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A STUDY ON CONSUMER PREFERENCE FOR PAAS (PRODUCT-AS-A-SERVICE MODEL)

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ABSTRACT:

The Product-as-a-Service (PaaS) model is gaining traction as businesses shift from traditional ownership-based transactions to service-based consumption. This study explores consumer preferences for PaaS, analyzing factors influencing adoption, such as cost-effectiveness, convenience, sustainability, and perceived risks. The research aims to understand consumer motivations, barriers to acceptance, and how different demographics respond to this model. Through surveys and case studies, the study provides insights into the future of PaaS and its potential to reshape consumer behavior and business strategies. By analyzing consumer behavior, this research aims to understand the motivations and barriers influencing the adoption of PaaS models across various industries, such as electronics, automobiles, and home appliances.

Keywords: Product-as-a-Service (PaaS), consumer preference, subscription model, circular economy, sustainability, access-based consumption, business model innovation.

INTRODUCTION:

Product-as-a-Service refers to the concept of selling the services and outcomes that a product can provide, rather than selling the product itself. It is a business model where customers purchase the desired results or benefits offered by the product, instead of owning the physical product itself. This approach often involves a subscription-based model, where customers pay a recurring fee to access the product and the associated services. By shifting the focus from owning a product to accessing its benefits, Product-as-a-Service enables businesses to deliver value and outcomes more directly to their

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customers. This model creates opportunities for increased customer engagement, customization, and ongoing service and support. PaaS is also a concept in which products are thought to be much more than just physical items to be owed by the consumer. Instead, they are enables of value, experience and outcomes that customers seek. Instead of focusing on the product itself, PaaS shifts the perspective towards the benefits it delivers.

STATEMENTOFTHEPROBLEM:

The board aim of studying consumer perception of the Product-as-a-Service (PaaS) model revolves around understanding the factors influencing consumer acceptance and adoption of this emerging business approach. While PaaS offers benefits such as cost savings, convenience, and sustainability, many consumers remain hesitant due to concerns about ownership, long-term costs, and service reliability. There is a need to examine how consumer trust, awareness, and perceived value affect their willingness to embrace PaaS across different industries. Additionally, factors such as digital literacy, brand reputation, and economic conditions may play a crucial role in shaping consumer attitudes. This study seeks to identify the key barriers and motivators influencing consumer perception, providing insights that can help businesses design more effective PaaS strategies to enhance adoption and customer satisfaction.

OBJECTIVES OF THE STUDY:

- To examine consumer awareness and perception of the Product-as-a-Service (PaaS)model.
- To identify key factors influencing consumer adoption of Products subscriptions (e.g., cost, convenience, sustainability, and brand reputation).
- To assess consumer satisfaction and willingness to continue using Product-as-a-Service (PaaS) based Services.

RESEARCHMETHODOLOGY:

The research methodology used to study consumer preferences, perceptions, and adoption factors of the Product-as-a-Service (PaaS) model. The research employs a mixed-methods approach, combining quantitative surveys to ensure a comprehensive analysisThe following methods are used

- Simple Percentage
- Chi-Square Test
- ANOVO

RESULTS AND FINDINGS:



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TABLE 1 GENDER OF THE RESPONDENTS								
		Frequenc y	Percen t	Valid Percent	Cumulative Percent			
Vali d	Male	47	60.3	60.3	60.3			
	Female	31	39.7	39.7	100.0			
	Total	78	100.0	100.0				

	TABLE 2 AGE OF THE RESPONDENTS							
		Frequ	Perc	Valid	Cumulativ			
		ency	ent	Percent	e Percent			
Valid	18-25 Years	10	12.8	12.8	12.8			
	26-34 Years	41	52.6	52.6	65.4			
	35-42 Years	17	21.8	21.8	87.2			
	43-50 years	9	11.5	11.5	98.7			
	Above 50	1	1.3	1.3	100.0			
	Years							
	Total	78	100.	100.0				
			0					

	TABLE 3FAMILY TYPE OF THE RESPONDENT						
		Frequency	Percent	Valid Percent	Cumulativ e Percent		
Valid	Nuclear Family	59	75.6	75.6	75.6		
	Joint Family	19	24.4	24.4	100.0		
	Total	78	100. 0	100.0			

