sufficient consideration to the likely consequences. As a concept, impulsivity covers a wide range of poorly conceived, prematurely expressed, unduly risky, or inappropriate behaviours that often have undesirable and undesired outcomes. It is a trait many would sooner deny than defend.

We prefer to see ourselves as thoughtful, rational, beings. To believe that we take important decisions only after careful reflection and slow deliberation. In fact we far more frequently act on an emotion-driven impulse rather than after logical and reasoned reflection. The impact of this impulsivity is seen in financial decision making. Every personality is found to be impulsive to some extent. In our survey, we studied impulsive behaviour of individuals and categorised them into six factors namely; Attention, Cognitive Instability, Motor, Preservance, Self Control and Cognitive Complexity as per BIS 11 Scale. We further identified the relationship between these impulsive personality traits with financial risk behaviour at varying degrees of risk from low to high.

Hypothesis

Alternate Hypothesis: There is a significant relationship between impulsive personality traits and financial risk behavior of individuals.

Statistical Tools

Data obtained from population is further structured. Descriptive statistics was obtained to study attributes like minimum, maximum and mean personality score. "Motor" was found to be most common impulsive factor. Further Correlations were obtained and Kruskal Wallis H Test was applied to test statistically significant relationship between impulsive personality traits and varying degrees of risk.

Descriptive Statistics

From the data obtained through survey, descriptive statistics has been used to find maximum and minimum personality score. As evident from above table 1, mean score is highest for "Motor". Most of the respondents in the sample are found to have "Motor" as impulsive trait. It may further be inferred that "motor" is the most common first order impulsive factor found in population.

Correlation and Kruskal Wallis H Test In order to test the hypothesis, Correlations were obtained between each impulsive factor and risk score. Pearson's correlation for all factors (range .011 to .176) is positive. It can be said that impulsive personality factors are positively correlated with financial risk. Table 2.1 to 2.6 provide the detailed figures. By applying Correlation we may conclude that "Attention" is highly correlated with risk behaviour (Pearson correlation = .176 and Spearman correlation = .100) & Cognitive Instability is least correlated (Pearson correlation = .011 and Spearman correlation = -.002).

Further, Kruskal Wallis H Test is applied to test statistically significant relationship between impulsive personality traits and varying degrees of risk. To apply this test risk scores were converted into risk categories. Risk score below 20 was considered as low risk, 20-24 as moderate and 25 & above as high. No significant difference was found between impulsive personality factors and risk categories as *p* value ranges from .087 to .538 (Table 3.2) all are greater than 0.05. Table 3.1 provides mean rank of each factor at three degrees of risk.

Summary Of Results

Financial risk score is positively correlated with impulsive personality factors, Altenative hypothesis is accepted. Further mean rank of risk do not vary to a great extent at different degrees of risk. Kruskal Wallis H test gives all p values greater than .05 implying no statistically significant difference between expected and actual degrees of risk for all impulsive traits.

Discussion and Conclusion

Various previous studies has examined many factors affecting financial risk bearing. These significant factors include demographic factors (*Subramaniam VA*, *Athiyaman T*, 2016), *financial knowledge*(Smita Mazumdar, 2014), Personality traits (Chitra and Ramya Sreedevi, 2011) and many others. Although these studies have brought to the light many significant factors but least attention was paid towards impulsive personality traits. This study adds a new significant factor to the existing literature. The relationship of impulsive personality factors and financial risk bearing holds true. These results are supported with empirical evidences and add a new significant factor to the existing literature. Since the results are based upon a sample size of 100 respondents in the Delhi state, the relationship may not hold true in every situation. We may conclude that keeping all other significant factors into consideration an individual's investment choice is also influenced to a certain extent by his impulsivity.

Limitations and Future Research

This study brings to the light impulsive behaviour of individuals and its impact on financial risk behaviour. Neverthless, the study suffers from several limitations that should be considered in future research. First, the present study completely relied on Barrat impulsiveness Scale 11 as a measure of impulsivity, other scales might have been used together for more elaborated results. Secondly, an individual's impulsive behaviour may change overtime as his habits and thinking changes. Further, this study does not considers the factors giving rise to different impulsive behaviours. Future research should explore more about impulsivity as a factor influencing financial risk behaviour.

