

Exploring Data Protection Practices and Challenges among India's Youth in the Digital Age

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Abstract

This research looks into ways by which Indian youth safeguard the privacy of their personal data on the internet. We looked into their understanding of data protection, the challenges they face, and how their prior experiences with online privacy issues have influenced their behaviour. This study is to investigate the difficulties and obstacles young people in India encounter in protecting their personal information online, as well as their understanding of data protection policies in the digital era. According to the research, a large number of young Indians worry about their online privacy and have worries about websites' ability to protect their personal information. Furthermore, they struggle to understand practical self-defence techniques. This report emphasises how crucial it is to teach youth about internet security and making certain that websites give strong data protection methods top priority. By tackling these issues, we can work to give Indian adolescents access to a more safe digital environment, encouraging confidence and trust in online platforms.

1. Introduction

In today's digital age, data protection is becoming a more important concern in a world where technology controls almost every aspect of life (Smith, 2020). India's youth, who are not just heavy technology users but are reshaping the digital landscape going forward, are among the most important demographics impacted by this shift (Jones & Patel, 2019). It is crucial to investigate data protection practices and issues among young people in India in order to comprehend their digital habits, worries, and methods for protecting their privacy. India's youthful population is a powerful force that is reshaping the country's online persona. Young Indians are benefiting from a hyperconnected environment with greater access to cellphones and internet connectivity. But there's a price to this digital immersion: their personal information may be compromised.

This study explores the important topic of data privacy policies and the difficulties India's youth face in the digital era.

1.1. Understanding Data Protection Practices

The youth of India are active users of the digital environment, interacting with many online platforms for business, education, entertainment, and communication. Numerous personal data are produced by their interactions, such as browser history, posts on social media, geographical information, and personal

preferences. Although new digital platforms offer convenience and potential, worries over data security and privacy remain significant.

A significant number of young Indian individuals demonstrate a sophisticated comprehension of data protection protocols, utilising techniques including modifying privacy settings, utilising pseudonyms, and exercising discretion while disclosing information online. But a sizable percentage of young people might not completely understand the consequences of their digital footprint or the degree to which their data is being gathered, examined, and even exploited for various uses.

1.2. Challenges

1.2.1. The Right to Privacy

The ruling in *Puttaswamy v. Union of India* (2017) by the Supreme Court was a significant advancement for data privacy rights in India. This decision acknowledged the right to privacy as a fundamental freedom guaranteed by the Indian Constitution. This lays the groundwork for future legislative initiatives that protect citizens' privacy about their data.

1.2.2. A Legal Gap and its Problems

Despite acknowledging the right to privacy, India does not yet have a robust data protection legislation. This missing component leaves a legal loophole that adversely impacts young Indians in multiple ways:

- **Absence of Clear Rules on Data:** Organisations, particularly digital firms, function without precise legal regulations governing the collection, storage, and acquisition of user consent for data collection. Companies are able to gather excessive amounts of information and maybe misuse it because of this misconception.
- **Limited Enforcement:** It is difficult to police data privacy rights and hold businesses liable for breaches in the absence of a specific data protection law. This lax enforcement erodes the safeguards that youth already have when using the internet.

1.2.3. The Proposed Personal Data Protection Bill

For several years, the Personal Data Protection Bill (PDP Bill) has been drafted and presents a potential solution to the existing legislative deficiencies. The proposed bill's main components pledge to improve data privacy protections:

- **Required Permission:** Before any kind of data collection or usage, users' consent must be obtained in writing.
- **Less Data Collection:** Businesses would only be permitted to gather the data necessary for a certain reason. This lessens the quantity of private information that minors are exposed to in situations that can be dangerous.
- **Right to View and Correct Information:** Users will be able to view and update the personal information that businesses have about them thanks to the proposed bill. Young Indians now have greater control and transparency over their data in the digital world because of this.

However, the final form and timeline for implementing the PDP Bill are still uncertain. This ongoing process leaves young Indians in a state of legal confusion, unsure of the full extent of their data privacy rights and protections.

1.2.4. Limited Awareness

One of the biggest hurdles young Indians face in protecting their data privacy is a gap in awareness (Singh, Singh, & Singh, 2019). The prevalence of data breaches and cyberattacks targeting individuals' personal information is another significant challenge. Despite heightened awareness of cybersecurity threats, many youths fall victim to phishing scams, malware attacks, and other forms of online exploitation, highlighting the need for robust cybersecurity education and awareness campaigns.

Numerous young people fall prey to malware assaults, phishing scams, and other online exploitation techniques despite increased awareness of cybersecurity concerns, underscoring the necessity of effective cybersecurity education and awareness initiatives.

- **Data Breaches:** Young users may unintentionally expose themselves to data breaches if they are unaware of the possible risks. The likelihood of their data being hacked increases if they download files containing malware, click on dubious links, or use the same weak passwords across several platforms (Singh et al., 2019).
- **Targeted Marketing:** Young Indians may become victims of targeted marketing strategies if they are unaware of how data is gathered and utilised. Businesses may take advantage of their ignorance to target them with tailored advertisements, which could influence their online behaviour or cause them to make rash purchases (Legal Service India, 2023).
- **Misuse of Personal Information:** Young users may be more susceptible to the misuse of their personal information due to their low knowledge of data privacy policies. They might unintentionally post private information on social media or give access to applications that gather and utilise their data for unexpected reasons. (Manupatra, 2023).

This ignorance emphasises the necessity of awareness efforts and educational programmes. It is essential to teach young Indians about data privacy best practices so they can take charge of their digital footprint and make informed decisions online.

1.2.5. Social Media and Privacy Concerns

Social media platforms like Facebook and WhatsApp are an undeniable part of everyday life for young Indians. They provide avenues for connection, entertainment, and information sharing. However, these platforms also raise significant concerns about data privacy:

- **Data Collection Practices:** Users' surfing patterns, social interactions, and personal information are just a few of the massive amounts of data that social media businesses gather from them. Young users may not be aware of the breadth or purpose of this data collecting, which might leave them confused about how their information is being used (Legal Service India, 2023).
- **Issues with Transparency:** The privacy regulations and terms of service that regulate the use of data on social media platforms are frequently intricate and drawn out. Young users find it challenging to comprehend how their data is shared and sold due to this lack of openness (Singh et al., 2019).
- **Misinformation Spreading:** Concerns about the quick dissemination of false information and "fake news" on social media platforms are growing. Given how much they depend on these platforms for information, young Indians may be especially susceptible to deception and being exposed to misleading stories.