TABLE 4 NO OF MEMBER IN THE FAMILY OF THE RESPONDENT						
	Frequency	Perce	Valid	Cumulative		
		nt	Percent	Percent		



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Valid	2	1	1.3	1.3	1.3
	3	9	11.5	11.5	12.8
	4	47	60.3	60.3	73.1
	5	21	26.9	26.9	100.0
	Total	78	100.0	100.0	

	TABLE 5 FAMILY MONTHLY INCOME OF THE RESPONDENT							
		Frequency	Percent	Valid	Cumulative			
				Percent	Percent			
Valid	Below Rs.25,000	4	5.1	5.1	5.1			
	Rs.25001 to	10	12.	12.8	17.9			
	Rs.45,000		8					
	Rs.45,001 to	24	30.	30.8	48.7			
	Rs.65,000		8					
	Rs.65,001 to	25	32.	32.1	80.8			
	Rs.80,000		1					
	Above 80,000	15	19.	19.2	100.0			
			2					
	Total	78	10	100.0				
			0.0					

	TABLE 6 DESIGNATION OF THE RESPONDENTS								
		Frequency	Percent	Valid Percent	Cumulative Percent				
Valid	Student	23	29.5	29.5	29.5				
	Employed	25	32.1	32.1	61.5				
	Unemployed	15	19.2	19.2	80.8				
	Professionals	9	11.5	11.5	92.3				
	Business	6	7.7	7.7	100.0				
	Total	78	100.0	100.0					

TABLE 7 EDUCATIONAL QUALIFICATION OF THE RESPONDENT								
		Frequency Percent		Valid	Cumulative			
				Percent	Percent			
Valid	Under Graduate	37	47. 4	47.4	47.4			
	Post Graduate	23	29.	29.5	76.9			



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		5		
Doctor of	11	14.	14.1	91.0
Philosophy		1		
Diploma	6	7.7	7.7	98.7
No Formal	1	1.3	1.3	100.0
Education				
Total	78	100.0	100.0	

TABLE 8 FAMILY TYPE VS HOW SATISFIED ARE YOU WITH THE QUALITY PERFORMANCE AND RELIABILITY OF THE PRODUCT?							
	Sum of Squares	df	Mean Square	F	Sig.		
Between Groups	.380	3	.127	.670	.573		
Within Groups	13.992	74	.189				
Total	14.372	77					

	Crosstabulation								
WHAT TYPE (HAVE YOU US	SED THIS PRO	DUCT-AS-	Total				
A-SERVICE M	A-SERVICE MODEL? Electronics Cars/Vehicle Home Software Appliances Cars/Vehicle Appliances Cars/Vehicle Appliances Cars/Vehicle Cars/								
15-20 Years	0	7	2	1	10				
21-29 Years	8	11	17	5	41				
30-39 Years	1	8	7	1	17				
40-49 years	2	0	3	4	9				
Above 50 Years	0	0	1	0	1				
Total	11	26	30	11	78				

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Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	21.602ª	12	.042
Likelihood Ratio	23.635	12	.023
Linear-by-Linear Association	2.071	1	.150
N of Valid Cases	78		

a. 14 cells (70.0%) have expected count less than 5. The minimum expected count is .14.

9. WHAT TYPE OF PRODUCT HAVE YOU USED THIS PRODUCT-AS-A-SERVICE MODEL?



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HOW	HOW	Mean	Std.	Sig.	95% Confider	nce Interval
SATISFIED	SATISFIED	Difference	Error		Lower	Upper Bound
ARE YOU	ARE YOU	(I-J)			Bound	
WITH THE	WITH THE					
QUALITY	QUALITY					
PERFORM	PERFORM					
ANCE AND	ANCE AND					
RELIABILI	RELIABILI					
TY OF THE	TY OF THE					
PRODUCT?	PRODUCT?					
Very	Satisfied	14747	.12289	.629	4705	.1755
Satisfied	Neutral	15714	.13586	.656	5142	.1999
	Dissatisfied	02381	.20129	.999	5529	.5053
Satisfied	Very	.14747	.12289	.629	1755	.4705
	Satisfied					
	Neutral	00968	.12471	1.000	3375	.3181
	Dissatisfied	.12366	.19394	.920	3861	.6334
Neutral	Very	.15714	.13586	.656	1999	.5142
	Satisfied					
	Satisfied	.00968	.12471	1.000	3181	.3375
	Dissatisfied	.13333	.20240	.912	3987	.6653
Dissatisfied	Very	.02381	.20129	.999	5053	.5529
	Satisfied					
	Satisfied	12366	.19394	.920	6334	.3861
	Neutral	13333	.20240	.912	6653	.3987

