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## DIGITAL LITERACY, PRIVACY VIOLATION EXPERIENCE AND THE IMPACT ON ONLINE PURCHASE INTENTION

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### ABSTRACT

The purpose of this study is to explain the effect of digital literacy and consumer privacy violation experience on the online repurchase intention of millennial consumer groups in Denpasar City and Badung Regency, Bali. The population in this study is a group of millennial consumers in Denpasar City and Badung Regency who have shopped online. The sample size used was 200 respondents by purposive sampling method. The analysis technique used is descriptive statistical analysis and moderated regression analysis (MRA). The results of this study indicate that digital literacy has a positive and significant effect on Online Repurchase Intention, while the privacy violation experience has a negative and significant effect on Online Repurchase Intention. Privacy violation experience moderates (in this study weakens) the effect of digital literacy on online repurchase intention among millennial consumer groups in Denpasar City and Badung Regency.

### KEY WORDS

Digital literacy, privacy violation experience, online repurchase Intention.

Current technological developments are very closely related to the internet. The internet can provide changes in social life in society, how people communicate and different business opportunities (Arumsari, 2017). The presence of large e-commerce and marketplaces with enormous capital for industry sizes in Indonesia, such as Shopee, Tokopedia, and JD.ID, Lazada, Blibli, and Bukalapak are examples of the many large marketplaces that have been established in Indonesia. The recent phenomenon is not only large marketplaces that have sprung up but also many e-commerce players who use personal accounts on social media as their business activities, such as Instagram, Facebook, TikTok and Twitter. Companies can be said to be successful when they can create repurchase intentions in the minds of consumers so that repeated and continuous purchases occur.

Repurchase intention is defined as a consumer's assessment of repurchasing the same, similar or different products from an e-commerce platform (Wanga et al, 2018). A consumer who gets a positive response to past actions will be strengthened by having positive thoughts about the actions he has received, enabling individuals to make repeated purchases (Pujiati et al, 2016). Hellier et al. (2003) stated that repurchase intention is a person's planned decision to repurchase a service, taking into account a situation that will occur and accompanied by a level of preference. According to Thamizhvanan and Xavier (2013), online shopping intention is a desire in consumers to make transactions online. Repurchase has various properties according to the level of resistance that the product has (Ndubisi and Moi, 2005).

In online shopping activities, repurchase intention is largely determined by the digital literacy of consumers. Digital literacy is understood as an audience skill in consuming information. Higher digital literacy and lower privacy violation experience should increase consumer online repurchase intention. However, several previous empirical studies have stated that consumers' concerns about privacy do not have consistent behaviour. This discrepancy is referred to as paradoxical privacy, this can be caused by a lack of consumer knowledge about procedures for protecting privacy or a lack of sensitivity to various threats or privacy distortions (Ananda Dwitha and Widodo A.S, 2018).



With this phenomenon, this research was conducted to explain the influence of digital literacy which consists of Familiarity with technical aspects, awareness of practices carried out by e-commerce, and understanding of privacy policies on online repurchase intention and explaining the influence of consumer privacy violation experience in moderating digital literacy aspects of online repurchase intention for millennial consumer groups in Denpasar City and Badung Regency, Bali.

Based on the phenomenon and theoretical studies, the research hypothesis is as follows:

- H1: Familiarity with technical aspects has a positive and significant effect on online repurchase intention;
- H2: Awareness of e-commerce practices has a positive and significant effect on online repurchase intention;
- H3: Understanding of privacy policies has a positive and significant effect on online repurchase intention;
- H4: Privacy violation experience has a negative and significant effect on online repurchase intention;
- H5: Privacy violation experience weakens the influence of Familiarity with technical aspects that influences online repurchase intention;
- H6: Privacy violation experience weakens the influence of awareness of e-commerce practices on online repurchase intention;
- H7: Privacy violation experience weakens the influence of understanding about the privacy policy on online repurchase intention.

## **METHODS OF RESEARCH**

The type of this research is associative research. The locations chosen for this study were the city of Denpasar and Badung district because these two locations could reflect the activities of Balinese people in general with different socio-economic backgrounds, such as understanding and using online transactions that are quite intense, so that they are considered to have digital literacy and privacy violation experience in carrying out these online shopping activities.

The subjects in this study were people who had done online shopping on sites such as Lazada, Shopee and other similar sites, while the object of this research is digital literacy and privacy violation experience and consumer online shopping behavior.

In this study the independent variables are Familiarity with technical aspects (X1), Awareness of practices carried out by e-commerce (X2), and Understanding of Privacy Policy (X3), the dependent variable is online shopping behaviour (Y), the moderating variable is consumer privacy violation experience (Z). In this study used data types grouped according to their nature, namely qualitative data and quantitative data. The data sources used in this study are primary and secondary, so the data are in the form of primary data and secondary data.

The population in this study is a group of millennial consumers in the city of Denpasar and Badung regency, Bali, who have shopped on online sites such as Lazada and the like. This study used a survey method, namely using a sample to reflect the state of the population being observed. Based on certain considerations, in this study the number of samples used was 200 respondents by taking samples using the Non Probability Sampling technique with purposive sampling method.