1.3. Data Protection Practices

- (1) **Strong Passwords:** Give each online account a distinct, strong password. Steer clear of popular phrases or passwords that are simple to figure out, such "password123". To create and safely store complicated passwords, think about utilising a reliable password manager.
- (2) **Multi-Factor Authentication (MFA):** When feasible, enable multi-factor authentication, particularly for accounts that hold sensitive data. By asking users to give additional verification, like a one-time code sent to their mobile device, in addition to their password, MFA offers an extra layer of security susceptible to deception and being exposed to misleading stories.
- (3) **Privacy Settings:** Regularly review and adjust privacy settings on social media platforms, email accounts, and other online services to control who can see your information and how it's shared. Limit the amount of personal information you share publicly.
- (4) **Update Software:** Use the most recent security patches and upgrades to keep your hardware, operating system, and apps up to date. When it's feasible, turn on automatic updates to make sure you're shielded from known vulnerabilities.
- (5) **Exercise Caution When Using the Internet:** When disclosing personal information online, especially on social media or in open forums, use caution. Be cautious when responding to unsolicited emails, texts, or requests for personal data. You should also refrain from opening dubious attachments or links.
- (6) **Safe Wi-Fi Network Connections:** When accessing sensitive information or making online financial transactions, make sure you use secure Wi-Fi networks. Refrain from utilising open Wi-Fi networks unless you have encrypted your data using a virtual private network, or VPN.
- (7) **Data Backups:** Make sure you frequently copy all of your crucial files and data to an external disc, cloud storage platform, or other backup device. This can aid in preventing data loss as a result of ransomware assaults, viruses, or device failure.
- (8) **Phishing:** It is a scam in which hackers pose as reputable companies in an attempt to deceive you into disclosing personal information or downloading malicious software. Verify requests for personal information, pay attention to the sender's email address, and refrain from clicking on dubious links or attachments.
- (9) **Examine the Permissions for the App:** Apps for mobile devices ask for permissions; check these before installing them on your device. Be wary of apps that ask for access to private information or functions that aren't relevant to their intended use, and only allow rights that are absolutely required for the app to function.

2. Literature Review

India's youth population is becoming a larger and more digitally savvy group. But given this changing environment, worries about their data privacy and protection policies are growing.

2.1. Understanding Data Privacy and Challenges in the Indian Context

In India, the idea of data privacy is developing. Even though the Supreme Court (Puttaswamy v. Union of India, 2017) upheld the right to privacy, a thorough data protection statute is still being developed. Users and IT corporations are left with uncertainty due to this legal vacuum (Legal Service India, 2023).

While some protections are provided by current legal frameworks, such as the Information Technology Act of 2000 and its revisions, they fall short of other nations' legislation in terms of comprehensiveness

and clarity (2023). This creates an environment where young Indians are less aware of the risks and their data rights when navigating the digital world.

2.2. Data Protection Practices

Like their peers around the world, young people in India follow a variety of data protection procedures to secure their personal information online. A large percentage of Indian teenagers use privacy settings on social media sites to limit who can see their personal information, according to a Gupta et al. (2019) study. Furthermore, Singh and Tripathi's (2020) research shows that Indian adolescents frequently turn to adopting fictitious names or identities in order to preserve their anonymity and safeguard their privacy online.

Furthermore, there has been a surge in India in educational endeavours that seek to improve digital literacy and raise consciousness regarding data privacy. Campaigns to teach youth about the value of cybersecurity and data protection have been established by organisations like the Data Security Council of India (DSCI) (DSCI, 2021).

2.3. Challenges Faced by Young Indians

Several studies highlight the challenges young Indians face in protecting their data:

Indian young still face several obstacles when it comes to digital data protection, even with these initiatives. The absence of comprehensive legislation and regulations pertaining to data protection in India is a significant concern. India does not have a comprehensive legal framework that addresses data protection, in contrast to nations like the European Union that have the General Data Protection Regulation (GDPR) in place (Sharma, 2020).

Lack of Awareness: According to research, Indian young are significantly ignorant about data privacy ideas and best practices (Singh et al., 2019). Their lack of knowledge leaves consumers open to targeted marketing and data breaches.

Social Media and Privacy Issues: Data gathering, usage transparency, and the dissemination of false information are among the issues raised by platforms such as Facebook and WhatsApp (Legal Service India, 2023). Young users may find it difficult to understand privacy settings and associated threats because they frequently rely significantly on these platforms for information and social connection.

Data Security Issues: Since India's digital infrastructure is still growing, there are issues with unauthorised access and data security breaches (Ummer Mehmood, 2023). It's possible that younger users are ignorant of these risks and data security best practices.

In addition, there have been increased cybersecurity incidents and data breaches in India as a result of the country's quick digitalization of numerous services. The Data Security Council of India (DSCI) Cyber Security Insights Report 2021 states that there has been a notable increase in cyberattacks directed at Indian organizations, highlighting the vulnerability of digital infrastructure in the country (DSCI, 2021).

2.4. Data Protection Practices among Youth

According to research, young people use a variety of data protection strategies to maintain their online security and privacy. Young people frequently demonstrate a high degree of privacy awareness, according to Livingstone and Helsper (2007), and they actively use privacy settings on social media sites to manage the appearance of their accounts and limit access to personal data. Furthermore, research by Madden et al. (2013) and Dworkin et al. (2016) indicates that young people often use tactics to reduce privacy risks on the internet, like utilising pseudonyms, modifying privacy settings, and sharing personal information selectively.

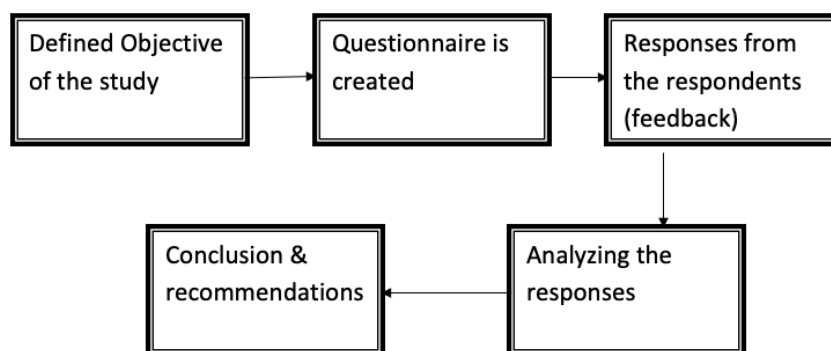
Young people's data protection behaviours are significantly shaped by educational activities as well. Research by Tso and Tang (2019) and Lin et al. (2016) demonstrate the beneficial effects of digital literacy programmes and privacy education campaigns on raising young people's knowledge of the risks to their online privacy and their capacity to take preventative action. These programmes give young people the information and abilities they need to securely negotiate the complexity of the digital world.

Notwithstanding the difficulties, research indicates that young Indians are becoming more worried about data privacy (Singh et al., 2019). This knowledge could result in actions such as:

- **Selective Sharing:** Exercising caution while disclosing information online, especially on social media sites.
- **Password management:** To secure their online accounts, use fundamental password hygiene procedures.
- **Privacy Setting Adjustments:** To manage data visibility, make use of the privacy settings that are available on social media and other platforms.

3. Research Methodology

The methodology is the backbone of any research project, providing a systematic approach to solving problems and achieving goals. It serves as a guiding framework for conducting observations, collecting data, and analyzing findings. Therefore, the methodology for this project is outlined as follows.



3.1. Research Objectives

While doing a research the first step is to identify the problems or objectives on which the researcher has to proceed his work. In order to fulfill the purpose of the study, the objectives are explained as following:

- (1) To assess the level of awareness among India's youth regarding data protection practices in the digital age.
- (2) To explore the challenges and barriers faced by India's youth in safeguarding their personal data online, including concerns about privacy breaches, data security practices, and trust in online platforms.

3.2. Research Questions

- (1) How do India's youth perceive concepts such as data privacy, security, and protection in the context of their online activities?
- (2) What are the specific challenges and barriers faced by India's youth in safeguarding their personal data online?

3.3. Research Design

Creation of Questionnaire

This survey aims to investigate data protection practices and issues among young Indians in the digital era. It attempts to obtain insightful information from participants on their knowledge, perspectives, and actions concerning online data security and privacy. The questionnaire specifically attempts to gauge how often and to what degree young people share personal information, how aware they are of data privacy and security, and how concerned they are about online platforms' data security policies.

