The Privacy Paradox: Privacy vs Personalization w.r.t. the Indian Population

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ABSTRACT: The Privacy Paradox is a phenomenon in which users claim to be concerned about their privacy but their concern doesn't translate into privacy-protective behaviour. With sophisticated technologies being developed and accessible to businesses and governments, it is easy to collect a huge amount of consumer data. The ethics surrounding the use of this data are debatable. Consumers demand for personalized content but freak out when companies obtain an obtrusive amount of consumer data. Does this paradox exist in the Indian population? What factors influence this paradox? Is there an ethical way to offer personalized services and retain customers? This paper seeks to answer all these questions with respect to the Indian population. It explains the paradox and checks for its existence and other meaningful relationships.

Keywords: Privacy Paradox, Personalization, Privacy, Consumer Behaviour, Technology, Cyber Literacy

I. INTRODUCTION

The Privacy Paradox is a phenomenon in which internet users claim to be concerned about their privacy but their actions suggest the opposite. Consumers today are torn between their insatiable hunger for personalized content and their need to protect their identity online.

Consumers criticize companies like Facebook for loss of privacy, while they continue to tick boxes agreeing with terms and conditions which they haven't even read. Customers want to receive advertising or content that is personal and relevant, however when they freak out when a business knows too much about them.

Businesses, on the other hand, strive to acquire as much information as possible to personalize their offerings to the user. As the time consumers spend in cyberspace increases, businesses

exploit a variety of tools and techniques to maximize their marketing capability. This helps them in increasing theirrevenues. However, this may make the consumer feel unsafe and business might lose out on customer loyalty.

Sophisticated personalization technologies enable businesses to monitor systems, mine databases, and build a distinct profile of each individual, thereby helping them to customize their offerings according to the customer's interests and preferences. To enhance user experience firms, collect a wealth of rich consumer data profiles, information for which is often sacrificed by consumers unknowingly.

If one were to Google the word "candies", the search results would probably differ for them and their neighbor. This kind of personalization is often demanded and hated by customers. Consumers are quick to criticize firms for this. However, they don't realize that the data for this was acquired by companies when they liberally checked the "I agree to the T&C" box. However, by tracking the movements of a user at various online avenues governments and corporates may gather an obtrusive amount of data, which might amount to surveillance.

The fine line between personalization and privacy often tends to be blurred by the ever-growing competition and the overabundance of information. We often find that consumers consume personalized information at the cost of their privacy. This has produced a trade-off between privacy and personalization.

In light of recent events like Cambridge Analytica, Edward Snowden's disclosure about the PRISM program, Facebook Beacon controversy, Smart Speakers listening to user's conversations etc. consumers are concerned with corporates and governments infringing upon their privacy and are reluctant to give up personal credentials. This shakes



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the foundation upon which the present and future predictive personalization technologies are built. If consumers don't disclose their information, then brands won't be able to offer them beneficial services and possibly go bankrupt. An unprecedented cultural shift where consumers allow brands to leverage rich contextual information about them while being transparent in the usage of the information is in the works. However, is it argued that this is only possible if companies stick to certain ethics and consumers take some responsibility of their privacy and actions. The dichotomy of this paradoxical behaviour makes it an intriguing topic to study. The motivation of this paper comes from the effort to understand the nuances of the paradox, the factors which influence it, and the reasons why people sacrifice their intimate data.

II. REVIEW OF LITERATURE

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S. No	Title of the Paper	Names of Author s	Name & Indexing of the Journal/B ook/Book Chapter	Method or Framework Adopted	Region of Study	Major Findings or Conclusions	Research Gap	No. of Cit atio ns rec eiv ed as of Jul y'2 0
1	Willing to pay for quality personaliza tion? Trade-off between quality and privacy	(Li & Unger, 2017)	European Journal of Informati on Systems Vol. 21 Issue 6, Pages 621-642,	An experiment al approach was used to test—the hypothesis. Participants were randomly scenarios and their responses were recorded for further analysis.	USA	In few situations perceived personalisation quality outweighs the impact of privacy concerns.	Focuses only on information quality, presentation and the usefulness of the personalizati on quality dimension.	101
2	Personaliz ation and privacy: a survey of privacy risks and remedies in personaliza tion -	(Toch, Wang, & Faith, 2012)	Springer Science+ Business Media B.V.	Existing literature and data about various technologie s and architecture s has been analysed and	USA	New personalization technologies demand new frameworks to understand privacy risks and to provide solutions for the same.	How much personal information are consumers willing to give up for personalized services isn't addressed.	215



