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# THE INFLUENCE OF PERSONALIZED ADS IN E-COMMERCE APPLICATIONS IN INDONESIA ON USER SATISFACTION LEVELS

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**Abstract:** The rapid growth of technology and the internet has propelled the development of the e-commerce industry in Indonesia. In efforts to enhance sales and customer interactions, e-commerce companies are increasingly adopting the use of advertisements tailored to individual preferences, known as personalized ads. This study aims to investigate the influence of personalized ads in e-commerce applications in Indonesia on user satisfaction levels. The study employs a quantitative research method, and data collection is conducted through the distribution of questionnaires. The collected data is then statistically analyzed using SPSS. The research findings indicate that personalized ads have a positive influence on user satisfaction levels in e-commerce applications in Indonesia. Users who receive personalized ads are more satisfied with the e-commerce application compared to users who do not receive personalized ads.

**Keywords:** Personalized Adsense, E-Commerce, User Satisfaction

### INTRODUCTION

Currently, the internet has become an essential component of people's lives worldwide, and over time, the internet as a whole continues to undergo significant changes. These changes have formed close relationship between individuals and the internet. In 2017, the number of internet users in Indonesia reached 143.26 million users, or 54.68% of the population, an increase compared to 2016's figure of 132.7 million users (APJII, 2017). This number further surged during the COVID-19 pandemic in Indonesia, with an increase of up to

73.7% or 196.7 million users in the second quarter of 2020 (APJII, 2020).

The increase in internet users COVID-19 durina the pandemic provides a glimpse of the emerging digital transformation within Indonesian society. One major factor accelerating changes in widespread behaviors was the pandemic's imposition of lockdowns and restrictions, compelling people to work from home and reduce face-toface interactions for extended periods. This situation forced Indonesians to adapt to new habits where daily activities became heavily reliant on information technology (Arianto, 2021). Gevyo Irene [80

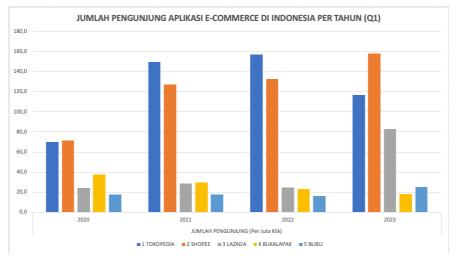
This illustrates the crucial role of information technology today in shaping new habits and behaviors within society.

The COVID-19 pandemic indirectly influenced economic disruptions in Indonesia, prompting businesses to shift towards digital platforms as a response to the economic crisis. Government policies enforcing social restrictions opened opportunities for creative economy companies, such as over-the-top (OTT) platforms and online shopping applications, to attract new customers (Muhyiddin, Hanan Nugroho, 2021).

One such example is Electronic Commerce, commonly known as e-commerce, which encompasses the sale, distribution, purchase, and marketing of goods or services through the internet (Setyoparwati, 2019). With the impact of the pandemic in Indonesia, the e-commerce sector has seen significant growth. Around 21 million e-commerce consumers emerged, with 72% of them

originating from non-metropolitan areas. Since the pandemic, the usage of e-commerce applications in Indonesia has increased by 3.6 times compared to pre-pandemic times, highlighting the substantial role of the e-commerce sector in driving digital economic growth in the country (Ridhwan et al., 2021).

As of 2023, Indonesia ranks among the top 10 countries with the largest e-commerce markets, securing the 9th position with a market value of \$43 billion US Dollars. This value is six times greater than Indonesia's ecommerce market value in 2018, which stood at \$8 billion US Dollars (McKinsey & Company Reselles, 2023). Visitor numbers to e-commerce applications in Indonesia have also grown annually, with Shopee and Tokopedia leading the pack, each having 158 million and 117 million visits in 2023, respectively, with visitors typically aged between 18 to 45 years old.



Graph 1. Number of E-commerce Visitors in Indonesia (Quarter 1)

Source: databox (processed data)

With the emerging competition e-commerce applications, among various strategies are being implemented by each application to maintain customer loyalty and retention. Loyalty is a state in which customers repeatedly make purchases from the same brand or place (Richard L Oliver, 1999). In order for a business or product to generate substantial profits, the loyalty of buyers, or in this context, visitors to e-commerce applications, becomes fundamental to stand out among other e-commerce platforms. However, it is essential to understand that user or buyer loyalty arises only when individuals experience satisfaction after engaging in repeated activities. Therefore, it's crucial for e-commerce applications to ensure buyer satisfaction, and one of the methods currently adopted by many Indonesian ecommerce platforms to encourage users to transact on their app is the strategy of personalized advertising.

