

# **Ethics of Technology in Viksit Bharat: A Philosophical Analysis on Innovation Equilibrium**

**Ekta Saini**

## **Abstract**

The application of moral principles to technological issues is known as technology ethics. Technology ethics are becoming essential because new technologies give us more freedom to act, which forces us to make decisions we didn't have to make in the past. It took into account several factors, including data privacy, security, equity, and the effects of technology on the environment and society. Viksit Bharat which is also known as Developed India, refers to several objectives and plans that take into account the growth of technology for all residents. It is becoming apparent that the technology sector needs to be one of the main areas of attention for realizing the Viksit Bharat goal. Following the pandemic, the economy has refocused on digital infrastructure and green industries. As the world now requires humans to be cognizant of sustainable development, Indian enterprises need to work towards producing technology focused on the future and specifically produced technological products.

The research paper aims to explore the technological ethical consideration in Viksit Bharat through a philosophical lens and analyze the underlying principles and ideologies that contribute to the development and progress of a nation as Innovation is a driving force in developing our nation.

**Keywords:** Ethical Technology, Data privacy, Developing India, Philosophical Ideologies

## **1. Introduction**

In this paper, I examine the ethical technological considerations in Viksit Bharat and expound on different ethical points of view. This paper discusses about the balancing appeal of how technology and morality are driven by ethics and moral consideration presiding over the development of Vikshit Bharat. An increasing area of technology ethics has focused on Viksit Bharat in recent years due to Viksit Bharat's moving technological advancements and the many ethical questions they raise. Since the ethical matters concerning technology surpass the barriers of one jurisdiction, it is important to examine the applications of technological prejudices to Viksit Bharat. Advancements in technology have had a profound impact on society, transforming various aspects of human life.

## **Ethical Technologies in Viksit Bharat**

In Viksit Bharat, technological developments have completely changed several societal aspects. But in order to guarantee that technology is used sensibly and for the good of all people and societies, ethical concerns are necessary in light of these breakthroughs. In Viksit Bharat, it is crucial for leaders, legislators,

and technologists to actively participate in discussions about the ethical and social implications of technology to address concerns about accessibility, privacy, data security, and justice. Furthermore, everyone involved must place a high priority on safeguarding fundamental human rights as technology develops and shapes society. Frameworks like Design for Values and Value Sensitive Design, which encourage open and transparent procedures that include society stakeholders in the decision-making process, might help achieve this. Furthermore, acknowledging potential disruptions to the labor market, biases in technology, and the significance of closing the digital gap to provide equitable access to opportunities and technology are all important components of technical ethics in Viksit Bharat. To fulfill these objectives, Viksit Bharat must make significant investments in ongoing professional development and foster a thorough comprehension of pedagogical best practices to guarantee the ethical and efficient use of technology in the classroom.

### **Technological Progress and Ethical Responsibility**

In the modern era, Technology plays a crucial role in our daily lives, impacting how we work, live, and communicate with one another. In analyzing the ethical implications of technology within the framework of Viksit Bharat, it is crucial to examine the fine line that separates innovation from ethical considerations. Within the context of Viksit Bharat, this philosophical analysis seeks to analyze the balance between ethical obligations and technical growth, providing insights into the moral ramifications of technological innovation and its effects on national development. It is becoming evident that these technological developments are consequential to people's fundamental human rights.

These advancements have led to significant ethical considerations in the context of Viksit Bharat, as technology plays a crucial role in achieving the country's development goals and ensuring that the benefits of technology are accessible to all. Furthermore, the ethical dimensions of technology in Viksit Bharat extend beyond mere accessibility. They encompass issues such as data privacy, security, equity, and the impact of technology on the environment and society. In light of these ethical considerations, it is imperative to carefully analyze and evaluate the impact of technology on Viksit Bharat and its inhabitants. This analysis should involve not only policymakers and leaders but also educators, computer professionals, and all individuals involved in shaping the technological landscape of Viksit Bharat. It is essential to bridge the gap between abstract value language and design requirements by engaging societal stakeholders in a structured, inclusive, and transparent process. This process should prioritize the perspectives of traditionally marginalized and under-served groups, ensuring that their experiences and concerns are heard and taken into account. Ethicists need to move beyond philosophical debates and actively engage with the practical implementation of ethical considerations in technology. Only through this holistic and collaborative approach can we achieve an innovation equilibrium that aligns technological advancements with the values and objectives of Viksit Bharat. To ensure responsible and ethical use of technology in Viksit Bharat, it is necessary for all stakeholders to prioritize the safeguarding of privacy and data, uphold ethical standards, and promote data security. Additionally, there needs to be a focus on continuous professional development and pedagogical best practices when integrating technology into education. This comprehensive approach to technology ethics in Viksit Bharat will require ongoing collaboration and a deep understanding of the potential social, environmental, and ethical impacts of technology. In order to address the ethical considerations raised by technology in Viksit Bharat,