FAMILY TYPE TUKEY HSD

HOW SATISFIED ARE YOU	N	Subset for alpha = 0.05			
WITH THE QUALITY		1			
PERFORMANCE AND					
RELIABILITY OF THE					
PRODUCT?					
Very Satisfied	21	1.1429			
Dissatisfied	6	1.1667			
Satisfied	31	1.2903			
Neutral	20	1.3000			
Sig.		.784			
Means for groups in homogeneous subsets are displayed.					

FINDINGS:

1.AGE. The majority of respondents (52.6%) fall within the **26-34 years** category, suggesting that younger adults are more engaged with the Product-as-a-Service (PaaS) model.

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2.NO OF MEMBER IN THE FAMILY: The majority respondents (60.3%) belong to families with 4 members, suggesting a predominant household structure.

3.FAMILY TYPE. The majority (75.6%) of the respondents belong to nuclear families, indicating a modern family structure trend

4.MONTHLY INCOME. The majority respondent (32.1%) falls in the mid to upper income brackets, indicating a high potential for PaaS adoption, especially for services offering flexibility, premium access, or cost-efficient upgrades.

5. EDUCATIONAL QUALIFICATION: The majority respondent (47.4%)of the respondents have at least an undergraduate degree, showing a strong educational background.

6. DESIGNATION: The majority of the respondent (32.1 %) suggesting strong representation from both income-earning and future consumer groups.

CHI SQUARE FINDINGS:

7.RELATION BETWEEN AGE AND WHAT TYPE OF PRODUCT HAVE YOU USED IN THIS PRODUCT AS A SERVICE MODEL?

H0: There is a significant relationship between age vs type of product used in this product-as-a-service model

H1: There is no significant relationship between age vs type of product used in this product-as-a-service model

INTERPRETATION:

As Chi- Square test was conducted to analyses the relationship between age vs type of product used in this product-as-a-service model. As per the table, the result of the Pearson Chi- Square test is .042 with significant value of 21.602 which is below the threshold of 0.05. As a result, it indicates there is significant relation between age vs type of product used in this product-as-a-service model. This suggests that Age significantly influences the type of product used in the PaaS model.

ANOVO FINDINGS:



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INTERPRETATION:

The result suggest that the Family type does not significantly influence consumer satisfaction with product quality, performance, and reliability in product-as-a-service Overall, customer satisfaction appears relatively homogeneous across groups, indicating a generally consistent perception of the service. This means that individuals from different family type not satisfied with the Quality, Performance, and Reliability of the product-as-a-service. The Sig. value (0.784) in Tukey's HSD test is much higher than 0.05, confirming that there are no meaningful differences in satisfaction levels across family types.

HYPOTHESIS TESTING:

Based on results, we fail to reject the null hypothesis (HO), means that family type does not significantly impact satisfaction with the product's quality, performance, and reliability.

CONCLUSION:

The study on consumer preference toward the Product-as-a-Service (PaaS) model reveals a growing acceptance and interest, particularly among younger, educated, and employed individuals. The findings suggest that consumers in the 26–34 age group, primarily from nuclear families with moderate to high income levels, are more inclined toward the PaaS model due to its convenience, flexibility, and cost-effectiveness. A majority of respondents possess at least an undergraduate degree, indicating that awareness and understanding of the PaaS model play a significant role in its adoption. Additionally, employed individuals and professionals show a higher tendency to prefer service-based models, likely due to their exposure to technology and modern consumption trends. While the overall response is positive, the study also highlights certain barriers, such as limited awareness and a traditional preference for ownership among older or less-educated consumers. In conclusion, the PaaS model has significant growth potential in India, especially if businesses focus on targeted marketing, customization, and building trust among consumers across various demographics.

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