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3	Users' Privacy Concerns Have Evolved Since 2002	, Earp, & Young , 2009)	State Universit y Computer Science Technical Report # TR-2009- 16 Submitted to IEEE Security & Privacy	on the data collected via survey in 2008.		primarily concerned about information transfer, notice/awarene ss, and information storage back in 2002. These in 2008, still remain the top three privacy concerns, however many other concerns have been influenced by various policies and events.	a decade old and with the introduction of new technologies the concerns might have changed.	157
4	Privacy for Personaliz ation: Is It a Fair Trade-Off?	(Brow n C., 2015)	SAP BrandVoi ce, Forbes	Exploration of existing literature.	Multip le region s across USA	Contextual marketing and predictive personalization are incredible technologies for brands to exploit, which is possible only is people share their data.	Doesn't provide the consumer's perspective.	-
5	Why Personaliz ation Matters for Consumer Privacy	(Roths child, Boudet, & Gadi, 2019)	MIT Sloan Managem ent Review – Frontiers	Exploration of existing literature and secondary data.	Multip le region s across USA	The perceived benefits and privacy concerns vary according to population demographics.	A feasible solution has not been provided.	-
6	Human Aspects and Perception of Privacy in Relation to Personaliz ation	(Alekh , 2018)	Informati k , Databases and Informati on Systems, Chair Prof. Dr.	Exploration of existing literature and secondary data.	Germa ny	Argues that technical solutions aren't enough to tackle user privacy concerns. Further introduces the	Doesn't explain how different population demographic s respond to the presented issue and	-



			Stefan Decker, RWTH Aachen Universit y, Aachen, Germany			concept of Privacy Nudges to help the user make their own privacy decisions.	solution.	
7	The Personaliz ation Privacy Paradox: An Empirical Evaluation of Informatio n Transparen cy and the Willingnes s to Be Profiled Online for Personaliz ation	(Awad & Krishn an, 2006)	MIS Quarterly Vol. 30, No. 1, pp. 13-28 (16 pages)	Analysis of data collected from a survey conducted at large internet service provider.	Multip le region s.	People who desire greater information transparency are less willing to be profiled.	Many new methods of customer profiling and communicati on have been introduced which is not mentioned in this.	104
8	Privacy concerns arising from internet service personaliza tion filters	(Koen e, et al., 2016)	Computer s and Society, 45 (3). pp. 167-171. ISSN 0095-2737	Exploration through study of existing literature.	Nottin gham, UK	Users aren't aware of the different types of personalization services employed by companies which makes the process opaque.	A solution to the problem hasn't been provided.	5
9	Personalisa tion - privacy paradox: The effects of personalisa tion and privacy assurance on customer	(Lee & Cranag e, 2011)	Tourism Managem ent Volume 32, Issue 5, October 2011, Pages 987-994	undergradu ate students were used as the sample for the study. They were randomly assigned to four groups of thirty	Pennsy Ivania, USA	Personalised services may not always trigger a negative association. Consumers indicate high intentions to use personalized services and	The research was conducted on the responses of technology savvy undergraduat e students only.	141



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17	To Personaliz e or Not to Personaliz e Online Purchase Interaction s: Implicatio ns of Self- Selection by Retailers	(Thiru malai & Sinha, 2013)	Informati on Systems Research, Vol. 24, No. 3, pp. 683-708	The authors utilize an endogenous switching regression model to estimate the effect of online personalization strategies on the customer loyalty of retailers.	USA	When retailers make normatively incorrect choices with respect to online personalization , there is a significant negative impact on customer loyalty.	Doesn't talk about the role of customer trust while evaluating the effectiveness of various personalizati on strategies.	33
18	Personaliz ation versus Privacy: An Empirical Examinati on of the Online Consumer's Dilemma	(Chell appa &Sin, 2005)	Informati on Technolo gy and Managem ent, Vol. 6, pp 181 – 202	Ten popular online firms from five categories were identified. Responses of 243 consumers who were familiar with the services were recorded.	Multip le region s where the custom ers were based	Retailers can improve their abilities to acquire and use consumer data via activities that promote trust and that customers value various types of personalisation s differently.	Doesn't take into account the various demographic factors and individual specific attribute.	106 5
19	Privacy Concern and Online Personaliz ation: The Moderatin g Effects of Informatio n Control and Compensat ion	(Taylo r, Davis, & Jillapal li, 2019)	Electronic Commerc e Research, Vol. 9, No. 3, pp 203 – 223	Experiment with the help of an online website which was used by the sample.	South wester n part of USA	An increased perception of information control reduces the negative impact of privacy concern on behavioural intentions.	Sample of the study was restricted to college students and therefore can't be generalized.	149
20	Privacy and Personaliz ation: The Trade-off	(Wadl e, Martin , & Ziegler	Adjunct Publicatio n of the 27th Conferen	Online survey conducted in Germany on	Germa ny	Data which allows distinct identification of an individual is	The study is limited to Germany and privacy being culture	4