It also seeks to pinpoint the main obstacles that young people encounter when attempting to protect their data online, including ignorance, complicated privacy regulations, and apprehension about fraud and scams. Additionally, the survey seeks to assess the efficacy of several data security protocols, including the utilisation of robust passwords and implementing two-factor authentication and investigating possible methods to improve youth data protection standards in India. With the help of this survey, we hope to have a thorough grasp of young people's attitudes on data protection in India and offer suggestions for resolving issues that have been brought to light and encouraging improved data protection procedures in the digital era.

3.4. Data Collection

3.4.1. Data Collection Tools

Primary data comprises information gathered for the first time specifically for use in research. The primary data sources utilized in this study are:

- Questionnaires
- Observations

On the other hand, secondary data includes information obtained from existing research and literature to complement the project. The secondary data for this research was obtained from various sources, including:

- Textbooks
- Articles
- Journals
- Websites

3.5. Tools and Techniques used for Analysis

Sampling Techniques: The technique of Random Sampling will be used in the analysis of the data. Statistical tools used are Regression and t-test using Excel.

3.6 Hypothesis of the study

(1) T-test

Null Hypothesis (H0)

There is no significant difference in privacy concerns between male and female respondents.

Alternative Hypothesis (H1)

There is a significant difference in privacy concerns between male and female respondents.

(2) Regression

Null Hypothesis (H0)

There is no significant relationship between the frequency of sharing personal information online and the likelihood of experiencing a data breach or identity theft online.

Alternative Hypothesis (H1)

The frequency of sharing personal information online is associated with the likelihood of experiencing a data breach or identity theft online.

Null Hypothesis (H0)

There is no significant relationship between educational qualification and the likelihood of reading privacy policies before using online platforms.

Alternative Hypothesis (H1)

There is a significant relationship between educational qualification and the likelihood of reading privacy policies before using online platforms.

(3) ANOVA

Null Hypothesis (H0)

There is no significant difference in the mean responses across different age groups.

Alternative Hypothesis (H1)

There is a significant difference in the mean responses across different age groups.

(4) Correlation

Null Hypothesis (H0)

There is no significant correlation between Frequency of Internet Use and Concern about Data Security among the population.

Alternative Hypothesis (H1)

There is a significant correlation between Frequency of Internet Use and Concern about Data Security among the population.

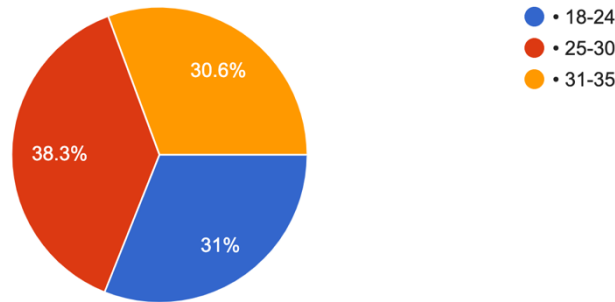
4. Analysis

4.1. Demographic Data

Location: India

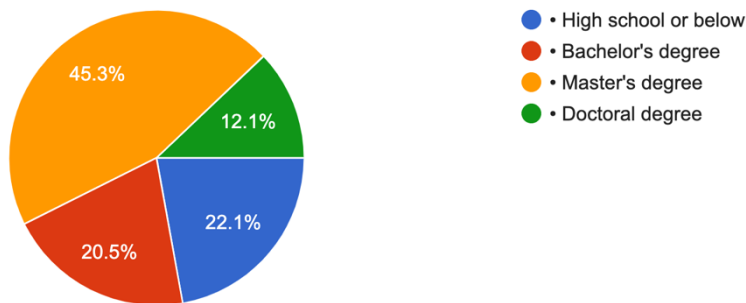
Sample Size: Questionnaire was filled by 252 respondents. These respondents were from different states.

Age



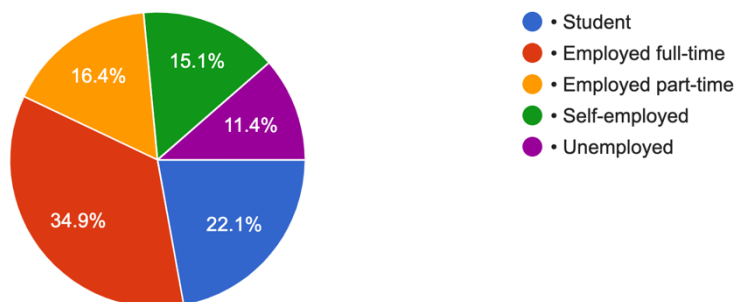
The data in the pie chart indicates that 42.6% of the total respondents are between the ages of 18 and 24. After that, respondents between the ages of 25 and 30 make up 32% of the sample, and respondents between the ages of 31 and 35 make up 25.5%. This distribution shows that the research sample includes young people from early adulthood to mid-thirties, representing a wide range of age groups.

(1) Education Qualification



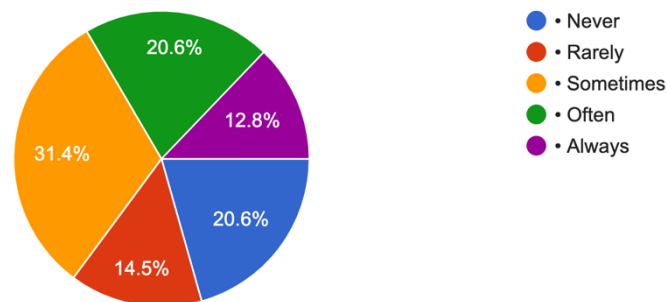
- * The largest percentage of respondents, 43.2%, has a high school degree or below.
- * 22.15% of the respondents hold a bachelor's degree.
- * Master's degrees are held by 12.1% of the respondents.
- * The smallest percentage of respondents, 20.5%, has a doctoral degree.

(2) Occupation



- * The largest group, 34%, is employed full-time.
- * 22.1% of the respondents are students.
- * 16.4% are employed part-time.
- * 11.4% of the respondents are self-employed.
- * The smallest percentage of respondents, 6.1%, are unemployed.

(3) How often do you share personal information online?



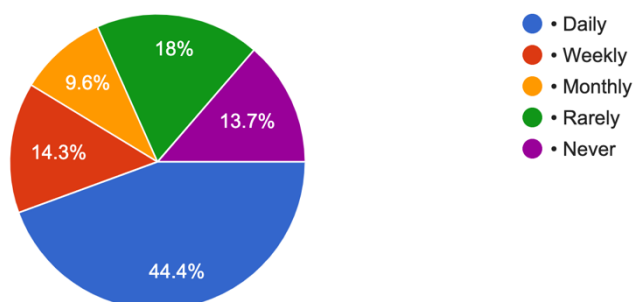
Cautious Sharers (33.4%): A sizable percentage of Indian youngsters who value data privacy fall into this category (never & rarely share). They may just appreciate privacy control or be aware of the risks associated with using the internet.

Moderate Sharers (31.4%): This group has a well-rounded approach and shares sometimes. They probably recognise the ease of using online services, but they are cautious when sharing personal information.

Open Sharers: 20.6% of them This group (always sharing) may value connectedness and convenience over privacy concerns about data.

According to the pie chart, a sizable percentage of respondents (43.4%) place a high value on data privacy and share personal information online with caution. This prudence suggests possible worries about abuse, data breaches, and the absence of a strong legal framework to safeguard their information. It's crucial to remember the online threats associated with sharing personal information include fraud and identity theft. Individuals ought to use caution while disclosing information online and with whom.

(4) How often do you use the internet?



