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ENSURING CONSUMER PROTECTION IN E-COMMERCE: CHALLENGES, REGULATIONS, AND FUTURE DIRECTIONS

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Abstract

They added that the expansion of e-commerce has nearly completely changed the consumer markets across the world, offering the consumers comfort, choice and reasonable prices. However, the expansion of such virtual marketplace also presents quite challenging issues to the protection of consumers. There has been a concern from regulators and consumers in areas of data privacy violations, counterfeits products, scams, and poor customer relations post sales. This study investigates the most significant obstacles that consumers face when it comes to protecting their interests in online commerce, as well as the solutions that have been implemented to solve these problems. Additionally, it assesses the efficacy of the laws that are currently in place and provides suggestions for enhancing the consumer protection system in the future. These suggestions include the utilization of emerging technologies such as blockchain and artificial intelligence, the enhancement of collaboration between nations, and the enhancement of the level of enforcement policies. The objective of this paper is to present a comprehensive description of how to achieve the organisational goal of making e-commerce environment safer and more believable to the customers while reviewing the global excellence and the gaps in the legislation on this subject.

Keywords:*E-commerce, Consumer protection, Digital marketplace, Regulation, Data privacy, Counterfeit and fake products, Cyber fraud, Artificial intelligence, Blockchain and Cross jurisdictional cooperation.*

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Introduction

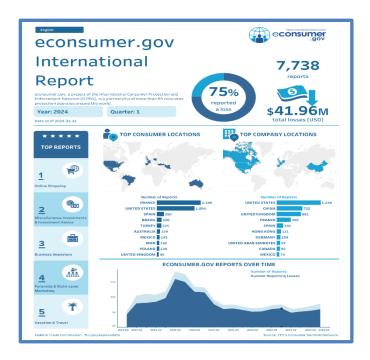
- Thus, in the global economy, e-commerce is an innovative solution that modifies customer acquisition of goods and services. Australia has witnessed a revolution in the manner that customers purchase goods as online shopping sites allow consumers to purchase products fast, easily, and with little or no difficulty—challenges presented by markets and stores. That is why such service's like e-commerce grew significantly with the help of technology advancement and the availability of the internet to the general populace. These potential also pose various challenges particularly in the protection of consumers.
- The alternative landscape of electronic commerce is far from simple; it is still far from being compared to physical regulating of transactions. Issues about privacy of data, misrepresentation in advertisement, merchants betrayals, and fake products are all common occurrences. Furthermore, the buyers' most common experiences are also problems in implementation of conflict-solving in consumer-producers relations, receiving accurate knowledge about a product or service, and post-purchase support. A global notion of e-commerce is a factor because customers and merchants may operate using several legal systems, and enforcing principles can be challenging.
- In order to address these questions, many modern international organizations and supranational regulators have developed their rules that would protect consumers in the digital market. There are four major goals behind those legislation which are openness, enhanced consumer rights, protection of personal information, and fair competition. However, these laws require constant amendments because several e-commerce formats develop quite rapidly, and it is crucial to adapt new emerging technologies, such as blockchain, AI, and digital payment platforms. Under the moniker Econsumer.gov, a group of consumer protection authorities from forty-one different nations are conducting investigations into the following categories of international internet fraud:
- Internet Shop, telecommunications, as well as computing equipment
- > Credit and debit card issues
- > Telemarketing and spam
- > Job placement, employment and earning capability
- > Imposter scams: imposing as family, friends, government agencies, companies, or even partners.
- Lottery, sweepstakes or prize scams
- > Travel and vacation offers
- Portable and hand-held communications devices, communicators and the like services

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Figure 1: Locations of the most popular consumers and businesses that provide online shopping



Data Source: econsumer.gov. (2024). *International Report: Year 2024, Quarter 1*. econsumer.gov.https://econsumer.gov

This consideration is necessary to address consumer protection in e-business within the region in consideration of the global outlook on e-business India. Considering India has a high rate of online consumer fraud it becomes crucial that the country has an efficient frame work in the e-governance system affecting their ease of doing business rankings. The 2019 Act, which amends the 1986 Consumer Protection Act, and the 2020 E-Commerce Regulation were both approved by the government in order to implement measures that would strengthen consumer protection against fraudulent activity in online commerce.