policymakers, leaders, educators, and computer professionals must come together and actively engage in discussions and decision-making processes regarding the ethical use of technology.

### **Comparing Technological Advancements in the Late 1900s and the Early 2020s**

The late 1900s and the early 2020s have witnessed significant advancements in technology. In the late 1900s, technological advancements such as the development of satellites and space exploration, the introduction of personal computers, and the creation of the internet revolutionized the way we live and communicate. These advancements paved the way for groundbreaking inventions like the Apollo Moon landing and the birth of the digital age. In the early 2020s, technology has continued to progress at an unprecedented rate. We now have advanced artificial intelligence, virtual reality, and nanotechnology. These advancements have revolutionized various sectors, including healthcare, transportation, and communication. They have also brought about the rise of social media, online education, and remote work. Furthermore, the early 2020s have seen remarkable advancements in medical technology and healthcare. For example, the development of gene-editing tools like CRISPR has opened up new possibilities for treating genetic diseases. In addition, advancements in robotics and automation have transformed industries such as manufacturing and agriculture, leading to increased efficiency and productivity. Moreover, the rapid adoption of renewable energy sources and the increasing focus on sustainability have been major technological advancements in the early 2020s. These advancements have contributed to combating climate change and addressing environmental issues. Furthermore, the early 2020s have also seen major advancements in data analytics and artificial intelligence. These advancements have revolutionized industries like finance, marketing, and logistics by enabling companies to gather and analyze vast amounts of data to make informed decisions.

Every element of human existence, including communication, transportation, healthcare, and entertainment, has undergone tremendous transformation as a result of technological breakthroughs. India's technological progress in the late 1900s was marked by the introduction of radio transmission and landline phones, among other telecommunications technologies.

### **Balancing Data Privacy and Innovation in the Digital Age**

Concerns over data privacy and the possible exploitation of personal information have grown as a result of the quick digitalization of services and increased dependence on technology. As services become more digitally connected, worries about data privacy and the exploitation of personal data are critical. It is very difficult to strike a balance between the need for data to spur innovation and the defense of individual privacy rights. To guarantee that personal information is protected against unauthorized access and misuse, one option to solve this issue is to install strong data protection measures, such as strong encryption and access restrictions. Organizations can also take the strategy known as "privacy-by-design," which entails incorporating privacy issues from the beginning into the design and execution of their services and products. This involves using technologies that improve privacy, carrying out evaluations of the privacy impact, and giving people access to and control over their personal information. Moreover, striking the correct balance between innovation and data protection requires a multi-stakeholder approach. Governments, corporations, and private citizens must work together to create and implement comprehensive data protection rules and regulations. Furthermore, to combat the ongoing evolution of

cyber threats, organizations should place a high priority on continuous upgrades and security measures. In certain cases, these service providers can be based in nations with distinct data protection regulations, which could make it challenging for businesses to ensure the security of their customers' data across legal boundaries. To address these challenges, a range of possible resolutions might be investigated, such as consistent security measure upgrades, efficient data encryption, multi-factor authentication, and finally privacy by design. Giving users control over personal data and transparency a priority is another possible option. This may be accomplished by giving people the ability to modify their preferences for data sharing, as well as by establishing clear and simple permission procedures and privacy rules. Furthermore, by raising data literacy and disseminating clear information about the possible advantages and disadvantages of data sharing, people should be given the capacity to make educated decisions about sharing their data. To solve data privacy issues and promote innovation, the dynamic digital environment necessitates taking proactive steps. Prioritizing the deployment of strong data security measures, such as encryption and access restrictions, is vital for organizations to reduce the likelihood of personal information being misused or accessed without authorization. Maintaining data privacy standards may be greatly aided by adopting a privacy-by-design strategy, which comprises incorporating privacy issues into the design of products and services.