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	between Data Disclosure and Personaliz ation Benefit	, 2019) (Chell	ce on User Modeling, Adaptatio n and Personali zation	undergradu ate students.	USA	less likely to be disclosed. People are more likely to disclose data when the promised benefit fulfills needs like security and health. Vendors	dependent, it is difficult to replicate the results on a different sample.	
21	Economic Model of Privacy: A Property Rights Approach to Regulatory Choices for Online Personaliz ation	appa & Shiven du, 2007/2 008)	Managem ent Informati on Systems, Vol. 24, No. 3, pp. 193-225	under a monopoly is considered where an online vendor sells a product with personalisat ion services.		should find innovative ways through which they can deliver incentives to the customer which are related to their use of personalization services.	explore vendor strategies for a distributed consumer type.	79
22	Using Personaliz ation Technologi es for Political Purposes: Privacy Implicatio ns	(Mavri ki & Karyd a, 2017)	E- Democrac y - Privacy- Preservin g, Secure, Intelligent E- Governm ent Services. Communi cations in Computer and Informati on Science, vol 792. Springer, Cham	Exploration through existing literature.	Greece	Use of personalization tools in politics has direct implications on individuals and the society as a whole. They may be used to influence decisions and for mass surveillance.	Doesn't address the implications of using big data to address electoral outcomes.	7
23	Personaliz ation Versus Privacy: Making	(Powle s, 2018)	Personalis ation in Marketin g, Hubspot	Exploration through existing literature and	USA	Consumers and businesses alike need to take responsibility	Doesn't mention the data attributes that	-



	Sense of the Privacy Paradox		Blog https://blo g.hubspot .com/mar keting/per sonalizati on- versus- privacy	secondary data.		of actions. Consumers need to be aware of the terms they're agreeing to and businesses need to be more transparent with their usage of consumer data.	consumers aren't willing to disclose and what they disclose unknowingly	
24	Studying the Internet Experience	(Brow n B., 2001)	Publishin g Systems and Solutions Laborator y, HP Laborator ies, Bristol	A qualitative research methodolog y based around collection of rich data has been used for this study. Participants from outside Hewlett Packard were chosen for the study.	South west Englan d	The study uncovered a plethora of problems faced by internet users. Privacy being a major one. The user experience needs to be improved without adding unnecessary complications.	The study was conducted on a small sample where there is a huge possibility of a cultural bias.	-
25	The impact of disposition to privacy, website reputation and website familiarity on informatio n privacy concerns	(Li Y., 2014)	Decision Support Systems – Elsevier, pp. 343 - 354	A survey was used to assess the self-reported privacy perceptions and tasks performed.	USA	Confirms that disposition to privacy is an important predictor of a person's website-specific privacy concerns.	Only focuses on privacy- as-control perspective, even though the concept of privacy other perspectives provide insights into the same.	145

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III. RESEARCH GAP

This paper attempts to check whether the privacy paradox exists in the Indian population or not. It seeks to find whether a user's privacy concerns translate into active privacy-protective behaviour. Further, more research is required to determine the effect of demographic factors like cyber literacy, age, educational qualifications, etc. have on privacy concerns, and the privacyprotective behaviour they engage in. Following upon that the research aims to find why people who are concerned about their privacy easily sacrifice their credentials and whether they prefer buying from a company which takes measures to protect their privacy.

IV. SUMMARY OF LITERATURE

A bulk of existing literature focuses on the benefits and evolution of predictive personalization technologies. With predictive technology, brands can not only customize offerings as per a consumer's current needs but also predict what they'll require and suggest solutions for it even before they require it. This enables brands to influence consumer purchase decisions, ultimately exploiting the consumers for profits. Businesses with superior and advanced data acquiring, personalization and predictive services dominate their competitors and possibly eliminate

With social networking sites thriving and content hungry consumers leaving traces all over the web, companies like Google and Facebook are having a gala time. However, this also makes them vulnerable to frauds and privacy breaches. Personal data can easily be abused. However, a lot of the personalization techniques used fall in a grey area. This leaves consumers confused and reluctant to give out personal credentials, fearing surveillance and privacy breaches.