According to the American Marketing Association, advertising is a business practice in which companies pay to place their messages or brands in specific locations. Advertising serves as a tool for businesses to exchange information with their existing customers and potential customers (Mumbai University). The presence of advertising in a company's marketing activities can help drive product sales, making advertising a vital marketing strategy, particularly in the modern world where companies compete to sell their products as attractively as possible, utilizing the advantages of the rapidly changing internet and technology.

The "personalized term advertising" or "personalized ads" has existed for a long time and traditionally referred to personalized promotional or marketing activities directed individual people. This concept evolved into personalized advertising based on individual preferences with the goal of enhancing marketing efficiency (Pavlou & Stweart, 2000). Through research conducted by McKinsey & Company on respondent expectations regarding personalization, the results indicated 71% of respondents expect personalization systems to be a standard service offered by companies to their customers (McKinsey & Company, 2021). This demonstrates that with technological advancements increased public awareness of service offerings, the presence of personalization systems can significantly influence customer satisfaction.

Indonesian e-commerce applications, the strategy personalized ads is formed based on data collected by the system from users, including transaction histories, frequently searched product types, and personal user data. With this data, the application can deliver different types of ads to each individual, tailored to their level of relevance or personal relevance. These personalized ads can include the latest products relevant to the user's previous searches or discounts on Gevyo Irene [82]

similar products (Boerman et al., 2021). Personalized advertising can also serve as a benchmark for users to assess how well the system adapts the information displayed in ads to individual ecommerce app users (Yu & Jung, 2016). Additionally, it can help reduce irrelevant ads for each user, filtering out unsuitable information and thereby minimizing ad irritation caused by irrelevant ads (Baek & Mamoto, 2012).

However, concerns have emerged about the personalization content which has become a primary strategy for many e-commerce applications. While personalized ads can enhance the relevance of displayed ads products, the presence personalization systems that utilize user data and monitor user behavior may also create vulnerabilities (Aguirre et al., 2015). There are instances where personalized ads make customers feel that the messages or ads offered are too personal, causing discomfort while using the system (White et al., 2007). Therefore, in its application, there is a possibility for users to stop or reduce their use of the system or, in this context, the e-commerce application.

### **Previous Research**

**Table 1. Previous Research** 

		Table 1. Prev	ious Research	
No	Researcher	Title	Result	Variable
	Name			
1	Dini Agustina,	"Pengaruh	Consumer	Variabel X2: Perceived
	Mukhamad	Personalisasi Iklan	attitudes towards	Personalization
	Najib, Budi	Online Terhadap	advertising have a	Variabel Y: Customer
	Suharjo (2016)	Sikap dan Minat Beli	role in influencing	Satisfaction
		Konsumen"	consumer buying	
			interest.	
2	Erlangga	"Analisa Faktor-	Consumer	Variabel X3: Ad
	Dewanto	Faktor Penentu	attitudes towards	Irritation
	(2017)	Penghindar	advertising have a	Variabel Y : Customer
		Konsumen	role in influencing	Satisfaction
		Terhadap	consumer buying	
		Personalized	interest	
		Advertising"		
3	Okky Chandra	"Personalized	Content	Variabel X1: Personal
	Santoso (2013)	Marketing Sebagai	personalization	Relevance Variabel X2
		Upaya Menciptakan	and customization	Perceived
		Keunggulan	can be a source of	Personalization
		Bersaing	a company's	
		Perusahaan"	competitive	
			advantage,	
			especially in	
			increasing	
			customer loyalty	