The data collection method in this study was by distributing questionnaires online using the Google form. This study uses descriptive statistics and inferential statistics, namely: moderated regression analysis (MRA).

## **RESULTS AND DISCUSSION**

The results of the validity test of the research instruments presented in Table 4.2 show that all indicators have a Pearson Correlation greater than 0.30 so that all of these indicators



meet the data validity requirements. Testing the reliability of the instrument shows that the reliability value of each variable tested has a Cronbach's Alpha coefficient greater than 0.60 so that the statements in the questionnaire are reliable.

Table 1 – Validity and Reliability Test Results

No.	Variable	Item	Validity		Reliability	
			r Correlation	Information	Cronbach's Alpha	Information
1	Familiarity with technical aspects	X1.1	0.759	Valid	0.781	Reliable
		X1.2	0.641	Valid		
		X1.3	0.606	Valid		
		X1.4	0.851	Valid		
		X1.5	0.793	Valid		
2	Ecommerce Practice Awareness	X2.1	0.812	Valid	0.707	Reliable
		X2.2	0.849	Valid		
		X2.3	0.772	Valid		
3	Consumer Privacy	X3.1	0.829	Valid	0.646	Reliable
		X3.2	0.893	Valid		
4	Privacy violation experience	M1	0.615	Valid	0.761	Reliable
		M2	0.650	Valid		
		M3	0.811	Valid		
		M4	0.661	Valid		
		M5	0.821	Valid		
5	Online Repurchase Intention	Y1	0.800	Valid	0.780	Reliable
		Y.2	0.821	Valid		
		Y.3	0.881	Valid		

Source: Data processed, 2022.

Table 2 – Results of Moderating Regression Analysis

Model	Unstandardized Coefficients		Standardized Coefficients	T
	B	Std. Error	Beta	
1 (Constant)	4.647	.043		107.166
technical aspects	.108	.032	.221	3.391
Ecommerce Practice	.093	.030	.191	3.077
Consumer Privacy	.090	.028	.184	3.250
Privacy violation	-.068	.031	-.139	-2.204
technical*Privacy violation	-.070	.033	-.175	-2.108
E-com*Privacy violation	-.027	.038	-.061	-.728
Privacy*Privacy violation	-.048	.037	-.103	-1.313

Source: Data processed, 2022.

Based on the results of the MRA analysis as presented in Table 2, the following equation can be made:

$$Y = 4,647 + 0,108 X_1 + 0,093X_2 + 0,090X_3 - 0,068Z - 0,070X_1Z - 0,027 X_2Z - 0,048X_3Z$$

This shows that the variables of technical aspects, knowledge of e-commerce practices and understanding of Consumer Privacy have a positive and significant effect on Online Repurchase Intention, while the consumer's privacy violation experience has a negative and significant effect on Online Repurchase Intention. The interaction effect of technical aspect variables with privacy violation experience, the interaction of knowledge variables about e-commerce practices with privacy violation experience and the interaction between understanding privacy and privacy violation experience has a negative effect on online repurchase intention.

Based on the results of Table 3 it can be explained that the influence of technical aspect variables, knowledge of e-commerce practices, understanding of Consumer Privacy and privacy violation experience as well as the interaction of technical aspect variables with privacy violation experience has a significant effect on Online Repurchase Intention, while the interaction effect of knowledge about e-commerce practices with privacy violation



experience and the interaction effect of understanding privacy with privacy violation experience has no significant effect on Online Repurchase Intention.

Table 3 – Significance value of Moderating Regression Analysis results

Model	Sig.	Collinearity Statistics Tolerance	VIF
1 (Constant)	.000		
technical aspects	.001	.592	1.688
Ecommerce Practice	.002	.650	1.538
Consumer Privacy	.001	.787	1.270
Privacy violation	.029	.629	1.589
technical*Privacy violation	.036	.364	2.745
E-com*Privacy violation	.467	.361	2.774
Privacy*Privacy violation	.191	.406	2.460

Source: Data processed, 2022.

Based on Table 3 it is also found that the variable that most influences consumers' Online Repurchase Intention is Familiarity with technical aspects because it has a beta standardized coefficient value that is greater than the other variables, which is equal to 0.221.

Table 4 – Normality Test Results

		Unstandardized Residual
N		200
Normal Parameters <sup>a,b</sup>	Mean	.0000000
	Std. Deviation	.28459283
Most Extreme Differences	Absolute	.040
	Positive	.040
	Negative	-.036
Test Statistic		.040
Asymp. Sig. (2-tailed)		.200 <sup>c,d</sup>
Exact Sig. (2-tailed)		.901
Point Probability		.000

Source: Data processed, 2022.

Based on the analysis results in Table 4 significance value of 0.200 is obtained which is greater than 0.05.