These credentials lie at the heart of today's predictive personalization and contextual marketing. If brands don't have the right data, they wouldn't be able to acquire customers and generate revenue. Consumers are willing to disclose certain information like emails and date of birth, only if they know how it is going to be used and who can access it. It is documented that consumers indulge in privacy compromising behavior. Consumers tend to disclose information according to the perceived benefits they may gain from a brand's offering. Many do it for instant gratification while some do it because others around them do it. However, this varies as per demographics.

Companies and consumers have their own definitions of privacy which in some instances are

polar opposites. The meaning of privacy varies from individual to individual, making it very subjective. Some literature suggests that people tend to trust companies whorespect their privacy.

To conclude, personalization is possible due to personal data, however, uber-personalization might encroach a user's privacy and trigger a reluctance to share personal data. It is important to strike a balance between the two.

V. METHODOLOGY

For this study, first an electronic database literature search was conducted in Google Scholar, MIS Quarterly and Elsevier Science Direct. The primary keyword used was 'privacy paradox'. The studies or papers were selected based upon their relevance indicated from their abstract and title. A thorough examination and review of the complete paper or study was done post selection.

This study follows descriptive explanatory research approach and is quantitative in nature. It seeks to check whether the privacy paradox exists in the Indian population. This is done by comparing the means of the variables << How concerned are you regarding your privacy?>> and <<How active are you when it comes to taking measures to protect your privacy online?>>. Here <<How concerned are you regarding your privacy?>> is taken as the independent variable while << How active are you when it comes to taking measures to protect your privacy online?>> has been taken as the dependent variable. A stark difference in the means or the skewness will help in confirming the existence of the paradox.

Further, variables like <<Age>>, and <<Gender>> have been cross-tabulated with the variable << How active are you when it comes to taking measures to protect your privacy online?>> to check for a relation between them. The former ones being the independent variable and the latter being the dependent variable.

A primary data collection method was used. The sample of the study belonged to different urban geographic locations across India and to different age groups, genders, occupations, etc. A questionnaire made on Google Forms was circulated amongst the population. questionnaire was electronically circulated to 215 individuals (one individual equals a sampling unit). Simple random sampling (probability sampling) was used for the same. Considerable effort was put in to avoid any sampling errors. A second request or follow up was conducted to eliminate nonresponse errors, thus countering errors in variation in the representativeness of the sample that

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responded. In the end, 126 responses were gathered. This equaled to a 58.6% response rate, which is commendable given the survey was unsolicited.

The questionnaire was the sole instrument used and has been attached in the appendix. It consisted of a nominal, ordinal, interval, and semantic differential scales. Nominal scales were used to collect data on gender, educational qualifications etc. while interval scales were used to collect data for variables like age group. The semantic differential scale was used to know the respondents' approach or their attitude. This can be seen in the variable << how concerned are you regarding your privacy>> where polar opposites like 'not at all concerned' and 'extremely concerned' are used to help the respondents answer.

Further the data was downloaded into a Microsoft Excel spread sheet to remove redundancies or bad data and later imported into IBM SPSS Statistics Version 20 for analysis and to perform statistical operations.

Table 1. Respondent Demographics

Demographic Profile	of Respondents	Frequency	Percent
	Male	71	56.3
	Female	53	42.1
Gender	Prefer Not Say	1	0.8
	Non Binary	1	0.8
	Total	126	100
	18 - 24	49	38.9
	25 - 39	36	28.6
Age	40 - 55	39	31
	56 & above	2	1.6
	Total	126	100
	Up to High School	7	5.6
	Intermediate	22	17.5
Educational	Graduation	58	46
Qualification	Post-Graduation & above	39	31
	Total	126	100
	Salaried Professional	37	29.4
	Self Employed	38	30.2
Occupation	Retired	2	1.6
1	Student	44	34.9
	Others	5	4
	Total	126	100

The majority of the respondents were male (56.3%). A majority of them belonged to the age group of 18-24 years (38.9%). 46% of the respondents had completed their graduation. However, 34.9% of them were students followed by 30.2% of them being self-employed.

Due to the technical nature of the study, it was crucial for the respondents to possess

approximately the same amount of technical knowledge. This has been measured by the variable << How tech-savvy or cyber literate do you consider yourself?>>. The normality for the same has been checked by calculating the z-value and a histogram. Table 2 depicts the skewness and kurtosis. Figure 1 represents the histogram. z-value for skewness is -.486 (-.105/.216)

z-value for kurtosis is -.712 (-.305/.428)

As both z values fall within the range of -1.96 and + 1.96, the data is normal.

Table 2. Skewness and Kurtosis

How tech-sawy or cyber literate do you consider yourself?