E-commerce Growth in India

India has seen exponential expansion in the e-commerce industry, driven by a population that is tech-savvy, rising internet penetration, and reasonably priced smartphones. This expansion has been further boosted by the emergence of digital payment platforms, government programs like Digital India, and an expanding middle-class consumer base. Based on current projections, the Indian e-commerce sector is expected to develop at a compound annual growth rate (CAGR) of

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more than 27%, from \$64 billion in 2020 to \$188 billion in 2025. India is now among the ecommerce markets with the quickest rate of growth in the world because to this upsurge.

This wonderful surge has been blamed for a number of things. Thus, having its own e-commerce platforms is becoming available outside the big cities; this is due to the fast growth of urbanisation and the consumer's buying behaviour shift to the online format, especially for tier 2 and tier 3 cities. Also, the COVID-19 epidemic has influenced consumers' behavior greatly that is proved by the increased amount of purchases of such essential products, technologies, and health-care goods online. Currently, the key players in the Indian business are Flipkart and Amazon, India, and the relatively new entrant JioMart belonging to Reliance Industries Ltd Major competitors have expanded the offers and invested in the development of infrastructure and the latest technologies. In addition, newly emerged B2C platforms in grocery, furniture, fashion and so on have expanded the market and met various needs for customers. The development of e-commerce in India is, however, a relatively continuous and, besides the achievements noted above, it also has some problems, especially in the protection of consumers. More specifically, the following trends are being distinguished: • Consumers are getting more concerned with issues such as counterfeit products, false advertising, lack of adequate complaint handling mechanisms and, most recently, data protection. Furthermore, the consumer rights laws in India are very difficult to govern in a consistent manner due to the fact that the business climate in the nation is rather complicated due to the fact that it is inhabited by both local and foreign companies.

The Indian government is not oblivious of these problems it has taken the step to enhance the consumer protection across digital economy by implementing some changes. Many recommendation such as the Consumer Protection (E-commerce) Rules, 2020 and the Information Technology Act, 2000 amendments intends to regulate e-commerce platforms to safeguard the consumers' interest and bring responsibility and transparency. Plus, the aim of introducing the Personal Data Protection Bill is to make the laws related to the data privacy stricter. However, more and more often, there is a need for further analysis and amendment of laws regulating the activities of companies in the sphere of e-commerce.

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Figure 2: E-commerce activity on a global scale and online purchases made via international websites.



Literature Review

There is a growing amount of literature on consumer protection, regulatory frameworks, and difficulties in the digital marketplace as a result of the rapid rise of e-commerce piqueing the interest of academics and legislators. This study critically looks at important research and papers that provide light on the intricacies of the expansion of e-commerce and the changing landscape of consumer protection. Numerous research works have emphasised how e-commerce is revolutionising consumer behaviour. According to Gupta and Arora (2021), internet buying has become commonplace for people living in urban and semi-urban areas as a result of e-commerce's shift in customer preferences towards convenience and time efficiency. In a similar vein, Banerjee and Mishra (2020) contend that the COVID-19 epidemic has further intensified the trend of consumers, particularly millennials, depending more and more on online platforms for routine transactions. The authors also observe that this growth has led to ascare increase in issues to do with counterfeit products, asserted credibility, and trust of measures, and unscrupulous merchants, which are all perils to the health of the consumer.

Another area that the literature also demonstrates increasing concern on is consumer protection within the digital environment. In a survey done in 2019 on consumer mobility by Chawla & Sinha the authors found that while e-commerce platforms are convenient they come with their demerits such as opportunity for theft of customer's identity, fake goods and infringement of their privacy. This is according to the Internet and Mobile Association of India (2021) stating that due to customers providing and sharing highly ranked personal details, data privacy is becoming

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a more significant concern. Although the study provides a generally critical perspective on the current trend in data protection rules, it identifies specific failings that make consumers vulnerable to fraudsters and identity theft and the unlawful use of their information by unscrupulous merchants or other parties.