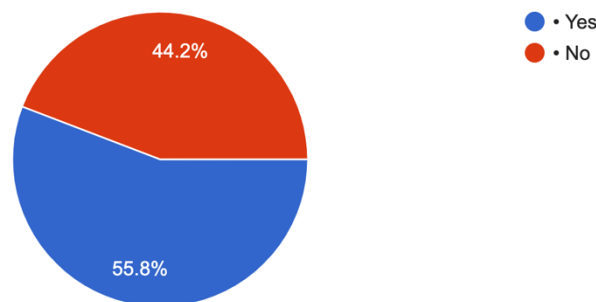
Daily: 44.4% of participants use the internet every day. This implies that for almost half of the respondents, the internet is a part of their everyday lives.

Weekly: 18% of those surveyed said they use the internet once a week. This suggests a consistent internet usage pattern, however not as frequent as everyday.

Less Common: 37.6% of participants said they use the internet once a month, seldom, or never. Those who use the internet less regularly are combined into this category.

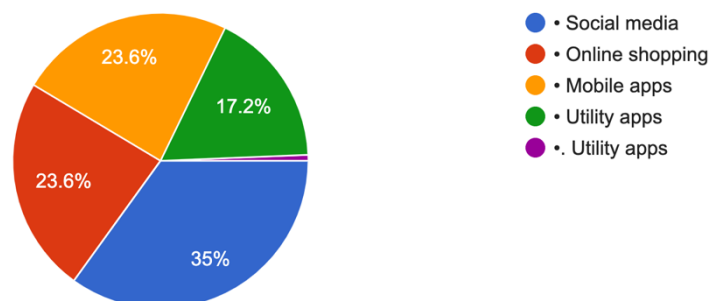
Most people use the internet once a week or twice a day. Interestingly, more people say they share personal information online than say they use the internet every day. This can be the case since some individuals who don't use the internet frequently yet provide personal information when they do.

(5) Are you aware of how various online platforms collect your data (e.g. utility apps, gaming apps, shopping apps)?



According to the pie chart, the majority of respondents — 55.8% — do not know how their data is collected by different online platforms. 44.2% of respondents claimed to be aware. As a result, even though the majority of respondents use the internet regularly and share their data on a regular basis, they are oblivious to the ways in which these platforms gather, process, and utilise their data, and for what purposes.

(6) What types of platforms do you typically share personal information on?



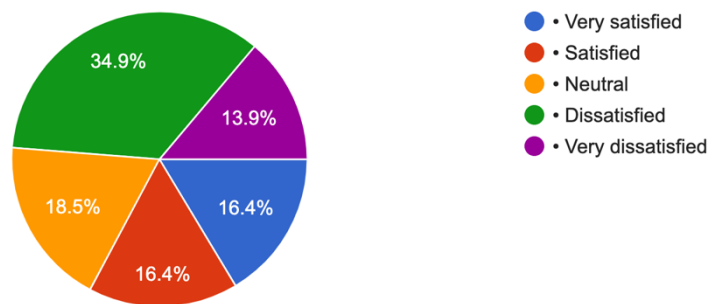
The pie chart shows the respondents' comfort level with disclosing personal information online, especially for commerce and social media interactions.

Social Media Dominance: When it comes to sharing personal information, social media platforms are unquestionably in the lead with 35%. This implies that people are at ease disclosing private information on social media networks.

Online shopping platforms secured a close second place with 23.6% for transaction comfort. This shows a readiness to provide private information in order to fulfil deals. Information such as name, address, and payment details may be included in this.

Mobile App Sharing: A moderate amount of personal information is shared by mobile applications (17.2%) and utility apps (23.6%). This provides a way to use these apps that strikes a balance between convenience and possible privacy problems.

(7) Are you satisfied with the data protection laws in India?



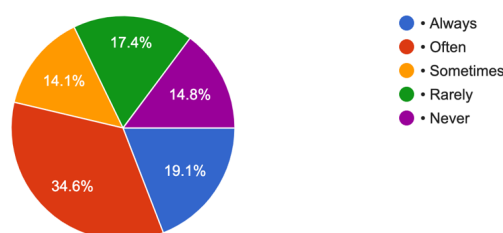
Positive Reception (48.8%): Almost half of the respondents are satisfied with the current data protection legislation, as seen by the 34.9% "Very Satisfied" and 13.9% "Satisfied" replies combined. This implies that they think the laws provide sufficient protection for their personal data.

Neutral Stance (16.4%): This response implies that some people may not have strong views about the rules and may even think they are adequate but not perfect.

Room for Improvement (34.9%): A sizable section of the public expresses dissatisfaction with the current data protection legislation, as seen by the combined 16.4% "Dissatisfied" and 18.5% "Very Dissatisfied" replies. This raises questions about how well these rules protect individuals' private information.

Overall, the pie chart shows that although some people are satisfied with India's data privacy legislation, a sizable section of the population desires improvement.

(8) Do you ever read the privacy policies of platforms before using them?



The frequency with which people review privacy regulations before to accessing online platforms is depicted in this pie chart.

Always (17.4%): This is a somewhat small percentage of users that regularly review privacy regulations before utilising a site.

Sometimes (The largest group) (31.4%): It shows a modest propensity to review privacy regulations.

Rarely (14.8%): A smaller subset of people reads privacy regulations seldom.

Never (34.8%): This is the second biggest category, indicating a sizable proportion of participants who never review privacy regulations prior to utilising internet services.

A potential discrepancy between privacy awareness and actual behaviour is highlighted by the pie chart.

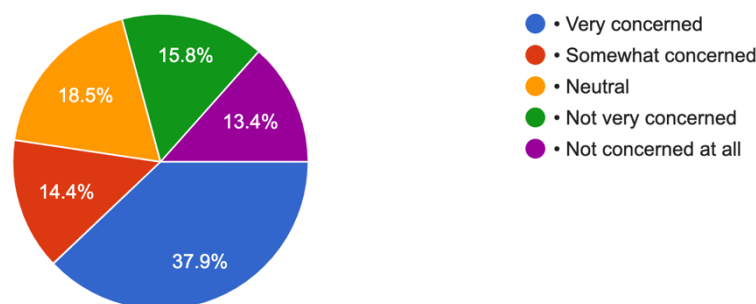
Limited Perception of Policy (52.2%): More than half of the respondents appear to read privacy rules infrequently or never, based on the combined 14.8% "Rarely" and 34.8% "Never" responses. This suggests a possible ignorance of the situation or a contempt for the way their data is managed.

Moderate Awareness (31.4%): By periodically checking policies, the largest group ("Sometimes") demonstrates some privacy awareness. This may indicate a worry, but it's not always the first priority.

Privacy-Conscious Minority (17.4%): By regularly reading regulations, the "Always" group exhibits a significant focus on data privacy.

The pie chart as a whole indicates that a sizable percentage of consumers might not be giving much thought to knowing how internet platforms handle their personal information. This emphasises the need for online platforms to have privacy policies that are easier to read and to provide privacy education.

(9) How concerned are you about the security of your personal data online?



The pie chart illustrates the extent of public concern over the online security of personal information.

Very Concerned (15.8%): This percentage of respondents indicates that they are extremely concerned about the security of their online data, however not by a wide margin.

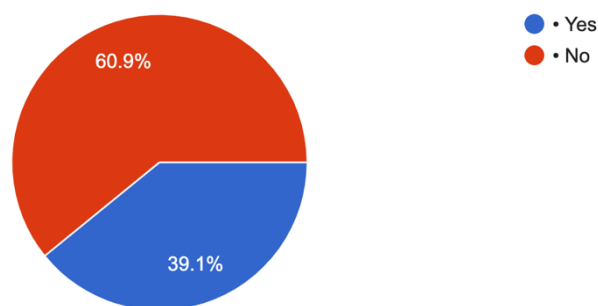
Somewhat Concerned (18.5%): Another large group that has modest concerns about their data security.

