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Cyborgs and Society: Rethinking the Identity of Humans and Machines

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ABSTRACT:

This paper examines Donna Haraway's idea of the cyborg, which she explains in her book "*Simians, Cyborgs, and Women: The Reinvention of Nature*", 1991. The concept challenges traditional ideas about gender, nature, and technology by blurring the lines between man and woman, human and machine, and nature and culture. Haraway's theory offers a more flexible and mixed understanding of identity, going beyond rigid categories. The paper explores how the cyborg metaphor applies to today's world, particularly with examples like digital feminism, prosthetics, artificial intelligence (AI), and social media. These examples show how Haraway's ideas affect women, gender roles, and society as a whole. The paper also discusses some challenges and critiques of the cyborg theory, questioning whether it can be relevant to rural or non-technological societies. Finally, the paper argues that cyborg thinking helps us rethink gender and identity, offering a way to build more inclusive and ethical technology. By focusing on fluidity and diversity in identity, the cyborg idea can help create a more equal and connected future for everyone¹.

Keywords: Cyborg, Gender, Identity, Technology, Feminism, AI, Ethics, Social Media, Posthuman.

Introduction:

Haraway is a renowned feminist scholar and thinker, best known for her work on science, technology, and gender. She is most famous for "*A Cyborg Manifesto*" (1985), believes that the concept of the cyborg (a mix of human and machine) offers a way to move beyond binary thinking such as male/female, nature/technology. Her work continues to have a significant impact on feminist theory and science fiction today (Haraway, 1991).

Haraway's "*A Cyborg Manifesto*" is an influential work that traditional ideas about identity, gender, and the relationship between humans and technology. Written in the late 20th century, Haraway introduces the concept of the cyborg- a hybrid of machine and human- not just as a science fiction figure, but as a real symbol of modern life. In today's world, where people are constantly interacting with machines, the idea of the cyborg helps us to understand how technology shapes who we are. She uses the cyborg to question fixed categories like male/female, human/animal, and natural/artificial. She argues that these boundaries are becoming less clear, and this opens up new ways of thinking about society, politics, and feminism. Her work connects science, technology, and socialist-feminism, suggesting that women and other marginalized groups can use technology as a tool for freedom and resistance. In the past, machines were seen as tools (Haraway, 1991). But now, machines are more advanced. They can think, learn, and even act like humans. At the same time, humans are becoming more connected to machines through mobile phones, computers, and the internet. This mix creates a new kind of life- one that does not fit into old categories like man vs. woman, human vs. animal, or nature vs. machine.

Today, it's hard to describe any woman using just one identity or label (like "woman", "Black", "working-class", etc.). Women are not all the same- each woman has a different life experience based on things like race, class, gender, culture, and more. Earlier, many feminists believed that just being "female" was enough to unite all women, but now we know that's not true. There is no one single way of "being a woman." The idea of a natural or fixed identity no longer works. Instead of trying to create unity by making everyone the same, the author suggests that we should come together through shared goals and values, not through shared identity (Butler, 1990). This is called affinity- a kind of connection based on choice, not biology. The author warns against trying to force all feminists into fixed categories like "liberal", "radical", or "socialist", because that leaves out many other voices. Instead, she supports building flexible, open, and respectful coalitions- working together without trying to erase differences. Furthermore, Haraway talks about the shift from industrial to information-based society, where old ideas about gender, race, and identity are breaking down. In this new world, everything is connected and flexible, not fixed (Butler, 1990). Haraway uses the concept of "cyborgs" (half-human, half-machine beings) to symbolize these new identities that aren't tied to old, natural categories. In this new world, identity is more fluid and based on systems and connections.

