RISK TAKING INVESTMENT AS THE INTERACTION EFFECT OF LOSS AVERSION AND INFORMATION (PILOT TEST)

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Abstract

The purposed of gallet pest of this remounts is in sent the purposetion of host previous and inflatmentors in the disciplinal of still tailing overational. The inflatmentor solutioned by inventor was preserve at negative determined by the low or degli level of exil tailing inventorial. Furthermore, the method of pulse had all this removable to a supercounted behavior within subject design. If the hypothesis to a respected which was mount to distrement the line or high risk on the participants stating part. Distrement and employed whose with Handerson amount to distrement the line or high risk on the participants to the gain plants between which the foreign and the line of the participants of the gain plants to the gain plants of the lines from an algorithms of the later than a sugarfactor of the lines of the solution of the lines are the lines and later to the gain and loss domain to risk taking. Moreover, we would be loss over the later domain to risk taking. Moreover, the lines of inspecting that not not provide the most of the participant of inspective products to the real taking of the number of participants that may only eleven. This mounter was then already in the investment of the later construction of the later construction of the solution may be also be considered to the real taking with the managing and constructing come psychological factors dualing with homological plants and only appropriate by external factor has often the convention on a specification of participants and construction of an always of the convention of the convention

Exposed: risk taking guire domain. Into alternate, police fort.

1 Introduction

The return and risk level of investment determines the courageous level of someone to the risk taking level of investment. [1] said that risk taking could be classified into two, namely less risk taking and greater risk taking. Some one classified as risk averte is the one who does not have a courage in risk taking. On the other hand, risk seeking is the one who has a courage in risk taking.

The contageous level of someone in risk taking of investment is influenced by mani-factors. [2] said that personally some one tended to behave refractive that might lead him to make a systematic mistake in decision making. This statement was confirmed by [3]. He said that the decision making for investment was control [1] by caperness, purpose, prejudice bias, and emotion

Decision making of investment is influenced by many factors. Therefore, the researcher limits on two factors only, namely loss aversion and information. According to [4], loss aversion in prospect theory showed that a person-tomeone would hold loss longer and sell stock more quickly in the gain time. When someone encounters loss he will tend to be more cautious and sensitive rather than to face gain although nominally they are the same [5] and [6].

Furthermore, the research conducted by [7] was found that individual investor tended to have loss aversion in decision making of investment. Making hile, the research sends of [8] was found that investor in gain domain showed that there was a risk averse. On the other hand, when he was in a position of loss domain, he would tend to show risk seeking, [1], their research result showed that in loss position a participant tended to be courageous to take a risk but on the other hand, in gain position it did not show the significance of risk taking [1].

The other factor which influenced the courage level or the level of risk taking in decision making is information. The research conducted by [3] showed that information was performed through a picture or a story at first either exciting or not. Memorable the research conducted by [30] and [31] showed that positive information influenced someone in make a decision more quickly due to the exact of intuitive and heuritic decision wastang. On the other hand, with regative information tominus, trended to make his decision later due to the grown of decision undergo that spens to be mire intronal and malyie. Moreover [12][33] and that information influenced the risk taking of investor, these was a tendency of negative information influencing risk sectors; and positive information influencing or positive information and impleasing or negative one distant seguificantly affect to the risk taking.

Based on the research gap which was used as research base, that was so raise the phenomena on how investor takes a decision on risk taking in his revenuescut affected by loss aversion or information.

Moreover, this paper was written as the following steps. At first, istemings review and hypothesis was presented as the supporting theory of this paper. These methodology included experimental design, number of participants, treatment and incomer. The west was resourch would describe, remains from taxon and conclusion. However, this paper writing was used to explain the steps how this research was conducted in this post text.

2. Literature Review and Hypothesis

Traditional france has a basic ascumption that all participants both financial participants, testimtion and market agent that has minoral behavior. The other assumption is that all participants or market agent know that all information is still available. One of the malitional finance theories is efficient market theory (EMH) by [14]. This theory was said that besteadly a person shrays conduct reasonable [15]. The reason is that the assets value, for example the price of stock is smally commuted with the best information about its fundamental value. Furthermore, the traditional finance trend explained that it was in a definite condition.