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4	Aminatu Juhria, Nurtika	"Pengaruh e-service quality terhadap	There is a positive influence between	Variabel X1: Personal Relevance
	Meinitasari,			Variabel Y : Customer
		kepuasan	e-service quality on customer	
	Fadel Iqbal Fauzi, Abdul	pelanggan di	satisfaction levels	Satisfaction
		aplikasi e-commerce		
	Yusuf (2021)	Shopee"	in <i>Shopee</i> e-	
_	Kaba Khadha	"Customan	commerce	Variabal V2. Darrasius
5	Kabu Khadka,	"Customer	There is a	Variabel X2: Perceived
	Soniya	Satisfaction and	relationship	Personalization
	Maharjan	Customer Loyalty"	between customer	Variabel Y : Customer
	(2017)		satisfaction and	Satisfaction
			loyalty that	
			customers will	
			show to a	
			company	
6	Sanne	"Personalized	In order for	Variabel X3: Ad
	Dahlgren,	Advertising and its	customer	Irritation
	Beatrice Tabell	Difficulties with	satisfaction to be	Variabel X2 : Perceived
	(2017)	Customer Privacy"	achieved,	Personalization
			transparency of	Variabel Y: Customer
			how data is used	Satisfaction
			is one of the	
			things that	
			customers want	
7	Hilton,	"The Influence of	Customer	Variabel X2: Perceived
	Marudut	Digital Marketing	satisfaction relates	Personalization
	Sianturi,	and Advertising on	to how <i>digital</i>	Variabel Y : Customer
		Customer	marketing plays a	Satisfaction
	Salman Faris,			
	Salman Faris, Rosita (2022)	Satisfaction with	role in delivering	
	•	Satisfaction with Price as Moderating	= : :	
	•	•	role in delivering	
	•	Price as Moderating	role in delivering appropriate	
	•	Price as Moderating Variable (Case Study	role in delivering appropriate	
8	•	Price as Moderating Variable (Case Study of Online Shopping	role in delivering appropriate	Variabel X2: Perceivec
8	Rosita (2022)	Price as Moderating Variable (Case Study of Online Shopping at Shopee)	role in delivering appropriate content	Variabel X2: Perceived Personalization
8	Rosita (2022)  Margaretha	Price as Moderating Variable (Case Study of Online Shopping at Shopee) "Text Message	role in delivering appropriate content  Ad Irritation,	
8	Rosita (2022)  Margaretha Habeahan	Price as Moderating Variable (Case Study of Online Shopping at Shopee)  "Text Message Advertising	role in delivering appropriate content  Ad Irritation, Perceived	Personalization
8	Rosita (2022)  Margaretha Habeahan	Price as Moderating Variable (Case Study of Online Shopping at Shopee) "Text Message Advertising Avoidance: A	role in delivering appropriate content  Ad Irritation, Perceived personalization	Personalization Variabel X3: Ad Irritation
8	Rosita (2022)  Margaretha Habeahan	Price as Moderating Variable (Case Study of Online Shopping at Shopee) "Text Message Advertising Avoidance: A Comparison	role in delivering appropriate content  Ad Irritation, Perceived personalization and Privacy	Personalization Variabel X3: Ad Irritation
8	Rosita (2022)  Margaretha Habeahan	Price as Moderating Variable (Case Study of Online Shopping at Shopee) "Text Message Advertising Avoidance: A Comparison Between Location	role in delivering appropriate content  Ad Irritation, Perceived personalization and Privacy Concern are	Personalization Variabel X3: Ad Irritation Variabel Y: Customer
8	Rosita (2022)  Margaretha Habeahan	Price as Moderating Variable (Case Study of Online Shopping at Shopee)  "Text Message Advertising Avoidance: A Comparison Between Location Based Text Message	role in delivering appropriate content  Ad Irritation, Perceived personalization and Privacy Concern are factors that	Variabel X3: Ad Irritation Variabel Y : <i>Customer</i>
8	Rosita (2022)  Margaretha Habeahan	Price as Moderating Variable (Case Study of Online Shopping at Shopee)  "Text Message Advertising Avoidance: A Comparison Between Location Based Text Message Advertising And	role in delivering appropriate content  Ad Irritation, Perceived personalization and Privacy Concern are factors that influence	Personalization Variabel X3: Ad Irritation Variabel Y: Customer
8	Rosita (2022)  Margaretha Habeahan	Price as Moderating Variable (Case Study of Online Shopping at Shopee)  "Text Message Advertising Avoidance: A Comparison Between Location Based Text Message Advertising And Unsolicited Text Message	role in delivering appropriate content  Ad Irritation, Perceived personalization and Privacy Concern are factors that influence customers not to use ad	Personalization Variabel X3: Ad Irritation Variabel Y: Customer
8	Margaretha Habeahan (2016)	Price as Moderating Variable (Case Study of Online Shopping at Shopee)  "Text Message Advertising Avoidance: A Comparison Between Location Based Text Message Advertising And Unsolicited Text Message Advertising"	role in delivering appropriate content  Ad Irritation, Perceived personalization and Privacy Concern are factors that influence customers not to	Personalization Variabel X3: Ad Irritation Variabel Y : Customer Satisfaction
	Margaretha Habeahan (2016)	Price as Moderating Variable (Case Study of Online Shopping at Shopee)  "Text Message Advertising Avoidance: A Comparison Between Location Based Text Message Advertising And Unsolicited Text Message Advertising"  "Avoiding	role in delivering appropriate content  Ad Irritation, Perceived personalization and Privacy Concern are factors that influence customers not to use ad personalization	Personalization Variabel X3: Ad Irritation Variabel Y : Customer Satisfaction
	Margaretha Habeahan (2016)	Price as Moderating Variable (Case Study of Online Shopping at Shopee)  "Text Message Advertising Avoidance: A Comparison Between Location Based Text Message Advertising And Unsolicited Text Message Advertising"	role in delivering appropriate content  Ad Irritation, Perceived personalization and Privacy Concern are factors that influence customers not to use ad personalization There is a desire not to have ad	Personalization Variabel X3: Ad Irritation Variabel Y : Customer Satisfaction  Variabel X2: Perceived
	Margaretha Habeahan (2016)	Price as Moderating Variable (Case Study of Online Shopping at Shopee)  "Text Message Advertising Avoidance: A Comparison Between Location Based Text Message Advertising And Unsolicited Text Message Advertising"  "Avoiding Personalized Ads on	role in delivering appropriate content  Ad Irritation, Perceived personalization and Privacy Concern are factors that influence customers not to use ad personalization There is a desire	Personalization Variabel X3: Ad Irritation Variabel Y: Customer Satisfaction  Variabel X2: Perceived Personalization