¹ All page references are to the version of '*A Cyborg Manifesto*' in Haraway, 1985

The Evolution of Work in the Age of Technology:

The modern science and technology, especially biology and communication, are changing the way we understand the world. In the past, we saw organisms as biological objects, but now, with genetics and biotechnology, we see them as systems of information that process data, almost like machines. New technologies like microelectronics are blurring the lines between machines and living beings, and even the human mind and body are becoming closely connected to these tools. These changes affect work, especially for women (Wajcman, 2004). With new technologies, many jobs are becoming more flexible but also more insecure, often leading to women taking on low-paid or vulnerable roles in industries like electronics. This is part of what is called the "homework economy," where work is increasingly informal and precarious. Women, especially in poorer areas, are bearing the burden of supporting families as stable jobs become less common. The text also points out that these changes are not just about technology, but also about power. The rise of high-tech industries is reshaping global labour markets, deepening inequalities based on gender, race, and class, and impacting how society views family, work, and reproduction (Wajcman, 2004).

Women's roles in advanced industrial societies have been reshaped by science and technology. She criticizes the old idea of separating women's lives into public and private spheres, such as factory vs. home or market vs. family. Haraway argues that this outdated view doesn't reflect the reality of women's lives today, where these spheres overlap and influence each other (Hayles, 1999). She suggests a "network" approach to understanding women's positions in society, where multiple spaces and identities are interconnected, and boundaries are less clear. Women's roles are shaped in various social locations like home, market, work, state, school, clinics, and churches. These locations are influenced by technology, leading to new forms of relationships and identities. For example, women-headed households, home-based businesses, and telecommuting are becoming more common, while women are increasingly targeted as consumers in the market. In the workplace, although gender and racial divisions persist, more women, including women of colour, are entering high-status jobs, especially in high-tech fields (Hayles, 1999).

Haraway shifts to the idea of cyborgs, which are beings that are a mix of human and machine. She sees cyborgs as a metaphor for how women of colour, who often exist on the margins of society, can create new forms of identity that break traditional norms. In this sense, writing and language become tools for survival and resistance. Haraway challenges the traditional ideas of perfect communication or a single "original" language, which are often used to maintain control and dominance in Western culture. She argues that cyborgs, in rejecting traditional ideas of purity, create new, complex identities. They blur the lines between nature and technology, and in doing so, they challenge the power structures that seek to define and control people (Stone, 1995). Haraway's message is that women of colour, through their unique experiences and identities, can rewrite the rules and transform the way we think about gender, technology, and power. This is also reflected in feminist science fiction, where cyborg characters challenge the usual stories of innocence, autonomy, and morality. Finally, Haraway says that cyborgs represent regeneration, not the traditional idea of birth and reproduction. They offer a new way to think about the future, without strict gender roles. Cyborgs show us a future where we can break free from old rules and think differently about science, technology, and society (Stone, 1995).

Cyborg Identities in India

In a country like India, marked by deep-rooted social hierarchies and rapid technological expansion, the relationship between women, work, and technology is undergoing a significant transformation. While discourses of "Digital India" and technological advancement dominate urban spaces, the lived realities of rural and marginalized women reflect a different story. With the rise of telecommuting, informal labour, and gig economies, women's work has become more flexible- but also more precarious and poorly paid. In sectors like garment production, food processing, and electronics assembly, countless women work from home under exploitative conditions. This is part of what scholars call the "homework economy," where domestic labour is informally linked to global markets. In these contexts, women carry the dual burden of household care and economic survival, especially as secure and formal employment becomes increasingly rare (Patel, 2010). At the same time, technology is reshaping how women engage with institutions like education, health, and the market. From running small businesses on social media to accessing online education and digital banking, Indian women are navigating new socio-technical landscapes. Haraway's idea of the cyborg- a hybrid of human and machine- takes on unique meaning in India. A Dalit woman using mobile apps to fight for her rights, or a tribal girl overcoming geographical and social barriers through online learning, embodies this cyborg spirit. These women are not passive recipients of technology but active agents who redefine identity, labour, and resistance. They disrupt traditional binaries- such as home/work, body/machine, and tradition/modernity- and in doing so, point towards new possibilities (Patel, 2010). In the Indian context, the cyborg is not just a metaphor; it becomes a lived reality- where struggles against caste, patriarchy, and poverty are reimagined through digital tools and hybrid identities.