An important subject of current literature is the regulation of the rising risks related to e-commerce. This paper by Malik and Kumar (2020 built on the premise that the existing laws are capable of protecting consumers' rights and exploits this concept to analyze India Consumer Protection (E-commerce) Rules, 2020. These regulations require platforms to post information on refund policy, payment options and complaint reporting information to the public, while placing stronger requirements on selling businesses. These include the Federal Trade Commission (FTC) of the United States and the General Data Protection Regulation (GDPR) of the European Union. The authors also provide additional international best practices in addition to the ones that have been mentioned above. These practices have also been recommended for consideration when making reforms to the laws that govern e-commerce in India.

For more information regarding the challenges faced in cross border e commerce, where consumer rights are not protected due to difference in laws, the studies by Pal and Bhattacharya (2020) Because policies regarding customs, returns, refunds, and counterfeit Product may differ, buyers who purchase from International dealers are likely to find themselves in a fix. In the literature calls for increased collaboration across national borders are made with a view of bringing about legal convergence and to protect consumers in cross border transactions including those facilitated by giants such as Amazon and Alibaba.

Previous study has investigated a number of developing technologies in order to investigate the ways in which these technologies might contribute to the improvement of consumer safety within the e-commerce system. AI and blockchain have attracted much attention as potential approaches to improving transaction fraud detection, tracking, and protection in online transactions. To reduce the likelihood of customer dissatisfaction, Patil and Mehra's work on AI in 2022 on detecting fake products, future fakes, and recommending customers on customized offers. In the view of Sharma and Jaiswal (2021), blockchain could build a distributed ledger to enhance the levels of supply chain transparency while ensuring the actuality of the products, and also minimize the rate of e-commerce scams.

Regarding the need to adapt to new risks of e-commerce, several authors have stated that the environment of regulation should shift. According to Gupta et al. (2022), the consumer protection regulation has to reviewed from time to time because of the emergence of new threats which include algorithmic biases and the improper use of big data and other AI-based decision

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making systems. The authors also stress the need for enhanced cooperation between countries because lack of enforcement can be attributed to the cross-jurisdictional character of e-business. It also acknowledges that it is now more important than ever to let customers know about their protection and risks of transacting online. Sharma and Roy (2020) noted that raising customer awareness about these products is essential, especially in such countries as India where digital literacy is still a problem. So the authors also call for enhanced collaboration between consumer organisations, e-commerce trading companies and relevant regulatory organisations in a view to develop better CO conformity.

Because of the complexity of the internet market, there is a vast amount of literature on e-commerce and consumer protection. This literature presents a diverse range of topics. Though regulatory frameworks in nations such as India have come a long way in tackling some of the issues, ongoing evolution is still necessary to stay up with global trends and technology breakthroughs. Prospective research need to concentrate on incorporating nascent technology into consumer safeguarding tactics and guaranteeing that regulatory methodologies are comprehensive, considering the worldwide aspect of electronic commerce and the diverse hazards it presents to consumers. Previous research' analyses (Mayer et al., 1995; Cazier, 2007; Helge et al., 2020) reveal the following dimensions of the ABI model:

Table 1: ABI Model

S. No.	Dimensions	Descriptions
1.	Ability	 Vendors' ability to influence and approve certain domain-level services for consumers. The components consist of data protection, privacy, and security, as well as preparedness, as well as technological expertise and solutions for essential services.
2.	Benevolence	 Client loyalty stems from a caring attitude. Attention, empathy, belief, and acceptance are the components that make up the group.
3.	Integrity	 Ensuring compliance with legislation, transparency, and consistent behaviour among sellers in business operations. Elements include equality, satisfaction, allegiance, fairness, and reliability.

Research Gap for the Study

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The literature that is currently available on e-commerce consumer protection points out a number of important topics that need more research. Incorporating emerging technology, such as blockchain and artificial intelligence, into current operations (AI), in real-world contexts to improve consumer protection has received little attention. Scarcity of research has also been reflected likewise in rules governing cross border electronic commerce particularly in so far as collaboration and legislation harmonisation is concerned. Another lacking in consumer awareness and digital literacy is seen, even more pronounced in rural and semi urban regions where research is scarce on necessary action that can reduce the risks associated with online purchasing.