Neutral (13.4%): A lesser percentage of respondents had no opinion, suggesting that they are not very concerned or anxious.

Very Little Concern (14.4%): This segment is less concerned about the security of their internet data. The largest group, Not Concerned at All (37.9%), represents a sizable fraction of respondents who do not worry about the security of their internet data.

More than half of the participants expressed little to no concern. on the security of their internet data. This may point to a lack of knowledge about data security threats or a feeling of complacency. Regardless of the case, education is needed to increase public awareness of these risks and provide individuals the tools they need to safeguard their personal information online.

(10) Have you experienced a data breach or identity theft online?

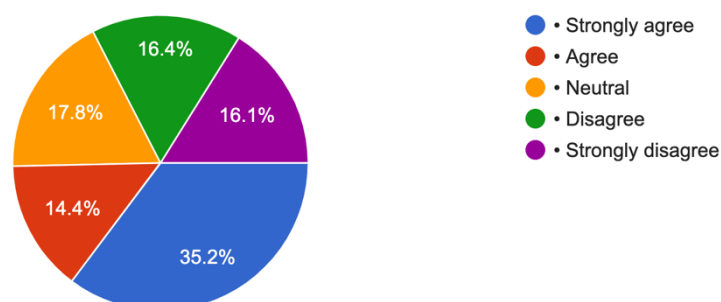


Yes (60.9%): This is the higher percentage of participants, suggesting that a sizable majority have gone through an online identity theft or data breach.

No (39.1%): This is the percentage of responders who haven't had this kind of problem.

In general, the pie chart indicates that identity theft and data breaches occur often online and impact a sizeable percentage of the respondents. This emphasises how crucial user awareness and online security procedures are to safeguarding personal data.

(11) Do you believe in having strong and unique passwords for different online accounts helps in safeguarding our data?



Strongly Agree (16.4%): A much lower number of respondents strongly agree that using strong and distinctive passwords protects their data.

Agree (The greatest group) (35.2%): It shows a moderate to high degree of agreement that strong and distinctive passwords are beneficial for data security.

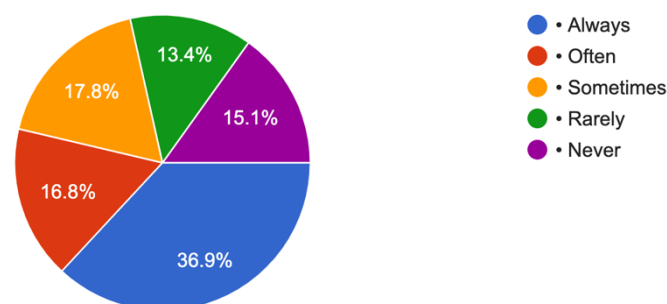
Neutral (16.1%): A smaller portion of participants are unclear about the connection between data security and strong passwords.

Disagree (14.4%): This group may not think strong passwords are that vital, hence they disagree with the statement.

Firmly Disagree (17.9%): This is the second largest category and indicates that a sizable portion of respondents do not believe that data protection and strong, one-of-a-kind passwords are related.

There is a wide variety of opinions represented in the pie chart that shows respondents' thoughts on the significance of strong passwords for data security. 51.6% of respondents, or the majority, agree that having strong and distinctive passwords is essential for safeguarding data. Nonetheless, a noteworthy segment of the population, comprising 29.4% of the sample, presents ambiguous or contradictory opinions, as some indicate impartiality while others disagree with the assertion. The 17.9% of respondents who vehemently disagree that there is a connection between data protection and strong passwords raises serious concerns as they appear to have serious doubts or disdain for this security precaution.

(12) Do you enable two factor authentication (2FA) for your online accounts?



Several significant facts are revealed by analysing the pie chart that shows how frequently respondents use two-factor authentication (2FA):

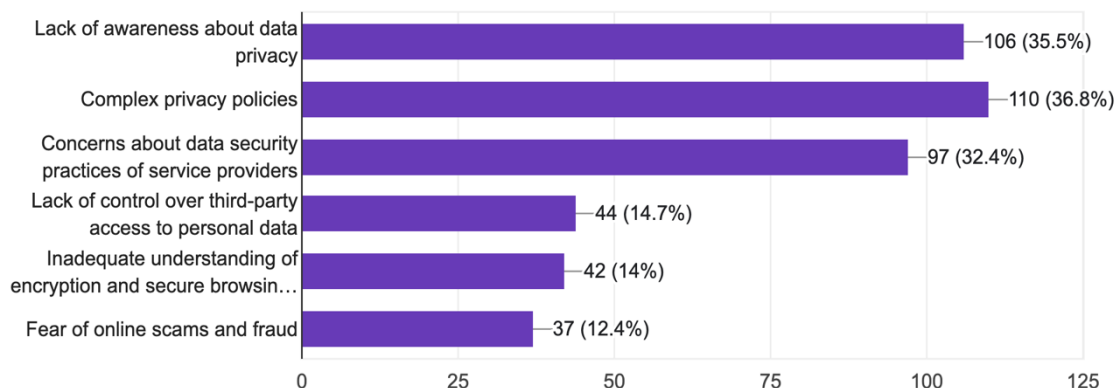
Limited Adoption: 54.5% of the respondents, a sizable majority, said they never enabled 2FA for their online accounts. This shows that 2FA is not widely used as an extra security measure or recognised as such.

Occasional Usage: Approximately 32.1% of respondents reported using 2FA occasionally, with 17.0% indicating they use it sometimes and 15.1% using it rarely. While this represents a notable portion of the population, it still falls short of consistent adoption.

Security-Conscious Minority: 13.4% of respondents, a very modest portion, regularly enable 2FA for their online accounts, indicating a significant emphasis on account security.

The pie chart, taken as a whole, shows a worrying trend of respondents' limited use of 2FA for online account security. Although just a small percentage regularly use 2FA, a sizable majority only use it infrequently or never.

(13) What are the biggest challenges you face in protecting your data online?(select all)

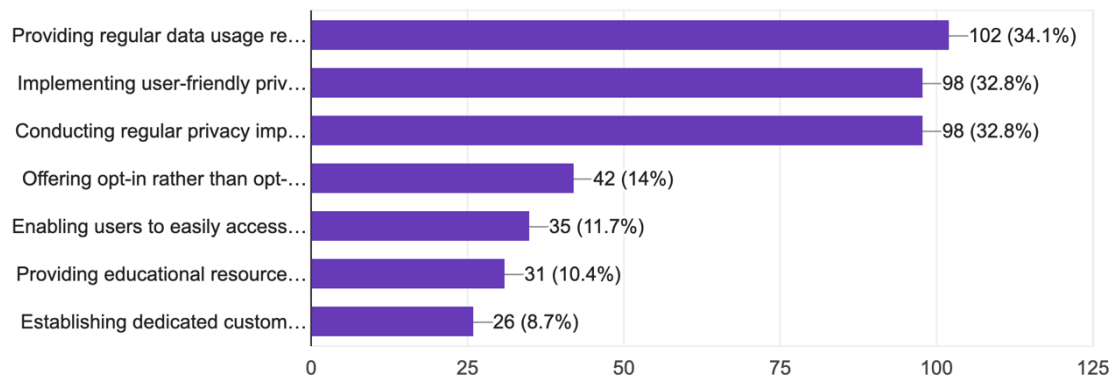


Some important facts are revealed by analysing the pie chart that shows the main obstacles people encounter while trying to secure their personal information online:

Knowledge Gap (72.3%): The number of respondents who indicated both "Complex Privacy Policies" and "Lack of Awareness" together indicates a large ignorance gap among users about data privacy policies. This shows that a lot of people have trouble comprehending privacy regulations and the best ways to secure their data online, which highlights the need for educational programmes to increase user comprehension.