Theoretical Background:

Donna Haraway's concept of the cyborg presents a hybrid existence that blends both biological and technological elements, blurring the boundaries between humanity and machines. According to Haraway, a cyborg is neither fully human nor fully machine. It exists in an intermediate space, challenging traditional notions of gender, nature, and technology. From Haraway's perspective, society has traditionally categorized gender, identity, and technological progress into rigid divisions. The concept of the cyborg breaks these boundaries. It represents a form of existence that transcends conventional gender roles and humanistic definitions, questioning the dualistic ideas of man and machine, nature and culture, and female and male. Through a feminist lens, Haraway's cyborg idea argues that technological development challenges the rigid boundaries of gender. Women and men, through cyborg thinking, can step outside the prescribed roles and embrace new forms of identity. The cyborg symbolizes the breaking of gender norms and offers new possibilities

for understanding identity and power (Braidotti, 2013). From postmodern and socialist feminist viewpoints, the cyborg represents the potential of technology not just as a tool, but as a powerful agent for addressing issues of gender, race, and class. It offers a way to dismantle the traditional structures that limit marginalized groups, including women, by providing a more inclusive and fluid approach to identity and social roles.

Discussion:

The concept of the cyborg metaphor is incredibly relevant in modern society, where technology and humanity are increasingly intertwined. Haraway's cyborg challenges the binary oppositions that traditionally separate man from machine, nature from technology, and gender roles from societal expectations. In today's world, the lines between human capabilities and technological advancements are blurring more than ever before. We are witnessing the emergence of cyborg-like identities where human beings integrate advanced technology into their lives, not just as tools, but as extensions of themselves. One of the most prominent examples of the cyborg metaphor in modern society can be found in artificial intelligence (AI) and machine learning. AI systems, like Siri or Alexa, act as digital assistants, becoming integral parts of daily life. They amplify human abilities by organizing tasks, offering information, and even engaging in conversation (Haraway, 1991). These AI systems may not have human consciousness, but they demonstrate the seamless interaction between human desires and technological capabilities, much like a cyborg.

Similarly, social media exemplifies how technology has become a central aspect of human identity. Online identities, often curated through platforms like Instagram or Facebook, can be considered an extension of one's physical and emotional self. Social media users create digital representations of themselves, enhancing their social presence, and even performing identities that were previously limited by traditional gender roles. This allows for greater fluidity in how we define and present ourselves, especially when it comes to gender and sexual identities. The act of sharing, posting, and connecting online creates a new hybrid identity that is neither fully physical nor fully digital but a fusion of both. Prosthetics and bio-tech also provide concrete examples of the cyborg metaphor. Modern prosthetics, like bionic arms and legs, extend human physical capabilities beyond natural biological limits. These innovations not only restore lost function but enhance the quality of life, making the wearer more than just human in the conventional sense. Bio-tech advancements, including genetic engineering and biotechnology, further blur the line between human and machine, allowing for the potential to modify or enhance human traits, intelligence, or even extend life expectancy (Haraway, 1991). Digital feminism is one example where women use online platforms to challenge traditional gender norms, campaign for rights, and engage in activism. Social media platforms, as sites of resistance and empowerment, allow women to voice their concerns, share experiences, and build global movements- examples of digital feminism include the #MeToo movement and campaigns for reproductive rights (Cresswell, 2004).

Case Examples:

The cyborg metaphor is not merely a theoretical concept but one that is increasingly reflected in contemporary life, where technology and humanity converge in profound and transformative ways. Several real-life examples illustrate how the cyborg identity is manifested in various spheres of society, from health technologies to gender-neutral AI systems¹.

In today's digital age, social media influencers can be seen as living examples of cyborg-like identities. These individuals often curate their online presence, blending human personality with digital technologies. Their social media accounts are extensions of their lives, their thoughts, and their emotions, but filtered and enhanced through technology. Influencers often use editing software, filters, and apps to enhance their physical appearance and create content that resonates with their audience. Their online personas become so intricately woven with their real selves that the distinction between the two becomes almost indistinguishable. This blending of the self with the digital realm creates a hybrid identity that is both human and technologically augmented (Senft, 2013). They embody the cyborg concept by fusing their organic being with the digital world, creating a presence that extends beyond the physical.