While there is much literature on data privacy, studies on which data protection laws are implemented or how efficient they are in electronic commerce environments are scarce. In addition, the reasons for the necessity of developing more adaptable and prospective strategies are obvious since the existing legislation can barely follow the pace of the fast advances in technology, including big data analysis and individualized AI-based purchasing. Last but not the least, the literature gap includes the effectiveness of complaint handling mechanisms of consumers and the role played by SMEs. All these gaps emphasize the need for further detailed research on shifts in consumers' attitudes and behaviours, especially as they relate to regulatory requirements and contexts, as well as in e-commerce.

Research Objectives

- > To identify the key challenges faced by consumers in the e-commerce environment
- > To evaluate the effectiveness of existing regulatory frameworks for consumer protection in e-commerce
- > To assess the role of emerging technologies, such as AI and blockchain, in enhancing consumer protection
- > To analyze the effectiveness of grievance redressal mechanisms provided by e-commerce platforms
- > To assess consumer awareness and digital literacy in the context of e-commerce risks and protections

Research Methodology

In order to blend qualitative and quantitative methodologies, this study will adopt a mixedmethods research design. The qualitative aspect will investigate regulatory frameworks, consumer protection mechanisms, and future technologies, whilst the quantitative aspect will assess the efficacy of current regulations and examine consumer experiences. To collect

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quantitative data on the experiences, obstacles encountered, knowledge of consumer rights, and contentment with existing safeguards, structured questionnaires will be sent to a sample of online shoppers. There will be questions on a Likert scale as well as closed-ended ones included in the survey collection. To get information on the expansion of e-commerce on a worldwide and regional scale, regulatory frameworks, and consumer protection initiatives, a comprehensive examination of current academic papers, government reports, and industry publications will be carried out. Purposive sampling in conjunction with stratified random sampling will be employed. Aiming for a sample size of 150 customers, surveys will make sure there is enough statistical power for quantitative analysis. Descriptive statistics will be used to analyse survey data in order to compile an overview of consumer experiences, perceptions, and difficulties with e-commerce. Additionally, content analysis will be performed on the qualitative data to evaluate any emergent themes about regulatory gaps and best practices in consumer protection.

Limitations of the Study

The study will concentrate on customers from various locations in India; however, while cross-border e-commerce will be covered by interviews and secondary data, the depth of primary data on global regulatory difficulties may be restricted. Customers may overestimate or underestimate their awareness of consumer rights and rules, which could lead to answer bias in surveys. A clear and objective questioning strategy will be employed to try to lessen this.

Further Scope of the Study

In later studies, it is possible that the deployment of cutting-edge technology, such as blockchain, artificial intelligence (AI), and machine learning (ML), to safeguard consumer rights will be the focus of in-depth research. This study will discuss these technologies; however, more research might look into particular case studies of platforms that use blockchain to track product authenticity or artificial intelligence (AI) for fraud detection. This could evaluate how these technologies protect the consumers with regards to cost, as well as how they grow scalability, and efficiency. It is a necessity to continue the investigation on the topics related to cross-border consumer protection as international 'e-business' develops. Later empirical research studies could focus on the managerial and legal challenges concerned with the harmonisation of consumer protection laws across different legal systems. Research could specifically focus on how organisations such as the European Union for example or international agreements within the WTO framework in regard to cross-border e-Commerce and data protection.

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Need for Online Consumer Protection

With the era of e-commerce booming, the evolution has made consumers have more access and wide ranges of choices. However, due to the increase in threats and challenges posed by this change, strong customer protection mechanisms are need in an online environment. The main justifications for the importance of online consumer protection are outlined below:

Fraudulent Activities: The customer is vulnerable to acts of fraud for example in online scams like phishing or identity theft or receiving bad products like counterfeit goods. Thus, there must be efficient safeguard approaches to prevent and prevent such actions.

Data Privacy and Security: While transacting in cyberspace, the customers reveal information about their financial and personal lives. The risks of financial losses are tangible, and personal data breaches may occur when the unauthorized access is made to an individual's data. For the safety of unique and personal data and to ensure that privacy laws in the consumption process are complied with, consumer protection is needed.