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			.1			
			that arises			
			through the			
			experience of			
		using ad				
			personalization			
10	Paul A. Pavlou,	"Measuring The	Direct advertising	Variabel Y : Customer		
	David W	Effects and	can be effective in	Satisfaction		
	Stewart	Effectiveness of	attracting			
		Interactive	customers to use			
		Advertising: A	the app			
		Research Agenda				

## RESEARCH METHODOLOGY Types and Designs of Research

This research is a type of research with a quantitative approach, by conducting a literature study of related research to study the relationship between existing variables, and collecting questionnaires to help see how customers see personalized *ads* in influencing customer satisfaction levels.

### **Population and Sample**

Population is an area or place of objects or subjects of research, both people, event goods have a quantity and quality and certain characteristics. While the sample is part of the population element that represents population characteristics (*Darwin et al., 2021*). Based on this understanding, the population for this study is:

Population: People from all walks of life, backgrounds, ages, religions and genders who live in Indonesia and use active *e-commerce* applications .

Sampling will be carried out by *purposive sampling* method or sampling carried out based on specific criteria applied by the researcher. So based on this study, the research samples are:

Sample : sampling is carried out by the method of distributing questionnaires to 150-200 people.

### **Variable Operational Definition**

Operational Data variables in this study are variable X and Variable Y. These variables will then be tested to determine their correctness (*Hikmawati, 2020*)

**Table 2. Operationalization of Research Variables** 

No	Variabel	Ukuran	Skala	Indikator
	Penelitian			
1	Personal	Persentase	Rasio	1. Products
	Relevance (X1)			relevant to past
				searches
				2. Assisting
				decision
				making

2	Perceived	Persentase	Rasio	1.	The ads
	Personalization				displayed give
	(X2)				a feeling of
					pleasure or
					satisfaction
				2.	The
					information
					used helps the
					ads that show
3	Ad Irritation	Persentase	Rasio	1.	Ad disruption
	(X3)			2.	Discomfort
					with
					advertising
4	Customer	Persentase	Rasio	1.	Customers
	Satisfaction (Y)				using the
					application
				2.	Love the
					presence of ads
					personalization.