However, the definite condition in traditional finance was not capable of explaining while it was encountered with indefinite intertainty condition. Many factors could influence this intertainty condition, one of their was psychological impact. Furthermore, the uncertainty condition could be explained in behavioral finances [144]. Behavioral finance was a stience discussing about financial behavior which was affected by psychological report of behavioral finance behavior that a person as an individual in insections market does not about about behaviorably and be is not always to a definite market due to the psychological bias. [184] [59]. Furthermore, [2] and that investor had a tendency of biased behavior by making systematic minimizes in investment decision. [18] and that one of the factors of behavioral finance. [17]someome did investing was affected by his behavior and most [40] taid a person. I a man was in uncertainty condition that might cause his decision change from that of prelimed to the dreamy of fundamental economy.

In fromith the explanation above, it could be concluded that haved on [20], there was a difference pencipal between traditional finance and behavioral finance. They used that multipost finance was based on acconomic theory. Means bills, behavioral finance was focused on pre-chological aspect combined with economic theory.

One of the theories belonged to fielus total finance was prospect theory [4][21]. This theory said that everybody had a different tendency when he had to make a decision between the two prospects, gain and loss. The hatte procipal of prospect theory might cause connects have a tendency not to behave rationally. He was anyelling to work hard to obtain gains rather than lesses. This busic principal was explained by [22] in a hypothetical value function. As it was stated by [23] that matrixdain person tended so make some consideration when he was in a loss position rather than gain. This might encourage him to have risk scelaing when he was in a loss domain and risk averse when he was in gains domain. Different risk causes by different domain could discremine the risk taking level of investor equalities dealing with no council [23], [24].

Moreover, [3] also said that some factors that of an exed to influence and change a process in deciuou making of investment such as overcomfidence. Having affect, reference dependence, loss aversust overcuction, under quaction, see. Those of some others could be more from its disnography, such as education, jumine, age, income, environment etc. Some factors that often used to influence the risk taking level were such at loss aversion and information. [22] said that loss aversion happened if someone could hold loss longer has be usuald selfhis stack asoner when the price rose or he had got name profit. This statement was also supported by some other opinions such as [16], [7], [6]. Their opinions busically stated that how aversion was a kind of deep regiot. This would make somebody be exist contions when he had a line rather than a pleasure when he got some gain-pools although its value was about the same. [23] said that loss assumes might be caused by the two faction of income, gain and loss, in detail, this statement could be explained in 'A. Hypothesical Value Function' by [22].

When semeous gen some information, she or he is usually influenced by his or her own psychology especially from affective dealing with emotion and cognitive dealing with intellectual knowledge. As it was stated by [24], [27] perspective taking was explaining how someous processed the information in decision making which was influenced how someous comprihended, macrid, and received some perspective from one similar encountered. Furthermore, information could be positive or exciting, and negative or not exciting, [9]. The kind of influentation could influence the level of risk taking. Unevening information encountered someone to make a decision longer because it required national and analytical throught ([11], [10]). On the influence hand, exciting information right influence the decision making more quickly because it was affected by intentive and hearing thought ([11], [10]).

Loss Aversian determined much on the fevel of milk taking investment [22]. In determining the coarage of risk taking, investor was influenced by domain problem. When investor was in gain domain, he tended to have few risk taking. On the other hand, taking the other taking position, he tended to have legly risk taking. As it was stated in a hypothetical Waker [22]. The low risk taking when it was in gain domain, the investor tended to sell his stock soon. On the other hand, when it was in loss domain with high risk taking, the investor would tend to hold his stock larger. This was as the research result conducted by [22]; [24], [11] Therefore, this explanation became the reference of the research hypothesis.

[11] Participant in gain condition had lower risk laking rather than that of loss condition.

Information either possove or negative him a significant effect on the level of risk taking. The research result conducted by [11]; [12]; [10] showed this positive information influenced structure is decision to be low risk taking. On the other hand, negative information could influence nemiconal's decision to be high risk taking. Basically, the research results conducted by [13]; [29]; [20]; [20] showed that negative or surroring information neight cause participance is behavior to have high risk taking or risk necking. Meanwhile, the research results conducted by [28], [31], [20], [10] basically stated that positive or unexciting information affected to the less risk taking or risk averse.

142: Furticipants provided with posttore information would have lower risk taking rather than those of regation one.

Loss aversion of gain domain as it was shown in security grice could increase significantly. This condition encouraged someone to do decision making with low risk taking [4]; [24]. This might be aimed at finding a safe position by solling stock sooner to get some gain or profit. Furthermore, positive information affected to the low risk taking ([11], [17], [10], If that gain is supported by obtaining positive information, it will encourage to do low risk taking or petting more risk averse.