Misleading Advertisements and Product Information: Misleading activities, including misleading product advertisement or inadequate information, commonly pose a problem in ecommerce. Consumer protection committees help to prevent misleading descriptions of certain products and to help consumers make better purchase decisions.

Cross-border E-commerce Challenges: Because e-commerce is an international business, buyers and sellers often have access to more than one legal jurisdiction in which to operate, making issues of returns, refunds and disputes complex. To keep responsibility and let global transactions occur, more elaborate consumer protection measures and improved international links are needed.

Grievance Redressal: Customers may have an issue in solving matters of substandard goods, long delivery time, or receiving back their cash when they seldom or never physically deal with the sellers. Thus, the online consumer protection policies are needed to preserve consumers' rights and ensure their equal treatment: the regulation should have clear provisions of the grievance procedure.

Trust and Confidence: Commitment to the growth of a strong structure of consumers' protection stimulates a greater level of confidence between the purchasers and the venders, hence, more people are likely to patronize the online shopping. Sustaining the Trust of Customer in online purchasing is a major factor toward the growth of e-commerce.

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Instruments for Online Consumer Protection

To guarantee consumer protection in the digital economy, a number of instruments and legal frameworks are employed. The purpose of these instruments is to safeguard the rights of consumers, enhance transparency, and reduce the risks associated with doing business via the internet. Instruments of significant importance include:

Data Protection Regulations: The customer personal information is to a great extent safeguarded by the legal systems such as GDPR within the EU and the IDPDP bill within India. These laws set steep penalties for non-implementation, require e-commerce platforms to treat consumers' data with care, and provide that consumers must give their data use consent knowingly.

Consumer Protection Laws and E-commerce Rules: Laws governing platforms for e-commerce are offered by Consumer Protection (E-commerce) Rules, 2020 in India as well as other laws around the globe. It means that those regulations set general provisions for the labelling of product authenticity, returns policy and –price. These regulations ensure that platforms provide accurate information and protect customers from such scams.

Grievance Redressal Mechanisms: Consumers use online dispute resolution (ODR) systems, the grievance portals and specially-tailored customer complaint handling platforms for this. The provisions that are critical in ensuring customer satisfaction has been put in place include; The following government redressal systems: The following internal e-commerce platforms dispute mechanisms:

Digital Authentication Tools: Electronic means, secure payment facilities like the SSL protected payment systems, and two-factor authentication (2FA) are necessities when securing customer information during payment procedures and also when protecting online transactions. These tools enhance protection of the financial data and the risk of invasion is eliminated.

Artificial Intelligence (AI) and Machine Learning (ML): In short, using AI and ML to analyse transaction sequences or anomalies, user/behavior or possible threats can make fraud detection real-time. These technologies help with suspect transaction detection and decreasing fraud and counterfeits issues.

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Blockchain Technology:

The generation of multiple ledger transactions through the use of Blockchain can be applied to trace the supply chain and assure the validity of the products, and thereby reducing the occurrence of imitation products in online sale. This makes customers to develop confidence in dealing with online stores since accountability and traceability is provided.

Product Reviews and Ratings Systems: Online rating and feedback forms are used on e-shops to allow the buyer to share their impressions about products and services. These systems work as self-policed systems and safeguard materials quality and in addition, enable the buyer to make a wise, informed purchase.

Legal Instruments for Cross-Border Transactions: Cross border contract electronic commerce laws can be solely drawn from international trade frameworks and contracts influenced by WTO agreements. These frameworks ensure the enforcement of legal measures protecting consumers from across the globe and help to handle other conflicts arising due to differing jurisdiction and authority.

Cybersecurity Measures: In order to reduce exposure of customer information to hackers, vicious cyber attacks as well as data theft, e-commerce industries have to ensure secure server platform, encryption tools and security infrastructure audits. Strategic measures when it comes to cybersecurity ensure that the customers enjoy a more secure shopping experience.

Consumer Awareness Programs: In efforts to increase awareness of the currently trending cyber crimes, how to shop safely online, and the rights of consumers in the virtual market place, governments, consumer organizations and e-commerce companies use enforcement campaigns and tools. The rise in the extent of consumers' knowledge allows them to make less risky choices regarding purchases in cyberspace.