Table 5 – Heteroscedasticity Test Results

Model	Unstandardized Coefficients		Standardized Coefficients		
	B	Std. Error	Beta	t	Sig.
1 (Constant)	.215	.021		10.254	.000
technical aspects	7.671E-5	.015	.000	.005	.996
Ecommerce Practice	.003	.015	.015	.171	.865
Consumer Privacy	.008	.013	.049	.620	.536
Privacy violation	.003	.015	.202	.200	.842
technical*Privacy violation	-.004	.016	-.026	-.226	.821
E-com*Privacy violation	.013	.018	.081	.690	.491
Privacy*Privacy violation	.002	.018	.015	.134	.893

Source: Data processed, 2022.

In Table 5 it can be seen that the significance value of the technical aspect variable is 0.996, the significance value of e-commerce practices is 0.865 and Understanding of Consumer Privacy is 0.536 so, there is no influence between the independent variables on the absolute residual. Thus, the model created does not contain symptoms of heteroscedasticity.

The test results in Table 6 give the result that the adjusted R<sup>2</sup> (adjusted coefficient of determination) is 0.517. This means that online repurchase intention is significantly



influenced by digital literacy variables consisting of technical aspects, e-commerce knowledge and understanding of consumer privacy by 51.7 percent, while the remaining 48.3 percent is explained by other factors not explained in the research model.

Table 6 – Test Results for the Coefficient of Determination (R<sup>2</sup>)

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.719 <sup>a</sup>	.517	.500	.34543

Source: Data processed, 2022.

Table 7 – F test result

Model	Sum of Squares	Df	Mean Square	F	Sig.
1 Regression	24.556	7	3.508	29.400	.000 <sup>b</sup>
Residual	22.910	192	.119		
Total	47.465	199			

Source: Data processed, 2022.

The F-test results show a significance value of less than  $\alpha = 0.05$  with a P-value of 0.000, indicating that the model used in this study is feasible. This result means that all independent variables can predict or explain the phenomenon of the dependent variable. In other words, digital literacy and consumer experience of privacy violation variables simultaneously influence online repurchase intentions. This means that the model can be used for further analysis. In other words, the fit is good with a significance value of 0.000, so the model can be used for extrapolation.

The effect of each digital literacy and privacy violation experience variable on online repurchase intention was tested using the t test. The test criteria to explain the interpretation of the influence between each variable is that if the significance value is  $<0.05$  then  $H_0$  is rejected and  $H_1$  is accepted. On the other hand, if the significance value is  $> 0.05$ , then  $H_0$  is accepted and  $H_1$  is rejected. Based on Table 4.9, it can be seen that the digital literacy and privacy violation experience variables have a significance value of  $<0.05$ , meaning that partially the digital literacy variable consists of Familiarity with technical aspects, knowledge of e-commerce practices and understanding of Consumer Privacy positively and significantly influences online repurchase intention. These results indicate that the higher the level of consumer literacy, the higher the online repurchase intention on online shopping sites. The results of the analysis also show that the moderating variable, in this case the privacy violation experience, negatively and significantly influences online repurchase intention. These results indicate that the higher the level of consumer privacy violation experience on online shopping sites, the lower the online repurchase intention on these online shopping sites. From the results of the MRA analysis in Table 4.9 it can also be concluded that the variable privacy violation experience in this study is a pure moderator because of the influence of Z (privacy violation experience) on Y (online repurchase intention) in the first output and the interaction effect of  $Z \times X_1$  (interaction of digital literacy variables with privacy violation experience) on the second output, one of which is significant. Thus it can be said that the privacy violation experience has proven to weaken or reduce online repurchase intention among millennial consumer groups even though they realize that online repurchase intention provides a lot of practicality considering that this consumer group has a good understanding of digital literacy, especially in terms of familiarity with technical aspects. The results of this analysis also support all the hypotheses formulated previously.

## CONCLUSION

Digital literacy which consists of the dimensions of Familiarity with technical aspects, knowledge of e-commerce practices and understanding of Consumer Privacy has a positive and significant effect on online repurchase intention on online shopping sites. This indicates



that the higher the digital literacy of the people in Denpasar City and Regency, the higher the community's intention to carry out online repurchase intentions on online sites. Privacy violation experience has a negative and significant effect on online repurchase intention on online shopping sites. This indicates that the more often the people of Denpasar City and Badung Regency experience privacy violations, it will reduce people's intention to carry out online repurchase intentions on online shopping sites. The interaction effect of technical aspect variables with privacy violation experience, the interaction of knowledge variables about e-commerce practices with privacy violation experience and the interaction between understanding privacy and privacy violation experience has a negative effect on online repurchase intention. This means that the consumer's privacy violation experience will reduce consumers' online repurchase intention even if they have good digital literacy. Privacy violation experience is a pure moderator, namely moderating the influence of digital literacy on online repurchase intention.

Based on the results of the analysis and conclusions, the suggestions that can be given to those in need are as follows: Online shopping sites are also expected to carry out intense socialization related to e-commerce practices and understanding privacy so that it will strengthen people's desire to carry out online repurchase intentions. Online shopping sites protect consumer data security. It is hoped that the government will be more intense and aggressive in working to protect consumer data, especially the millennial group, considering that this group will determine the country's future capabilities.

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