On the other hand, if loss position is due so the fall price, it may cause financial loss. If this happens, someone will tend to do high risk taking [22], [24]. The act of high risk taking is done to hold up imager security because it it expected that the price will rise again. Furthermore, negative information will affect to high risk taking ([11], [12], [10]. Then participant in loss position, by will get negative information about the movement decrease of stock price so that he will tend to take a courageous risk or risk neckans.

Blased on the explanation above, the research by posheris is an follower

162: The participants in gain condition and provided with positive information have lower tolking than shose in loss condition and negative information.

Methodology

Experiment Design

[2]This research employed experiment procedure, within subject design and matrix 2x2 factorial design. Meanwhile the independent variable was risk taking. The two factors to be manipulated to determine whether the risk taking was low or high were Loss Aversion and Information. Each factor had two levels. The two levels of loss aversion were gain and loss [4]; [23]; [16] [185]. Furthermore, information consisted of positive and negative level [1]; [9]. This research was divided train two groups, namely gain and lost.

Participant

The participants of pilot test consisted of 11 (eleven) students of S.1 (5 boys and 6 girls) majoring in financial management who had already taken some subjects like financial management and portfolias investment at University Muhammudiyah Malang. Those students were classified into two groups. Six participants belonged to gain group (consisting of 3 boys and 3 girls) and the five other belonged to loss gauge (consisting of 2 boys and 3 girls). Their average ages were about 24 years old.

Treatment

The research treatment amployed 4 (four) combinations of treatment. The manipulation of loss aversion and level gain was sinuted with the price presentation of stock that was higher than that of buying and in veverse, the level loss with the price presentation of stock that was lower than that of buying [32]; [33]. Furthermore, information manipulation with positive level was situated with the movement increase of previous stock price and in reverse, the negative level with the movement decrease of previous stock price [1].

Measures

Before conducting ANOVA test, the first step of that we had to do the T-test trat to find the gender difference, then we determined alpha index [34]. Alpha index was used to determine the level of risk taking from each gain and loss group. Furthermore, the positive alpha index showed in the low risk position and in severae, the regardye alpha index showed in the high risk position. Meanwhile, the formula of Alpha index used by [34] was as follows:

Alpha lades,
$$L=(GL-S,I)$$
TA

(1)

Note

G1 = The total number of sold stocks when gain poofs or winner

S.I = The total number of held stocks when loss or loser

TA = The total number of stocks owned by every participant

After alpha index was found the next analysis was in do variant analysis test by using ANOVA. ANOVA test was used to know whether there was a difference between the four groups of treatment from the two participant groups, gain and loss. The difference among the four groups of treatment could happen if the significance with p-value < 0.05 was the significance limit used in pilot test of this research. After ANOVA test, the next step was conducting the mean treatment by employing the descriptive statistic test. Then, we conducted hypothesis interaction test by using post hoc with Bonferrom model to determine the effect of independent variable to dependent variable.

Result And Discussion

T-test Based on Its Gender

T-lest based on its gender was used to test the equality or to know whether there were some differences or not based on its gender among the four groups or treatment combination. Furthermore, the result of t-tast could be performed on Table 1 below; Table 1: The t-test based on its Gender

		atsic I	: The t	-test	assed on its	Conder			
Information	Test for Equality of Variances		T test for Equality of Means						
	F	Sig		ar	(2-tailed)	Mean Diff	Std Error Diff	95%Confidence Interval	
								Lower	Upper
RiskT-I- EqualVariance As- somed	16	.71	1.88	4	13	.24	/13	11	.58
RiskT-2Equal Vari- ance Assumed	81	.42	51	4	.93	01	.07	3.19	.18
RiskT-3-Equal Vam- ance Assumed	17.13	.03	62	4	58	10.	0.16	-,62	.42
RiskT-4Equal Vari- ance Assumed	.69	.47	1.34	4	27	.75	.56	-1.03	2.52

Sweet discovered

Table 1 above showed that the homogeneity by compleying the Lavane's test from fromment group 1.2 and 4 excluded buildness group 3 should be significance with p-value. Odd of appells and limit. This is general might care the bosomy arise of perfections. The test of frontenent group 1 up to tracked group 4 showed the arguificant value with p-value. Odd appells and limit. This model showed that they are required on a difference between boy and gut perhapsist. The highest standard error of frontenent group 4 was \$55.8 is Manuschild, the tracked group 1.2 and 3 was still below 1.7%. This small that the homogeneity based on gender had aboutly fell-filled the impursement and criteria of life-story experiment research.