N	Valid	126
	Missing	0
Mean		3.01
Median	i	3.00
Std. De	viation	1.031
Skewne	ss	105
Std. Err	or of Skewness	.216
Kurtosi	s	305
Std. Err	or of Kurtosis	.428

Further, the histogram depicts that the curve is not tilted towards any side and falls on the mean value. This means that the data is normal.

Histogram How tech-savvy or cyber literate do you consider yourself?

Figure 1. Histogram with Normality Curve

For simplicity in data analysis, the key variables used in the paper have been coded as shown in Table 3.

Table 3. Coded Variables and their Values

Variable Name	Variable Code	Values				
Age	varD1	1="18-24years" 2="25-39 years" 3="40-55years" 4="56 years & above"				
Educational Qualifications	varD2	1 = "Upto High School" 2 = "Intermediate" 3 = "Graduation" 4 = "Post Graduation"				
Gender	varD3	1 = "Male" 2 = "Female" 3 = "Prefer not say"				

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	ı	
		4 = "Non Binary"
How concerned are you regarding your privacy?	varM1	1 = "Not at all concerned" 2 = "Not much concerned" 3 = "Somewhat concerned" 4 = "Concerned" 5 = "Very concerned"
How tech savvy or cyber literate do you consider yourself?	varM2	1 = "Not at all tech-savvy" 2 = "Not very tech-savvy" 3 = "Somewhat tech-savvy" 4 = "Tech-savvy" 5 = "Very tech-savvy"
How active are you when it comes to taking measures to protect your privacy online?	varM3	1 = "Not at all active" 2 = "Not very active" 3 = "Moderately active" 4 = "Active" 5 = "Very active"

VI. DATA ANALYSIS AND INTERPRETATION **Table 4. Comparison of Means**

	N	Minimum	Maximum	Mean	Std. Deviation
How concerned are you regarding your online privacy?	126	2	5	4.24	.650
How active are you when it comes to taking measures to protect your privacy online? (Read Description)	126	1.	5	2.48	1.033
Valid N (listwise)	126				

Figure 2. Histogram for <<varM1>>

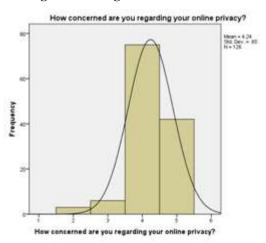
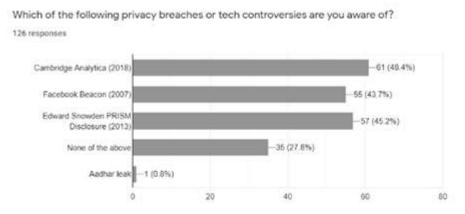


Figure 3. Histogram for <<varM3>>

Interpretation: The mean of responses for <<varM1>> as depicted in Table 4 is 4.24 which tells us that the respondents are concerned about their privacy online. However, the mean of responses for <<varM3>> as depicted in Table 4 is 2.48. This stark difference in the means of the respondent's concern and behaviour confirms the presence of the paradox. With the concern being higher than the actual behaviour, it can be concluded that the respondent's privacy concerns don't translate into privacy protective behaviour.

This can be further confirmed by analyzing the histograms in Figure 2 and Figure 3. Figure 2 shows that a majority of the respondents are concerned about their privacy and hence it is negatively skewed. However, Figure 3, which shows that majority of the respondents aren't very active and thus the normality curve is positively skewed. This again confirms that the privacy paradox exists in the sample population.

Figure 4. Bar Graph showing literacy level of respondents w.r.t a few privacy breaches



Interpretation: A majority of the respondents are well aware of a few of the famous privacy breaches or controversies that have happened in the past.

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Table 5. Correlation between <<varM1>>&<<varM3>>

			How tech- sawy or cyber literate do you consider yourself?	How concerned are you regarding your online privacy?
literate do yo	How tech-sawy or cyber	Correlation Coefficient	1.000	058
	literate do you consider yourself?	Sig. (2-tailed)		.516
	yoursell?	N	126	126
	How concerned are you	Correlation Coefficient	058	1,000
regarding your online		Sig. (2-tailed)	.516	
	privacy?	N	126	126

Interpretation: As the p-value denoted by Sig. (2-tailed) is greater than 0.05 (0.516>0.05) the correlation is not statistically significant. This means that an individual's 'tech savviness' doesn't influence his privacy concerns.

Table 6. Correlation between <<varM2>>&<<varM3>>

			How tech- sawy or cyber literate do you consider yourself?	How active are you when it comes to taking measures to protect your privacy online? (Read Description)
Spearman's rho	How tech-sawy or cyber	Correlation Coefficient	1,000	.497
	literate do you consider yourself?	Sig. (2-tailed)		.001
	yourself?	N	126	126
	How active are you when	Correlation Coefficient	.497	1.000
	it comes to taking measures to protect your	Sig. (2-tailed)	.001	
	privacy online? (Read Description)	N	126	126

^{**.} Correlation is significant at the 0.01 level (2-tailed).