Redressal Mechanism System for E-Commerce Transactions

State law and the Corrective Action System describe how consumer complaints will be addressed in §§ 28–73. Since the new Act has been repealed, the District Consumer Dispute Redressal Forum has been renamed the District Consumer Dispute Redressal Commission. This change is in accordance with the new Act. For complaint filings, the financial jurisdiction in the consumer courts has been brought at district, state and national levels. The following diagrammatic representation in figure 3 shows the kind of judicial mechanism of deriving solution to disputes.

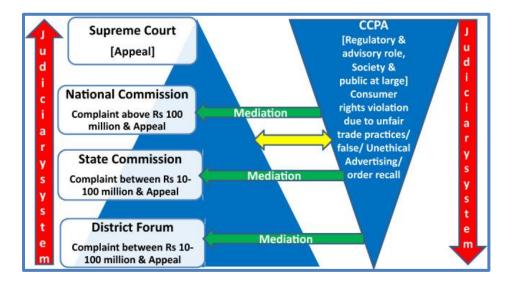
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Figure 3: Court System for Conflict Resolution



The Act of 2019 provides a method for resolving disputes through mediation in the case that a settlement is reached at the time the complaint is accepted or later on by mutual consent (Sec. 37). Every municipality, state, national commission, and regional court would be required to establish a mediation cell in order to speed up the settlement process. The Act contains sections 74 through 81 that detail the full process in its entirety. Because the verdict of the Mediation cannot be challenged, as indicated in Section 81(1), the first part of the redress procedure will progress more rapidly, which will be to the advantage of both the entities that provide services and the individuals who receive them.

Data Analysis & Interpretation

The male to female ratio in the main study is roughly 2:1, and the average age falls between 20 and 62 years old. 19% of respondents were students, while 71% were working professionals. Even though every responder knew how to use a computer, tablet, or smartphone, 96% of them had made at least five online purchases in the previous seven months, from January to July 2020. With 68% of respondents, the PC is still the preferred device for online shopping. Online purchase selections were influenced by shipping convenience, quality reviews, and cash on delivery pricing. Although they were hesitant to shop online, almost 61% of them acknowledged that COVID-19 had an effect on their online buying habits and encouraged online transactions. The primary complaints were overpriced, low-quality goods, returns of damaged goods, and a backlog of payments that were made in error or in excess.

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Table 2: Statistical Analysis of E-Commerce Transactions

Factors	Monthly	Twice in a Month	>Twice in a Month	P Value (Significance Level 5%)
Security Secure and reliable payment methods are used. specifics regarding the operation of security systems. You can pay with a debit or credit card or with cash on delivery.	4.81	4.76	4.72	0.003
Privacy How personal information you divulge throughout the ordering process is handled. The company's website prominently displays the policy for managing personal information.	4.88	4.84	.79	0.09
Warranty/Guarantee Customary conditions paired with the order form (return, refund, etc. terms); order and purchase coordination/tracking	4.85	4.82	4.79	0.029
Customer Services and Grievance Redressal System The ability to use chatboot or online to ask questions and get immediate help; Comments, assessment, and rating on the experience	4.84	4.89	4.78	0.027
Website & Information Design and functionality: the appearance, usability, and ease of navigation of the website: details about the business and its goods, Evaluations	3.49	3.61	3.54	0.035
N (215/%)	105/48.84%	74/34.41%	36/16.74%	

91% of respondents said that a dependable and secure system is essential when it comes to their trust in online shopping. For roughly the same amount of people, understanding how e-business organisations function and provide security solutions was crucial. Among the available payment methods, 81% of participants selected "cash on delivery-online transfer at the doorstep." 57% of internet users expressed concern about the privacy of the personal information they supply. Customer service (74%) and warranty and guarantee (71%) were found to be crucial for building trust with e-entities. 81% of respondents said that information on websites, such as user friendliness and simplicity of navigation, as well as reviews, was either major or extremely

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essential. This increased their confidence in making online purchases. According to 91% of respondents, building trust in the product, the manufacturer, and the e-commerce company required providing information about the product's features and supplier/manufacturer. In addition to the aforementioned ABI model, it is assumed that characteristics of website information, customer service, warranty/guarantee, security, and privacy all positively affect e-commerce customer trust.