ANOVA Test

The resists analyses test of ANOVA so pilot test more constituted to determine whether these was a risk taking difference between those treatment groups or not. Furthermore, the various test senits of ANOVA could be seen to Table 2 fealow.

TABLE 2: Risk Taking ANOVA Variant Analysis

Risk Taking	Sum of Squares	df	Mean Square	- F -	Sig
Between Greep	4.934	3	1.645	[4,08]	000
Within Group	2.102	18	117		
Total	7,036	21			

Source : dam processed

Table 2 above showed that the result of ANOVA with total df 21 consisted of between group with df = 3 and within group with df = 18. Based on the variant analysis of ANOVA, it could be found that F value was 14.081 with its significance of 0.000 smaller lower than its significant limit used in pilot test, that was 0.05. This result could be concluded that there was a difference of risk taking among the four treatment groups. Therefore, this had already fulfilled some requirements required to do the following next test.

Mean Contrast

Mean contrast was undertaken to do testing each hypothesis of the research. Mean commissi consisted of risk taking test that was based on alpha index [34] and hypothesis interaction test. This alpha index showed the level of risk taking of each participant group, that was gain and loss group. Farthermore, this interaction test showed whether or not there was a significant effect of each hypothesis. Meanwhile, the result of mean contrast of this research was presunted in Table 3 below

Table 3: Mean constant insurantion of Loss Augustes, Information and Risk Taking

Mean kontrain	hypothesis	Risk Taking	Mean diff	Std Error	Sig
Cash Va Loss	ш	1172 1/3 -386	360	207	167
Positivelnf Vs negativelnf	112	1038V Vs - 877	1.155	397	DAO
Guin_Positivelet' Vs Litas_Negativelet	10	Va	1.155	207	.000

Source: dam percessed

The test result of hypothesis 1 based on alpha index of gain group with gain manipolision showed a positive score star was 1721. This score was considered to have the low-risk taking. Meanwhile, the from group with loss manipolision showed a negative score, that was - 5%. This score was considered to have a high risk taking. Furthermore, the result of post loc-with Banferron model of hypothesis 1 showed that the loss aversion both its gain and loss domains did not have any effect on its risk taking because its significance of 0.087 > 0.05 was a significant limit of this research.

Furthermore, the text result of hypothesis alpha lades 2 of gain group with positive information manipulation showed a positive score, that was 1989 and this score was classified to have a low risk taking. Meanwhile, the loss group with loss manipulation showed a negative score, that was - 586 and this score was classified to have a high risk taking. Furthermore the result of post hoc with Bottlemoni model of hypothesis I showed that the loss aversion both in gain and less distant did not have any offect on risk taking because its significance of \$1.087 > 0.05 was a significant limit of the research.

The test result of hypothesis alpha index 2 to gain group with positive information manipulation showed that the positive score of 10389 was classified as a low risk taking. Meanwhile, the loss group with negative information manipulation showed that the negative alpha index of -877 was classified as a high mik taking. Furthermore, the test result of hypothesis alpha index 3 to gain group with gain enargulation and positive information showed that the positive score of -055 was classified as a less mik taking. Meanwhile, the test result of hypothesis alpha index 3 to loss group with less manipulation and negative information should that the negative score of -1099 was classified as a high risk taking. The must of post hoc with Burderrosi model to hypothesis 2 and 3 both to gain group and loss one had a significant effect to the risk taking with its significance of 0.000 < 0.05 as its significant limit used as plot test of this research.

The test result of hypothesis 1, 2 and 3 based on the result of alpha under above supported the prospect theory stated by [23] [4]. This theory stated that an investor in gain domain tended to have low rate taking but when it was in loss domain, it tended to have high risk taking.

Based on table 3 above, it could be explained that the level of risk taking from hypothesis 1 showed that when an investor was in gain domain with the manipulation of clock price which tended to increase the risk taking would tend to be less. This low risk taking could be seen from its positive alpha index. On the other hand, when an investor was in loss domain with the manipulation of staul, price which tended to decrease, the risk taking would tend to be high. This high risk taking could be seen from its negative slight index. As it was stated by [16] that a person/someone would tend to be more sumstave to something decrease than the increase of his wealth or riches. Furthermore, this apparent result also supported the other researches conducted by [24] [11]. [5].