Interpretation: As the p-value (.001)in Table 6 lies between 0.0010 and 0.05, the correlation is statistically significant and positive. This implies that with increasing level of 'tech-savviness' an individual becomes more active at taking privacy protective measures.

Table 7.1Crosstabulation between <<varM3>> and <<varD1>>

How active are you when it comes to taking measures to protect your privacy online? (Read Description) * Age Crosstabulation

			Ų.		ge		
			18 - 24 years	25 - 39 years	40 - 55 years	56 years & above	Total
How active are you when	Not at all active	Count	4	10	2	1	17
it comes to taking		% within Age	8.2%	27.8%	5.1%	50.0%	13.5%
measures to protect your privacy online? (Read	Not very active	Count	- 11	22	25	1	59
Description)		% within Age	22.4%	61.1%	64.1%	50.0%	46.8%
	Moderately active	Count	15	4	9	0	21
		% within Age	30.6%	11.1%	23.1%	0.0%	22.2%
	Active	Count	13	0		0	16
		% within Age	26.5%	0.0%	7.7%	0.0%	12.7%
	Very active	Count	6	0	0	0	
		% within Age	12.2%	0.0%	0.0%	0.0%	4.8%
Total		Count	49	36	39	2	120
		% within Age	100.0%	100.0%	100.0%	100.0%	100.0%

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Table 7.2 Crosstabulation between << varM2>> and << varD1>>

How tech-sawy or cyber literate do you consider yourself? ' Age Crosstabulation

			Age			
		18 - 24 years	25 - 39 years	40 - 55 years	56 years & above	Total
How tech-savvy or cyber literate do you consider	Not at all tech sawy	1.	7	2	1	11
	Not very tech savvy	1	2	20	1	24
yourself?	Somewhat tech sawy	27	14	12	0	53
	Tech sawy	16	8	5	0	29
	Very tech sawy	4	5	0	0	9
Total		49	36	39	2	126

Interpretation: From the crosstabulation in Table 7.1, it is clear that the age group of 18 - 24 years is more active than others in taking privacy protective measures. This can be attributed to the fact that they are relatively more tech savvy than the other age groups as depicted in Table 7.2.

Table 7.3 Crosstabulation between <<varM3>> and <<varD3>>

How active are you when it comes to taking measures to protect your privacy online? (Read Description) * Gender

Crosstabulation

					Gender		
		-	Male	Female	Prefer not say	Non Binary	Total
How active are you when.	Not at all active	Count	11	- 6	0	0	17
it comes to taking measures to protect your		% within Gender	15.5%	11.3%	0.0%	0.0%	13.5%
privacy online? (Read	Not very active	Count	33	25	-0	1	59
Description)		% within Gender	46.5%	47.2%	0.0%	100.0%	46.8%
	Moderately active	Count	15	13	0	0	28
		% within Gender	21.1%	24.5%	0.0%	0.0%	22.2%
	Active	Count		7	- 1	0	16
		% within Gender	11.3%	13.2%	100.0%	0.0%	12.7%
	Very active	Count	4	- 2	0	. 0	- 6
		% within Gender	5.6%	3.8%	0.0%	0.0%	4.8%
Total		Count	71	53	1	1	126
		% within Gender	100.0%	100.0%	100.0%	100.0%	100.0%

Interpretation: Majority of the males (46.5%) and females (47.2%) are not very active at taking privacy protective measures.

Table 8.Frequency Distribution of << Do you read the privacy policy and T&Cs thoroughly before agreeing to them while signing up for services or installing an app?>>

Do you read the privacy policy and T&Cs thoroughly before agreeing to them while signing up for services or installing an app?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No	76	60.3	60.3	60.3
	Sometimes	48	38.1	38.1	98.4
	Yes	2	1.6	1.6	100.0
	Total	126	100.0	100.0	

Interpretation: Majority of the respondents (60.3%) never read the privacy policy or terms and conditions before agreeing to them while subscribing to services.

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Table 9. Frequency Distribution of << What prompts you the most to NOT read the privacy policy or **T&Cs?>>**

What prompts you the most to NOT read the privacy policy or T&Cs?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Dont feel like reading	1	.8	.8	.8
	I ALWAYS read them	2	1.6	1.6	2.4
	They are difficult to find or access	11	8.7	8.7	11.1
	They are overloaded with technical jargon I don't understan	36	28.6	28.6	39.7
	They are too long, I don't have the time to read it	76	60.3	60.3	100.0
	Total	126	100.0	100.0	

Interpretation: Majority of the respondents (60.3%) don't always read the privacy policy or terms and conditions because they are too long and time consuming to read.