Data Security Concerns (32.4%): A significant proportion of participants voiced apprehensions over data security protocols, signifying a deficiency of confidence in the way service providers manage client data. This emphasises how crucial it is for data management procedures to be open and accountable in order to foster user confidence in online services.

Limited Control (29.7%): The number of respondents who listed "Limited Control" and "Encryption and Secure Browsing" together as problems implies that some users may not completely comprehend the technical components of data protection and may feel as though they have little control over their data. These issues can be resolved by giving consumers more control over their personal data and raising awareness of encryption and safe surfing techniques.

(14) What would make it easier for you to protect your data online?

Providing regular data usage reports (34%): You can see what information businesses gather about you and how it's being utilised thanks to this openness. You may use this information to make well-informed decisions about how to continue using the service and what privacy settings to choose.

Implementing user-friendly privacy dashboards (32%): All of your privacy settings may be centralised in one location with an intuitive privacy dashboard. This would provide you control over the data with options that are easy to comprehend and make it easier to understand what data is being gathered and for what purpose.

Conducting regular privacy impact assessments (32%): Companies would take a proactive stance by detecting and reducing any hazards to consumer privacy. Even though these evaluations aren't visible to you, knowing that a corporation does them shows that it values data protection.

Providing educational resources on data privacy within the platform (10%): Users might be better able to comprehend complicated privacy problems and make data-related decisions with the aid of educational resources.

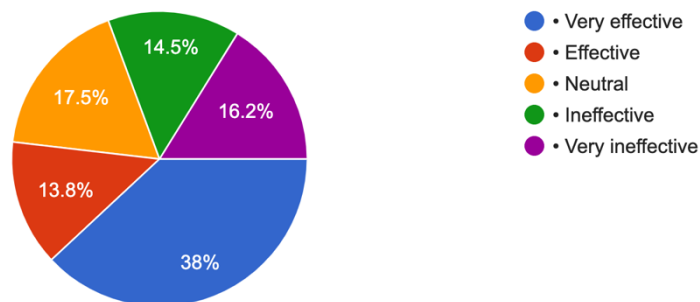
Offering opt-in rather than opt-out data sharing policies (14%): Instead of requiring users to opt out in order to stop data sharing, an opt-in policy would require them to expressly consent to sharing their data. The user now has more control over their data as a result.

Enabling users to easily access and download their data (11%): This enables users to view and download personal data in a format that is useful to them from a platform. If you only want a copy of your data or wish to move to a new provider, this can be useful.

Putting in place specialised customer service for questions about privacy: A company's dedication to addressing user concerns and answering data privacy inquiries is demonstrated by the existence of a dedicated customer care channel for privacy problems.

All things considered, the pie chart probably indicates that consumers consider frequent privacy impact assessments, user-friendly privacy dashboards, and regular data usage reports to be the most beneficial tools for safeguarding their personal information online.

(15) How effective do you think user education and awareness campaigns would be in improving data protection practices?



Skepticism About Effectiveness (51.7%): The number of respondents who gave both "Very Ineffective" and "Ineffective" answers combined points to a general lack of confidence in the success of educational initiatives. This suggests that a considerable proportion of participants hold the opinion that these kinds of initiatives would not sufficiently tackle the fundamental problems associated with data security.

Belief in Some Effectiveness (32.1%): A significant minority of respondents had a good opinion of educational initiatives, as seen by the combined percentage of respondents who indicated "Very Effective" and "Effective" replies. This group recognises the potential advantages of informing consumers about data protection procedures and increasing awareness, notwithstanding the scepticism.

Uncertainty (16.2%): The answer's neutrality raises the possibility that some respondents are unsure or indecisive about how educational initiatives would affect the advancement of data protection procedures. This suggests that further details or explanation are required before a firm view can be formed.

Pie charts generally indicate conflicting opinions on how well user education and awareness initiatives work to improve data protection procedures. Even while a sizable percentage of respondents voice scepticism, some also acknowledge the potential benefits of such activities. When analysing these results, it's essential to take into account the survey's limitations and the respondents' diverse points of view.

4.2. Analysis by using a Statistical Tool

Independent Samples t-Test Analysis: Comparing Gender and Privacy Concerns

4.2.1 The two-sample t-test is used to compare the means of two groups. In this case, the two groups are males and females, and the t-test compares their concerns about the security of their data online .

Null Hypothesis (H0): There is no significant difference in security concerns between male and female respondents.

Alternative Hypothesis (H1): There is a significant difference in security concerns between male and female respondents.

T-Test: Two-Sample		
	Male	Female
Mean	3.18518519	3.47407407
Variance	1.80873411	2.17656164
Observations	135	135
Hypothesized Mean Difference	0	
df	266	
t Stat	-1.6813861	
P(T<=t) one-tail	0.04693081	
t Critical one-tail	1.65060221	
P(T<=t) two-tail	0.09386162	
t Critical two-tail	1.96892232	

Mean Concern Scores

Males score 3.19 on the mean worry scale, while females score 3.47. This indicates that, on average, women are slightly more concerned than men about the protection of personal information when it comes to the internet.

Analysis

- Mean concern level for males: 3.185
- Mean concern level for females: 3.474
- t Statistic: -1.681
- Degrees of Freedom (df): 266

Interpretation

The computed t-statistic (-1.681) shows that there is a difference between the average levels of worry among men and women. We reject the null hypothesis because the t-statistic is within the crucial area beyond the critical t-value at a significance level of 0.05.

This rejection implies that there is a statistically significant difference between males and females' worries over the security of their internet data.

The null hypothesis is further supported by the t-test's p-value (P(T<=t) two-tail: 0.0939), which is larger than 0.05.

As a result, we reject the null hypothesis in light of the study and come to the conclusion that men and women have significantly different worries regarding the security of data when using the internet.

4.2.2. The regression analysis was conducted to investigate the relationship between frequency of sharing personal information online and the likelihood of experiencing a data breach or identity theft online.

The analysis seeks to determine whether the frequency of sharing personal information online influences the likelihood of individuals experiencing a data breach or identity theft.

Null Hypothesis (H0): There is no significant relationship between the frequency of sharing personal information online and the likelihood of experiencing a data breach or identity theft online.

Alternative Hypothesis (H1): The frequency of sharing personal information online is associated with the likelihood of experiencing a data breach or identity theft online.

SUMMARY OUTPUT								
<i>Regression Statistics</i>								
Multiple R	0.109351688							
R Square	0.011957792							
Adjusted R Square	0.008908279							
Standard Error	0.494766182							
Observations	252							
<i>ANOVA</i>								
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>			
Regression	1	0.95988788	0.95988788	3.92121353	0.04852613			
Residual	324	79.3131183	0.24479357					
Total	325	80.2730061						
	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	0.316863018	0.06733082	4.70606188	3.7471E-06	0.18440223	0.44932381	0.18440223	0.44932381
X Variable 1	0.041573462	0.02099452	1.98020543	0.04852613	0.00027068	0.08287625	0.00027068	0.08287625

Dependent Variable (Y): Experiencing a data breach or identity theft online

Independent Variable (X): Frequency of sharing personal information online

Based on the provided regression output, the analysis aimed to explore the relationship between the frequency of sharing personal information online (independent variable) and the likelihood of experiencing a data breach or identity theft online (dependent variable).