Tables

Table1

Descriptive Statistics

	N	Range	Minimum	Maximum		Std. Deviation	Variance	Sko	ewness	Kı	urtosis
	Statistic	Statistic	Statistic	Statistic	Statistic	Statistic	Statistic	Statistic	Std.	Statistic	Std.
									Error		Error
Attention	100	11	5	16	10.26	2.281	5.204	021	.241	064	.478
cognitive_instability	100	9	3	12	5.98	1.917	3.676	.503	.241	210	.478
Motor	100	16	7	23	13.55	3.735	13.947	.533	.241	255	.478
Preservance	100	8	4	12	7.19	1.549	2.398	.341	.241	.087	.478
self_control	100	15	6	21	12.81	4.240	17.974	.163	.241	-1.126	.478
cognitive_complexity	100	12	5	17	11.48	2.665	7.101	538	.241	.011	.478
risk_score	100	16	15	31	18.08	2.919	8.519	2.170	.241	5.395	.478
Valid N (listwise)	100										

Table 2.1 Attention Symmetric Measures

		Value	Asymp. Std. Error ^a	Approx. T ^b	Approx. Sig.
Interval by Interval Ordinal by Ordinal N of Valid Cases	Pearson's R Spearman Correlation	.176 .100 100	.089 .100	.994	

Table2.2 Cognitive Instability Symmetric Measures

		Value	Asymp. Std.	Approx. T ^b	Approx. Sig.
			Error ^a		
Interval by Interval		.011 002 100			
Ordinal by Ordinal N of Valid Cases	Spearman Correlation	-11	.104	017	.987°

Table 2.3 Motor Symmetric Measures

		Value	Asymp. Std.	Approx. T ^b	Approx. Sig.
			Error ^a		
Interval by Interval	Pearson's R	.069	.136	.686	.494°
Ordinal by Ordinal	Spearman Correlation		.107	.302	.763°
N of Valid Cases		.030 100			

Table 2.4 Preservance

Symmetric Measures

	Value	Asymp. Std.	Approx. T ^b	Approx. Sig.
		Error ^a		
Interval by Interval Pearson's R Ordinal by Ordinal Spearman Correlation N of Valid Cases	.149 .096 100	.127 .106		

Table 2.5 Self Control

Symmetric Measures

	Value	Asymp. Std.	Approx. T ^b	Approx. Sig.
		Error ^a		
Interval by Interval Pearson's R	.138	.091	1.383	.170°
Ordinal by Ordinal Spearman Correlation	.182	.097	1.834	.070°
N of Valid Cases	100			

Table2.6
Cognitive Complexity
Symmetric Measures

1100		Value	Asymp. Std.	Approx. T ^b	Approx. Sig.
			Error ^a	10	
Interval by		.114	.067	1.141	.257°
Interval	Pearson's R				
Ordinal by	C	.079 100	.095	.784	.435°
Ordinal	Spearman Correlation				
N of Valid Cases					

- a. Not assuming the null hypothesis.
- b. Using the asymptotic standard error assuming the null hypothesis.
- c. Based on normal approximation.

Table 3.1 Kruskal-Wallis Test

Ranks

Kanks									
Factors of	risk_category	N	Mean Rank						
impulsiveness	ļ								
	Low	81	48.48						
Attention	Moderate	13	52.92						
Attention	High	6	72.58						
	Total	100							
	Low	81	48.83						
aganitiva ingtahility	Moderate	13	56.92						
cognitive_instability	High	6	59.17						
	Total	100							
	Low	81	47.53						
Motor	Moderate	13	65.92						
Motor	High	6	57.17						
	Total	100							
	Low	81	50.03						
Preservance	Moderate	13	45.88						
Freservance	High	6	66.83						
	Total	100							
	Low	81	49.49						
self control	Moderate	13	50.96						
sen_control	High	6	63.08						
(@)	Total	100							
	Low	81	50.13						
cognitive_complexit	Moderate	13	46.65						
y	High	6	63.83						
"	Total	100							



Table 3.2 **Test Statistics**^{a,b}

_	- 2 ttt 12 5 t 1 t 5						
		attention	cognitive_inst ability	motor	preservance	self_control	cognitive_com plexity
	Chi-Square	4.038	1.479 2	4.876	2.382	1.239	1.538 2
	Df	2		2	2	2	
	Asymp. Sig.	.133	.477	.087	.304	.538	.463

a. Kruskal Wallis Test

b. Grouping Variable: risk_category

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