Table 10. Frequency Distribution of << What prompts you the most to submit your personal credentials to a company?>>

What prompts you the most to submit your personal credentials to a company?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid :	Everyone else does it	19	15.1	15.1	15.1
	I don't mind giving up my credentials	3	2.4	2.4	17.5
	I'll get personalized deals and services in return	14	11.1	11.1	28.6
	Instant Gratification eg. Downloading a freeble or getting a discount coupon	35	27.8	27.8	56.3
	Others	4	3.2	3.2	59.5
	Presence of a trusted logo eg, a lock icon which reassures me that my data is safe	51	40.5	40.5	100.0
	Total	126	100.0	100.0	

Interpretation: Majority of the respondents (40.5%) are willing to give their data if they see a trusted logo like a secure lock or a trusted brand's logo on a platform or website.

Table 11. Frequency Distribution of << Are you more likely to buy products or services from a company that takes measures to protect your privacy over one which doesn't?>>

Are you more likely to buy products or services from a company that takes measures to protect your privacy over one which doesn't?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	71	56.3	56.3	56.3
	No	34	27.0	27.0	83.3
	My decision is not affected by that	21	16.7	16.7	100.0
	Total	126	100.0	100.0	

Interpretation: Majority of the respondents (56.3%) are more likely to purchase products and services from a company that takes measures to protect their privacy over one which doesn't.

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VII. RESULTS

- The Privacy Paradox exists in the sample population as people's privacy concerns don't translate into privacy-protective behaviour. The respondents are also aware of the major privacy leaks and controversies that have happened in the past.
- There is no correlation between the level of tech-savviness and the privacy concerns of the respondents. However, there is a significant positive correlation between the level of techsavviness and privacy-protective measures taken. This implies that the level of tech savviness doesn't impact a person's privacy concerns but has a positive impact on their privacy-protective behaviour. This hints at the fact that these people might unknowingly perform actions that safeguard their privacy.
- The age group of 18 24 years or Gen Z (at the time of this study) is more active than their older counterparts at privacy protective measures.
- Further, the gender of the respondent doesn't have any effect on their privacy-protective behaviour.
- The respondents aren't cautious of a company's privacy policy and terms & conditions as they find them to be too elaborate which they don't have the time to
- The presence of a trusted logo makes the respondents more susceptible to giving out their personal credentials. Thus trust plays a role in the respondents' willingness to share their data.
- A firm that respects the consumers' privacy by taking appropriate measures is more likely to get business from customers who are aware of and value their privacy.

VIII. CONCLUSION

Over the past few decades, technology has grown exponentially and has been more intertwined with our lives than ever before. Corporates have left no stone unturned in benefitting from these developments. These developments have not only influenced privacy by changing the way information is accessed but have also fundamentally changed how privacy is defined. People are often lured into sharing more information than they otherwise might and end up oversharing personal data in the greed of minuscule rewards. This is a clear indicator of the fact that traditional concepts of privacy are no longer valid

and have been eroded with technological advancements.

Individuals are no longer in control of how their preferences and data is collected and controlled by third parties, who sometimes use it against the individual. Complex retargeting can severely influence a person's decision. Businesses often use sophisticated technologies to strategically show ads to a person to influence them to purchase it. The mining of huge databases containing consumer's preferences lies at the heart of this technology. However, recently a barrage of privacy laws and outrage by consumers has obstructed these operations. Gradually, some consumers have realized the blurring of boundaries between personalization and privacy intrusive practices.

This paper started with the same observation that our online privacy is increasingly being undermined with each advancement in technology. Businesses and governments alike use consumer data for commercial or surveillance purposes. Even though consumers express grave concern for the same their actions stand in stark contrast of their stance.

The presence of The Privacy Paradox could be confirmed from the survey data collected from India. Interestingly, the analysis of the data uncovers some startling facts. The analysis shows that the cyber literacy of an individual doesn't affect their privacy concerns, but has an impact on the privacy protective behaviour an individual engages in. This hints at the fact that a cyber literate person might not be very concerned about their online privacy but still takes measures to protect it knowlingly or unknowingly. The Gen Z or the younger generations are more aware and concerned about their privacy and are relatively more active at taking privacy protective measures. However, the gender of an individual doesn't play any significant role in the same.