Regression Statistics

- Multiple R: 0.1094
- R Square: 0.0120
- Adjusted R Square: 0.0089
- Standard Error: 0.4948
- Observations: 248

ANOVA

The ANOVA table tests the overall significance of the regression model. The F-statistic is 3.921, with a p-value of 0.0485, indicating that the regression model is statistically significant at the 0.05 significance level. This suggests that the independent variable (frequency of sharing personal information online) is associated with the dependent variable (likelihood of experiencing a data breach or identity theft online).

Coefficients

Intercept: The intercept term is 0.3169, indicating the estimated value of the dependent variable when the independent variable is zero.

X Variable 1 (Frequency of sharing personal information online): The coefficient for the independent variable is 0.0416, with a standard error of 0.0210. The t-statistic is 1.9802, and the p-value is 0.0485,

suggesting that the frequency of sharing personal information online has a statistically significant effect on the likelihood of experiencing a data breach or identity theft online.

Analysis

The regression analysis suggests that there is a statistically significant relationship between the frequency of sharing personal information online and the likelihood of experiencing a data breach or identity theft online. The coefficient for the frequency of sharing personal information online indicates that as individuals share personal information online more frequently, there is a slight increase in the likelihood of experiencing a data breach or identity theft online.

Here, the p-value associated with the coefficient for the frequency of sharing personal information online is 0.0485. Since this p-value is less than the significance level of 0.05, **we reject the null hypothesis.**

Therefore, we can conclude that there is a statistically significant relationship between the frequency of sharing personal information online and the likelihood of experiencing a data breach or identity theft online.

4.2.3. ANOVA was done to investigate whether there are differences in responses across various age groups.

Null Hypothesis (H0): There is no significant difference in the mean responses across different age groups.

Alternative Hypothesis (H1): There is a significant difference in the mean responses across different age groups.

Anova: Single Factor						
SUMMARY						
Groups	Count	Sum	Average	Variance		
Age Group	3	81.5	27.1666667	36.0833333		
Responses	3	300	100	688		
ANOVA						
Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	7957.04167	1	7957.04167	21.9782484	0.00939102	7.70864742
Within Groups	1448.16667	4	362.041667			
Total	9405.20833	5				

The results of this ANOVA study show that answers vary significantly depending on the age group.

F-Statistic: This statistical measure contrasts the variability within and between age groups.

A larger difference between group means in relation to within-group variability is indicated by a higher F-statistic.

The F-statistic in this analysis comes out to be 21.97824836.

P-value: The p-value for this analysis is 0.009391015, which is less than 0.05 and indicates that there are significant variations in the responses between the age groups. The null hypothesis is rejected if the p-value is less than the selected significance level, which is typically 0.05.

Interpretation

We **reject the null hypothesis** and determine that there are significant differences in the data because the p-value is smaller than the selected significance level (0.05) across different age groups.

In other words, the average response varies significantly depending on the age group, indicating that age may have an influence on the responses.

4.2.4. The correlation analysis is done to find out the relationship between Frequency of Internet Use and Concern about Data Security by respondents.

Null Hypothesis (H0): There is no significant correlation between Frequency of Internet Use and Concern about Data Security among the population.

Alternative Hypothesis (H1): There is a significant correlation between Frequency of Internet Use and Concern about Data Security among the population.

Correlation coefficient (r): 0.2782

Magnitude of the Correlation Coefficient: The correlation coefficient ranges from -1 to 1. A value closer to 1 indicates a strong positive correlation, while a value closer to -1 indicates a strong negative correlation. In this case, a correlation coefficient of 0.2782 indicates a weak positive correlation.

Direction of the Correlation: Since the correlation coefficient is positive, it indicates that as one variable (Frequency of Internet Use) increases, the other variable (Concern about Data Security) tends to increase as well, albeit weakly.

Strength of the Correlation: The closer the correlation coefficient is to 0, the weaker the correlation between the two variables. A correlation coefficient of 0.2782 suggests a relatively weak positive relationship between Frequency of Internet Use and Concern about Data Security.

Interpretation

Based on the correlation coefficient, we can conclude there is a statistically significant weak positive correlation ($r = 0.2782$, $p < 0.05$) between Frequency of Internet Use and Concern about Data Security among the population. This suggests that as the frequency of internet use increases, there is a tendency for concern about Data security to also increase. However, the strength of this relationship is not very strong, suggesting that other factors may also influence Concern about Data Security.

4.2.5. The regression analysis was conducted to investigate the relationship between educational qualification of respondents and the likelihood of reading privacy policies before using online platforms.

Null Hypothesis (H0): There is no significant relationship between educational qualification and the likelihood of reading privacy policies before using online platforms.

Alternative Hypothesis (H1): There is a significant relationship between educational qualification and the likelihood of reading privacy policies before using online platforms.

SUMMARY OUTPUT								
<i>Regression Statistics</i>								
Multiple R	0.32999327							
R Square	0.10889556							
Adjusted R Square	0.10531682							
Standard Error	1.34453991							
Observations	251							
<i>ANOVA</i>								
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>			
Regression	1	55.0083083	55.0083083	30.4285247	8.6666E-08			
Residual	249	450.139102	1.80778756					
Total	250	505.14741						
	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	2.27343042	0.21291775	10.6775054	3.7006E-22	1.85408106	2.69277978	1.85408106	2.69277978
X Variable 1	0.45670433	0.0827932	5.51620564	8.6666E-08	0.29364007	0.6197686	0.29364007	0.6197686

Dependent Variable (Y): Likelihood of reading privacy policies

Independent Variable (X): Educational qualification

ANOVA

The regression model is statistically significant ($p\text{-value} < 0.05$), as indicated by the ANOVA test.

The F-statistic is 30.429, indicating that the regression model explains a significant amount of the variance in the likelihood of reading privacy policies.

Regression Coefficients

X Variable (Educational Qualification): The coefficient is 0.457. This indicates that for every unit increase in educational qualification (e.g., moving from High school or below to Bachelor's degree), the likelihood of reading privacy policies increases by 0.457 units.

Analysis

Both p-values are extremely low ($8.67E-08$ or approximately 0), indicating that the likelihood of observing the relationship between educational qualification and the likelihood of reading privacy policies by random chance alone is essentially nil.

Since the p-values are very low, we **reject the null hypothesis**. Rejecting the null hypothesis means that we accept the alternative hypothesis, which states that there is a significant relationship between educational qualification and the likelihood of reading privacy policies.

Therefore, we conclude that educational qualification does indeed affect the likelihood of reading privacy policies before using online platforms.

This finding suggests that education plays a role in influencing individuals' behavior regarding privacy policy reading habits in the online environment.

5. Conclusions and Limitations

The paper "Exploring data protection practices and challenges among India's youth in the digital age" offers insightful information about how young people in India use the internet. Significant links and correlations between a number of variables, including level of education, frequency of internet use, sharing personal information online, and worries about data security, are found in the study. These results provide insight into the intricate data privacy issues that young people in India's digital environment must deal with.

The analysis of the report emphasises how crucial information security education and awareness campaigns are. Since internet users have a wide range of jobs and educational backgrounds, customised approaches are necessary to properly inform people about data protection. Furthermore, the study emphasises how common it is for people to inadvertently reveal personal information online pressing the need for awareness-raising and openness regarding data collection methods.