The analysis by Multiple regression shows that the security, privacy, warranty, customer service, the information on the website are the independently influential factors with P – value being less than 5%. Moreover, also the hypothesis that all these factors combine to determine the trust of ecustomers in e-commerce is also validated by the overall p- value of 0.032 and the R-square of 0.82.

Managerial Implications of the Study

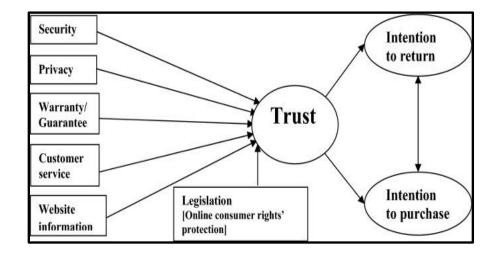
In particular, the findings of the investigation into the role that security and credibility, warranty/guarantee, confidentiality, customer relations, and web information play in establishing the trust of e-commerce customers lend support to the concept of the ABI model that was discussed in the preceding sections (Mayer et al., 1995; Cazier, 2007; Helge et al., 2020). The findings for the present analysis show an R2-value of about 0.84 meaning that there are other variables that impact on trust. Such a factor could tend to how well the existing new Act and Rules serve the interest of online consumer. Using the new regulations to evaluate their impact will be possible only when the organisation has at least a two-year track record of operation. The 2019 Act seems fairly equipped to safeguard the rights and interests of the online consumers and the provisions under the Consumer Protection (E-Commerce) Rules, 2020 are as follows, which is poised to bring support to the nation's economy.

The aspects that cause a direct effect on consumers' trust in an internet site are web credibility, privacy and security issues, nature of the content, and the image of the e-commerce firm (Kim et al., 2008). Trust is basic to online consumer decision making; serving as the basis for the use of a social cognitive model on consumer privacy behavior, as well as the introduction of privacy alerts by Larose and Rifon (2007) as one of self regulation components. In addition, violation of trust and data privacy affects the market price of a firm (Tripathi & Mukhopadhyay, 2020) and holds relevance in the modern world. In the case that the three hypotheses were true, Figure 3 shows the diagrammatic model that indicates how consumer trust in e-commerce transactions affects decision making.

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Figure 3: Model for Consumers' Trust



Conclusions

Unquestionably, the explosive rise of e-commerce has changed consumer markets by offering never-before-seen convenience and accessibility to a vast array of goods. Strong consumer protection measures are necessary, though, as this shift has brought about serious issues. The purpose of this research was to investigate the most significant problems that consumers face in the e-commerce industry. These problems include fraudulent activities, breaches of data privacy, counterfeit items, and poor grievance processes. It also looked at the existing regulatory frameworks for regulations and observed their effectiveness in enhancing consumers' rights.

It thus obtained that despite the progressively improvement of the provisions for consumer rights and the transparency agenda through various regulations such as the Consumer Protection (Ecommerce) Rules, 2020, the enforcement deficit has persisted, particularly in cross-border transaction and data protection. Even though the use of emergent technologies like; the blockchain and artificial intelligence is still ameliorated, they have the capability to enhancing consumer protection. To improve the three facets of safe data processing, product identity and to check on fraud, more funding is needed by such technologies. The survey also highlighted how important it is to increase consumers awareness and to increase the digital literacy level, especially in emergent countries where the usage of e-commerce is rapidly growing. Therefore, creating the level of trust and increasing consumers' confidence it is essential guarantee that consumers know, their rights and dangers, which exist when buying products online.

Thereby, it is stated that there is always a considerable need to adapt the regulatory framework on a continuous basis so as to cope up with the emerging characteristics of e-commerce business

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models. The further improvements in the formation of a safer and more transparent Internet market should focus on increasing the efficiency of cooperation with foreign counterparts, Hiệp improving the effectiveness of the implementation of current norms, and the application of new technologies. Stakeholders in the policy making arena may work together to ensure that the consumer is well shielded in the evolving digital markets environment through addressing these problems.

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