Moreover, [23],[4] unid that risk averse at gain domain, it would remove to be risk seeking choice. This result was appropriate with the prospect theory as it was explained in 'A Hypothetical

Value smed by [4][2]. Meanwhile [24] also said that when an investor was in gain domain penisture, he would stand to avoid the risk. Furthermore [1], their research result aboved that when an investor was in a loss domain. In would tend to have a cointage to take a risk or right risk taking. This areals also supported the research result combined by [5]. However, this research result was not supported with the hypothesis interaction test aboveing this at loss averation manipulated with gain or loss direase in fact did not have significant effect in the risk taking. This showed that in decision making a participant was not only inflamed by the gain or loss but also some other factors out of this condition, such as psychological aspect. Furthermore, the result of hypothesis test and intimetron test of this research did not support the research possit conducted by [21],[4], [24], [1].

The level of risk inking from to pothesis 2 showed that during the measures when a seas provided with managulation and positive information showed that investor leaded to have law mile taking Moreuver, the few risk taking was shown from the positive alpha index. On the other hund, when it was mestipolated with registre information, investor would tend to have high risk taking. This Nighrun, taking could be seen from the negative alpha sides. This had already been appropriate title file. theory of hypothesical value stated by 1221. They said that it the gain or positive position, uncome would tend to have low risk taking radius than he was provided with mostive information or in delightful / unexciting information. The result of alpha index war supposed with the test result of hypothetical interaction where both positive and negative information had a significant effect to the risk taking. Purthermore, \$100 in his research said that negative information would influence the participant. to make he decision forger. Meurockile, the research result conducted by [10] supposed the research conducted by [11] stated that the participant obtaining the information in the form of repeative framing would show his usualytical tendency. Thurselove, he would send to comider with most rasional thought before doing something. Moreover, the research result conducted by [24] showed that negative framing tended to have nuk senting rather than positive one. These there statements showed that negative. information could influence someous to keep holding his stock longer because he was afraid of setting. lots and expecting to wait a positive information that would provide him state gain or profit.

The level of tisk taking from hypothesis 3 showed that when the treatment was manipulated with gain domain (the stock price tended to tracease and positive information) in was found that invititor tended to base from tisk taking. The leve risk taking aimld be seen from its positive alpha stuke. On the other hand, when the measurem was transpolated with loss domain (the stock, prior tended to decrease and negative information), it was found that investor tended to have high risk taking. The high risk taking could be seen from its menutive alpha index. This result finding was appropriate with the thoors of a hypothesical value stated by [4]. This theory and that the position which treated to be positive, it would tend to have low trisk taking notice than in a negative position. This alpha index was supposed with the sen result of hypothesical interaction because although the treatment of it either in a gain condition and was provided with positive information or in a love condition and was provided with negative information are in a love condition and was provided with negative information, had a significant affect to the level of mak taking. This theory in fact top-possed the research must combined by [11], [12], [10]

5. Condinion

Based on the research result, it could be muchaded that in line with loss or regain; information, it would have a significant effect or the risk Based on the countries result, it could be concluded that in line with the risk taking stocistion in investment, it could be explained in lens aversion and information. In general, Risk Taking was affected by loss aversion and information. Loss Aversion during manager-lation with gain or loss did not have an affect to risk taking. However, participants in gain condition tended to have live risk taking rather than in loss condition. Both positive and acquative information had in affect to the risk taking.

Participants in gentile information condition tended to have letter title taking or title average as their man participants being provided with negative information who had a sendency of high title taking or title taking. When both account managed and note gain and information managed and managed to the control information or managed and taking. Participants who neers in gain point on and point or mation would tend to have less sink taking (title everse). On the other hand, participants managed tend to less and negative information would tend to have high risk taking (title seeking).

Limitation And Future Research

The pilot test functions of this research test dealing with the total number of participants. There were only 16 (eleven) students of S. I program of management majoring in finance. This experiment was conducted in the day time (in the afternoon) so that flore was some majorance effect due to the tredness from their prior activities that had so be done in the morning.

In the fisture, the research on the risk taking is expected to be capable of involving some other purchelogical aspect especially dealing such emotion aspect as a treatment samable besides loss aversion and information. This might make us know the level of somebody is unsation that might affect the courses level of investment risk taking

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