Based on the variable operational table above, then:

- 1. Independent variable, is a variable that affects other variables (Sahir, 2021). In this study, the independent variables are three variables X, Personal Relevance (X1), Perceived Personalization (X2), and Ad Irritation (X3).
- 2. The dependent variable, or bound variable is a variable that is affected by the independent variable and is a result of the independent variable (Sahir, 2021). In this study the dependent variable is customer satisfaction, or Customer Satisfaction (Y).

### **Data Types and Sources Data Type**

The data used is ratio data, in order to display the absolute quantity of the calculation results in this research

analysis. Based on the time of data collection, this study uses quantitative data, or data presented in the form of numbers (*Priadana &; Sunarsi, 2021*)

### **Data Sources**

The data to be used in this study is primary data. The data used are taken directly for the object of research by the researcher. In this case, the data will results come from the of the questionnaire that the author disseminates against the desired sample (Darwin et al., 2021)

### **Data Collection Techniques**

The data collection technique carried out is to distribute questionnaires. This questionnaire will distributed to 150-200 correspondents with different backgrounds. Through the questionnaire distributed, there were 10 questions focusing on correspondents'

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experiences with the ad personalization system in *e-commerce applications*.

### **Data Analysis Methods**

The Data Analysis method aims to process the received data into information. In order to facilitate the process of forming data into information, statistical calculations are used to be the basis for making conclusions (*Priadana &; Sunarsi, 2021*).

### RESULT AND DISCUSSION RESULT

### **Validity Test**

The validity test carried out is by measuring variable data to be used in research. This validity test will show whether the variables to be used for research are valid. The validity testing step will be carried out using SPSS, on 15 correspondents who filled out the questionnaire.

Table 3. Validity Test

	Table	3. validity	lest	
Personal		Personaliz	User	Total
ized Ads		ed Ads	Satisfactio	
			n	
	Pearson	1	.576**	.873**
	Correlation			
	Sig. (2-		.002	.000
	Tailed)			
	N	15	15	15
User	Pearson	.576**	1	.880**
Satisfacti	Correlation			
on	Sig. (2-	.002		.000
	Tailed)			
	N	15	15	15
Total	Pearson	.873**	.880**	1
	Correlation			
	Sig. (2-	.000	.000	
	Tailed)			
	N	15	15	15

Based on the data in table 3 it can be seen that all instruments have pearson correlation values greater than r Table = 0.412 (N = 15) and Sig. (2-tailed) correlation values for all .000 items are smaller than 0.05 so that it can be concluded that all statement items are

declared valid, so the questionnaire is declared valid for use.

### **Reliability Test**

Reliability Test in this study, conducted to see the consistency of research instruments, this reliability test will be carried out on correspondents and processed using SPSS.

Table 4. Reliability Test

	1 4 5 1 5		
No.	Variabel	Cronbac	Information
		h Alpha	

1	Personalized		Reliabel
	Ads (X)	0.768	
2	User		Reliabel
	Satisfaction		
	(Y)		

Based on the reliability test in table 4, a Cronbach Alpha value of 0.768 was obtained which is greater than 0.600 so that the questionnaire was declared to have a good level of consistency and reliability for use in future research.

### **Multiple Linear Regression Test**

The Multiple Linear Regression Test aims to measure the influence of the three variables on the predetermined dependent variable. Through multiple linear regression tests, there will also be predictions of related variable values using independent variables.

Table 5. Regression Test

Model		Unstandardized B	Coefficients Std. Error	Satandardized Coefficient Beta	t	Sig.
1	(Constant)	2.884	4.578		.630	.534
	Personalized	.550	.164	.536	3.359	.000
	Ads					

Based on table 5 regression test results obtained a significance value of 0.000 < 0.05, which means that Personalized Ads have a positive and significant effect on the level of user satisfaction.

### F Statistical Test (Simultaneous)

Statistical Test F is performed to find out what independent variable has a simultaneous influence on the dependent variable. Statistical Test F will show the combined effect of all

independent variables on the dependent variable.