There is no doubt that consumers are consicous of their privacy and some let it influence their purchase decisions. Consumers are more likely to do business with a company which respects their privacy and uses their data with prior consent.

The line between personalisation and privacy violation is a fine one which is blurring with each passing day. Privacy laws haven't advanced at the same pace as technology and have a lot of catching up to do. Consumer unwillingness to share data shakes the foundation on which today's personalization technologies are built and pose a serious threat to businesses. However, neither the consumer nor the businesses can be solely blamed for this. The former is to blame for

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not being aware or for not taking appropriate measures to safeguard themselves while the latter is to blame for disregarding ethics and being blinded by profits.

However, at the end of the day, one will always have to sacrifice something to gain something. The aim should be to make the exchange ethical and mutually benficial.

IX. MANAGERIAL IMPLICATIONS

Companies need to respect consumer's privacy and need to stand by ethics no matter what. They shouldn't use the existence of the paradox to exploit the consumers as it will be detrimental in the long run. Instead, they should undertake initiatives to educate the consumer. Consumers are more likely to do business with a company which respects their privacy and obtains their consent. Management should identify the various issues customers are facing with their privacy and attempt to solve them. For example, if customers aren't able to understand the privacy policy, the companies should simplify it and make it easily accessible to the consumer. A gist of the policy in bullet points can be made available to the consumer. This will help build trust and nuture a beneficial relationship. mutually Further, companies should follow latest security norms and provide assurances to the consumer by displaying appropriate icons and security certificates. Just in time alerts which notify the user before they share sensitive data can also be introduced at apt locations. To conclude, the companies should strive to serve and safeguard the customer's privacy, and profits will follow once a relationship based on trust is established. Long term sustainable relationships should be prioritised over short term profits.

X. FUTURE SCOPE AND LIMITATIONS

Further research could concentrate on a wider range of factors other than demographic ones which could possibly influence a person's privacy concerns and behaviour. Past experiences, devices or platforms used etc. may be explored for the same. One limitation lies in the way a respondent's cyber literacy has been guaged. A separated quiz of set of questions may be used in the future to provide a more standardized idea of the same. A bigger sample size may be used to establish a more detailed relation between the variables.

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Appendix – I - Ouestionnaire

Link:https://forms.gle/sJ41uy8VuxJ4E34f6

Age *

18 - 24

25 - 39 40 - 55

56 and above

Gender *

Female

Male

Non Binary

Prefer Not Say

Educational Qualification *

Up to High School

Intermediate

Graduation

Post Graduation& above

Occupation *

Salaried Professional

Self Employed

Retired

Student

Others

How concerned are you regarding your online privacy? *

Not at all concerned

2

3

4 5

Extremely concerned



How tech-savvy or cyber literate do you consider yourself? *	5 I actively take a number of measures
Not at all tech savvy	Do you read the privacy policy and T&Cs
1	thoroughly before agreeing to them while signing
2	up for services or installing an app? *
3	Yes
4	No
5	Sometimes
Very tech savvy	What prompts you the most to NOT read the
Do you like it when companies provide you	privacy policy or T&Cs? *
personalized services based on your likes and	If you ALWAYS read them check the 'I
dislikes? *	ALWAYS read them' option below. If you read
For example - Netflix/YouTube/Prime	them sometimes, check the reason why you
Video/Spotify/Amazon recommending you a	don't read them always.
movie/video/song/product based on your	I ALWAYS read them
watch/search/purchase history	They are too long, I don't have the time to read it
Yes	They are overloaded with technical jargon I don't
No	understand
Sometimes	They are difficult to find or access
Which of the following privacy breaches or tech	Other:
controversies are you aware of? *	
Cambridge Analytica (2018)	
Facebook Beacon (2007)	What prompts you the most to submit your
Edward Snowden PRISM Disclosure (2013)	personal credentials to a company? *
None of the above	I don't mind giving up my credentials
Other:	Instant Gratification eg. Downloading a freebie
	or getting a discount coupon
	Everyone else does it
How active are you when it comes to taking	Presence of a trusted logo eg. a lock icon which
measures to protect your privacy online? (Read	reassures me that my data is safe
Description) *	I'll get personalized deals and services in return
If you do all of them or more regularly then	Other:
check 5, if you do any 4 of these then check 4	
and so on. Measures like: Deleting browser	Are you more likely to buy products or services
cookies and history, using different search	from a company that takes measures to protect
engines, setting unique passwords, using VPNs,	your privacy over one which doesn't? *
having a separate email address for promotional	Yes
services, etc.	No
I don't take any measures	- 1 -
1	My decision is not affected by that
2	Any queries/suggestions?
3	
4	