Furthermore, developing thorough data protection rules and regulations requires the cooperation of several parties, including corporations, governments, and private citizens. To promote a collaborative effort to achieve the ideal balance between data privacy and innovation, a multi-stakeholder strategy is needed. Additionally, to protect data integrity across many countries, organizations need to be attentive in the face of constantly developing cyber threats by implementing frequent upgrades and security measures. Prospective remedies like multi-factor authentication, efficient data encryption, and openness in data-sharing procedures can strengthen data privacy initiatives going the future. It is essential to empower people with enhanced data literacy and knowledgeable decision-making skills to promote a culture of responsible data sharing. We can traverse the digital world while fulfilling data privacy rules and advancing innovation by adopting a multifaceted approach that incorporates technological, legislative, and educational measures.

## **Ethical Consideration in Innovation and Societal Well-being**

Viksit Bharat's quick technological progression requires a strong ethical framework that governs the development and implementation of new technologies. The analysis of the effects of technological advancements on individuals, communities, and the environment is at the core of this framework. Concerns about social justice, equality, privacy, and the maintenance of human dignity are all included in the category of ethical considerations. As Viksit Bharat promotes innovation, it is critical to ask thoughtful queries regarding the advantages and disadvantages of emerging technology. For example, it's important to take into account if applying AI and machine learning algorithms to decision-making processes reinforces preexisting prejudices or discriminates against certain social groups.

Technological innovation can enhance productivity, efficiency, and quality of life in Viksit Bharat; however, an equilibrium that safeguards the interests of all people needs to be achieved. The greater benefit of society and ethical values ought not to be sacrificed in the name of technical development. Regulations must be in place to guarantee that ethical concerns are included in the design and

implementation of technologies, and innovators and technology businesses must be held responsible for the ethical consequences of their inventions.

### **Government regulation in managing Technological Ethics**

Government regulation, that establishes the moral and legal framework that technology must function inside, is essential to controlling technology ethics. Regulations are intended to make sure that technology development advances society and the public good rather than harming people. In response to new technology, the government is taking several actions, including developing norms and regulations that specify moral behavior in the creation and application of technology and establishing rights protections like freedom of speech and privacy. Government regulation is essential for striking a balance between the necessity to uphold moral standards and safeguard society's values and the quick speed at which technology is developing.

### **Ethical Leadership and Governance in Technological Innovation**

In Viksit Bharat, ethical leadership and governance are crucial for managing the ethical complexities involved in technological innovation. Leaders in both the public and private sectors have a responsibility to uphold ethical standards and promote transparency in decision-making processes. By doing so, they can navigate the potential ethical pitfalls of technological advancements while ensuring responsible and sustainable innovation. This can be achieved by fostering a culture of ethical awareness and accountability, where leaders prioritize the well-being of all individuals and the preservation of the natural environment.

### **Conclusion**

In conclusion, the ethics of technology in Viksit Bharat is a complex and multifaceted issue that requires a subtle philosophical analysis to achieve innovation equilibrium. The ethical considerations surrounding technology in Viksit Bharat are multifaceted and demand thoughtful analysis and action. Achieving an innovation equilibrium requires a concerted effort from all stakeholders to prioritize ethical values and ensure that technological advancements align with the overarching goal of enhancing human well-being and societal harmony. Through ethical leadership, robust ethical frameworks, and continuous dialogue, Viksit Bharat can harness the transformative power of technology while upholding ethical principles. In Viksit Bharat, the rise and development of technology have resulted in several innovations and chances for social growth. But it also brings up significant ethical issues that need to be resolved to use technology responsibly and sustainably. These ethical issues cover a wide range of topics, including cybersecurity, data rights, privacy, and the effects on the environment and human welfare. Furthermore, rather than sustaining inequalitarian structures, the introduction of new technology in Viksit Bharat should place a higher priority on the emancipation and empowerment of people and communities.

### **Author's Biography**

Ekta Saini is currently an M.A. Philosophy student in the Department of Philosophy at the University of Delhi. She has a keen interest in Ethics, meta-ethics, Philosophy of Language, Artificial Intelligence, and Logic.

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