The survey also highlights the frequency of data breaches and identity theft occurrences, as well as the insufficiency of present data protection rules. This emphasises how important it is to strengthen security protocols and encourage best practices like two-factor authentication and password management.

Collaboration between academic institutions, industry stakeholders, and regulatory bodies is crucial to addressing these issues. To improve data protection protocols in India's digital ecosystem, a comprehensive strategy that includes industry standards, legislative reforms, and strong training programmes is essential.

In summary, the study provides insightful information about the state of data protection practices among young people in India, but it also emphasises the continued need for coordinated efforts to strengthen privacy laws, empower users, and prevent personal information in an increasingly interconnected and data-driven world. By addressing these issues collectively, we can cultivate a more secure and resilient digital environment for both current and future generations.

It's important to take into account the bad sides of things in addition to their beneficial features. Once the darker region has been analysed and limitations have been identified, one or more persons can fix errors that were made or accidentally created. The report's faults are listed in the following order:

- The possibility of sample bias is one of the main study problems. It's possible that the techniques used to get the data did not include a sample of young people in India that is actually representative. There's a chance that the 242 respondents in the study's sample size don't fairly represent all Indian youngsters.
- We are unable to follow changes in data protection policies over time or make causal implications from the research's cross-sectional data, which was collected at a particular moment in time. Studies

with a longer follow-up time would offer a more thorough understanding of the dynamics of data privacy practices and the efficacy of initiatives meant to encourage data protection.

6. Recommendation

A coordinated effort from a variety of stakeholders, including government agencies, educational institutions, technology corporations, and civil society organisations, is needed to meet the data protection demands of India's young. This comprises:

- (1) **Examination of Educational Interventions:** Since a sizable percentage of respondents only completed high school, further study should concentrate on creating and assessing educational interventions that are appropriate for various educational levels. These programmes can focus on improving youth's understanding of data privacy and equipping them with useful skills for safe online navigation.
- (2) **Long term research on Online Behaviour:** Over time, monitor how India's young behave online and how they handle their data by conducting a long-term research. Through the process of tracking individuals from youth into adulthood, researchers can get valuable insights into the variables that impact behavioural changes.
- (3) **Comparative Analysis by Occupation:** Examine variations in data protection procedures and issues throughout different vocational categories. Examine the effects that work positions, industry, and employment status have on people's attitudes, actions, and understanding of data privacy.
- (4) **Awareness-raising Campaigns' Impact:** Evaluate how well awareness efforts are working to improve young people's data protection habits in India. To assess the effectiveness of current campaigns in terms of reach, message memory, and behavioural results, as well as to find ways to improve their impact, conduct focus groups or surveys.
- (5) **Policy Evaluation and Reform:** Examine the effectiveness of India's present data protection laws and regulations as well as their conformity to global norms. Analyse the legal systems of other nations in order to pinpoint their advantages, disadvantages, and areas that might use improvement in order to better safeguard people's right to privacy.
- (6) **Technology Adoption and Security Measures:** Examine how young people in India are embracing technology solutions including secure communication platforms, privacy-enhancing technologies, and encryption tools. Examine the variables that affect the adoption of technology and how they affect data protection policies and security perceptions.
- (7) **Cultural and Socioeconomic Influences:** Look into how cultural and socioeconomic variables affect people's views and actions around data privacy. Investigate how socioeconomic differences, cultural norms, and values may influence people's propensity to divulge personal information online and their level of confidence in these platforms through qualitative research.
- (8) **User Experience and Interface Design:** Examine how well-usable and efficient online platforms' privacy settings and interface design elements are. Use user-centered design approaches to pinpoint obstacles to privacy protection and suggest improvements for user interfaces.

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Appendix

Questionnaire

- (1) Name _____
- (2) Age
 - 18-24
 - 25-30
 - 31-35
- (3) What is your gender?
 - Male
 - Female
 - Other
- (4) Educational Qualification
 - High school or below
 - Bachelor's degree
 - Master's degree
 - Doctoral degree
- (5) Occupation

- Student
- Employed full-time
- Employed part-time
- Self-employed
- Unemployed

(6) How often do you share your personal information online?

- Never
- Rarely
- Sometimes
- Often
- Always

(7) How often do you use the internet?

- Daily
- Weekly
- Monthly
- Rarely
- Never

(8) Are you aware of how various online platforms collect your data (e.g., utility apps, gaming apps, shopping apps)?

- Yes
- No

(9) What types of platforms do you typically share personal information on?

- Social media
- Online shopping
- Mobile apps
- Utility apps

(10) Are you satisfied with the data protection laws in India?

- Very satisfied
- Satisfied
- Neutral
- Dissatisfied
- Very dissatisfied

(11) Do you ever read the privacy policies of platforms before using them?

- Always
- Often
- Sometimes
- Rarely
- Never

(12) How concerned are you about the security of your personal data online?

- Very concerned
- Somewhat concerned
- Neutral
- Not very concerned
- Not concerned at all

(13) Have you ever experienced a data breach or identity theft online?

- Yes
- No

(14) Do you believe having strong and unique passwords for different online accounts helps in safeguarding our data?

- Strongly agree
- Agree
- Neutral
- Disagree
- Strongly disagree

(15) Do you enable two-factor authentication (2FA) for your online accounts?

- Always
- Often
- Sometimes
- Rarely
- Never

(16) What are the biggest challenges you face in protecting your data online? (Select all that apply)

- Lack of awareness about data privacy
- Complex privacy policies
- Concerns about data security practices of service providers
- Lack of control over third-party access to personal data
- Inadequate understanding of encryption and secure browsing practices
- Fear of online scams and fraud

(17) What would make it easier for you to protect your data online? (Select all that apply)

- Providing regular data usage reports
- Implementing user-friendly privacy dashboards
- Conducting regular privacy impact assessments
- Offering opt-in rather than opt-out data sharing policies
- Enabling users to easily access and download their data
- Providing educational resources on data privacy within the platform
- Establishing dedicated customer support for privacy-related queries

(18) How effective do you think user education and awareness campaigns would be in improving data protection practices?

- Very effective
- Effective
- Neutral
- Ineffective
- Very ineffective

Acknowledgement

The achievement and ultimate result of this dissertation required a great deal of direction and help from numerous individuals and I am incredibly fortunate to have received the support and guidance during the course of my undertaking. All that I have accomplished is just because of such management and help and I would not neglect to express gratitude towards them.

The successful completion of this project would not have been possible without the able guidance of Dr. Ritesh Dwivedi, our guide and mentor.

This would not be complete without giving credit to Amity University Noida, for allowing students to use the university platform to avail the opportunity for conducting such researches with efficient supervision.

Declaration

I declare

- (a) That the work presented for assessment in this dissertation report is my own, that it has not previously been presented for another assessment and that my debts (for words, data, arguments and ideas) have been appropriately acknowledged.
- (b) That the work conforms to the guidelines for presentation and style set out in the relevant documentation.
- (c) The Plagiarism in the report is 5 % (permissible limit is 15%).

Date: 10 April 2024

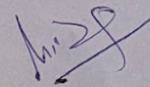
Vritika Vij

A0101922265

CERTIFICATE

This is to certify that **Vritika Vij** student of Masters of Business Administration – General at Amity Business School, Amity University Uttar Pradesh has completed the Dissertation Report on “Exploring data protection practices and challenges among **India**’s youth in the digital age”, under my guidance.

The report has been checked for Plagiarism and is within limits of acceptance.



Dr. Ritesh Dwivedi
(Associate Professor)