Test hypothesis:

H0: all independent variables simultaneously have no significant effect on the dependent variable

H1 : All independent variables have a significant influence on the dependent variable simultaneously

Significant Probability: 0.05

1. If F count < F table = H0

2. If F calculate > F table = H1

Table 6. Test F

				•		
Model		Sum of	df	Mean	F	Sig.
		Squares		Square		
1	Regression	.005	3	.002	4.732	.002 <sup>b</sup>
	Residual	.016	53	.000		
	Total	.023	55			

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Based on table 6 it can be obtained that the decision that H0 is rejected and H1 is accepted. This can be seen from the calculated F value of 4.73. While the resulting significance value is 0.002 which is smaller than 0.05. Thus it can be concluded that this model is feasible to use, and the independent variable personalized ads have a simultaneous influence on the dependent variable of tax aggressiveness.

#### Statistical Test T

Statistical test T is a type of test used to see the difference between the estimated value and the value of the

results of statistical calculations. This approximate value will be determined by the author, in order to test the correctness or falsity of the hypothesis.

Test hypothesis:

HO : all independent variables have no partial effect on the dependent variable

H1 : All independent variables have a significant influence on the dependent variable partially

Significant Probability: 0.05

- 1. If T count < T table = H0
- 2. If T count > T table = H1

Table 7. T Test

Model		Unstandardized B	Coefficients Std. Error	Satandardized Coefficient Beta	t	Sig.
1	(Constant)	2.884	4.578		.630	.534
	Personalized Ads	.550	.164	.536	3.359	.002

Based on table 7 regression test results obtained a calculated t value of 3.359 > t table 0.695, so it can be concluded that H01 is rejected and Ha1 is accepted.

### **Coefficient of Determination Test**

The Coefficient of Determination test is carried out to see the magnitude of the influence of the independent variable on the related variable. If the number of coefficients of determination of the regression model applied is 0 (zero), then the influence of the independent variable on the dependent variable is smaller. And vice versa, if the value is greater, then the regression results are better.

Table 8. Test coefficient of determination (R<sup>2</sup>)

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.536	2.87	.262	1.52507

Table 8 shows that the value of the coefficient of determination in R

Square is 0.287 or equivalent to 28.7%. This means that the effect of

personalized ads on increasing user satisfaction by 28.7%, while the remaining 71.3% is influenced by outside factors that are not discussed in this study.

### **DISCUSSION**

The research results indicate that personalized ads have a positive influence on the level of user satisfaction e-commerce applications Indonesia. This is in line with what was revealed by (Halimi et al., 2011) that personalization has an impact on customer satisfaction and lovalty. Currently, many companies attempting to enhance customer loyalty by building relationships with their customers. Personalization aims to make marketing efforts more effective, as companies can better understand specific consumer needs preferences, ultimately achieving competitive advantage and business development (Kurniawati & Suwarno, 2011).

Users who receive personalized ads are more satisfied with the ecommerce application compared to users who do not receive personalized ads. Personalized ads are tailored to users' preferences, shopping behavior, and search history. By displaying ads that are relevant to their interests and needs, users feel acknowledged and valued. These fitting ads make users perceive that the e-commerce platform understands and accommodates their preferences, thereby enhancing satisfaction.

Personalized ads also assist users in discovering products or services that best suit their needs. The information presented through ads helps users better comprehend the benefits of products, ultimately facilitating wiser purchasing decisions. Furthermore, with personalized ads, users experience a more personalized shopping journey. Ads adjusted to individual preferences create a more intimate and enjoyable interaction, enhancing user satisfaction in exploring the offered products and services.

Personalized ads present special offers, discounts, or promotions aligned with user interests. This adds value for users and motivates them to actively engage in shopping activities within the e-commerce application, leading to higher satisfaction levels. Users who feel acknowledged and serviced according to their preferences tend to exhibit higher loyalty towards the e-commerce platform. Personalized ads help establish long-term relationships with users, bringing positive impacts on overall satisfaction levels.

### **CONCLUSION**

The results indicate that the use of personalized ads has a positive impact on the level of user satisfaction of ecommerce applications in Indonesia. The findings show that users who receive personalized ads tend to be more satisfied with their experience using ecommerce apps compared to users who do not receive personalized ads. Personalized ads have the ability to serve

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ads that are more relevant and appropriate to individual preferences and needs, which in turn increases user satisfaction. This research supports the idea that ads personalization can play an important role in increasing positive interactions between users and ecommerce apps, by presenting ads that user better suit interests preferences, personalized ads can help reduce user discomfort with irrelevant ads, thereby improving the image of the app and increasing user trust in ecommerce platforms.

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