In the field of health technology, prosthetic limbs and pacemakers are clear examples of how technology enhances human abilities and extends the limits of the human body. Prosthetic limbs, once simple and functional, have evolved into highly sophisticated devices that allow for a high degree of movement and control. For instance, bionic limbs, powered by artificial intelligence, allow users to perform delicate tasks such as writing, playing musical instruments, or even climbing stairs. These limbs, connected to the body via advanced sensors, not only restore lost functions but enhance them, enabling users to live fuller lives than they might have without them. Similarly, pacemakers are another example of how technology has become an inseparable part of human health. These small devices, implanted in the chest, regulate heartbeats and ensure that individuals with heart conditions can live normal, active lives (Senft, 2013). Just as prosthetics augment the body, pacemakers ensure that a crucial organ functions optimally. These devices are examples of how humans, through technological advancements, have become cyborgs, with artificial enhancements integrated directly into the body.

The realm of warfare and surveillance technologies provides a stark and sometimes troubling example of the cyborg metaphor. Modern warfare increasingly relies on drones, robotic soldiers, and cyber surveillance tools that blend human command with machine execution. For example, drone warfare, where human operators control unmanned aerial vehicles (UAVs) from thousands of miles away, creates a hybrid soldier: the human controller and the drone become a single entity in the act of war. The controller manipulates the drone as an extension of their own body, almost as if the drone were a part of them. Similarly, surveillance technologies, such as facial recognition and AI-driven monitoring systems, function in a similar way, blending human intelligence with machine capabilities to track and monitor populations (Haraway, 2003). These technologies highlight the potential of cyborg identities in military and security contexts, where the human operator's abilities are extended and enhanced through the use of machines, often with profound implications for privacy, autonomy, and the nature of human decision-making in conflict.

Another fascinating example of the cyborg metaphor in contemporary life is the development of gender-neutral AI systems. In the past, AI systems, including virtual assistants like Siri, Alexa, and Google Assistant, were designed with gendered voices, typically female, reflecting societal norms and expectations of gender roles. However, recent advancements in AI are challenging this norm, as companies are now developing gender-neutral AI systems. These systems are designed to avoid the reinforcing of binary gender norms by using neutral or even customizable voices. For instance, the Siri voice on Apple devices can now be set to a more gender-neutral tone, and various AI assistants now offer options for users to choose a voice they feel most comfortable with, irrespective of gender (Haraway, 2003). This shift represents a growing recognition of non-binary identities and the move toward a more inclusive digital experience. AI systems are becoming less about representing a traditional gendered identity and more about providing a space for individual expression and identity beyond the confines of the binary gender system.

These examples- ranging from the cyborg-like identities of social media influencers to prosthetic limbs and pacemakers enhancing human physical capabilities, to AI systems that transcend traditional gender boundaries- highlight how the cyborg metaphor is alive and well in contemporary life. Through these technologies, we are witnessing a profound integration of human and machine, blurring the lines between the twoⁱⁱ. As these advancements continue to shape society, they will undoubtedly offer new opportunities and challenges, redefining what it means to be human in the 21st century.

Challenges and Criticism of Haraway's Theory:

Donna Haraway's cyborg theory has inspired new ways of thinking about gender, identity, and technology, especially within feminist studies. However, her ideas have faced several critiques. One of the main criticisms is that her writing is very complex and full of difficult theoretical terms. This makes her work hard to understand for people who are not part of academic or feminist circles. As a result, her theory often feels distant from the lived experiences of common peopleⁱⁱⁱ. Another important critique is that Haraway's concept is deeply rooted in the experiences of Western, urban, and technologically advanced societies. In rural or less developed regions-like many parts of India- the everyday use of technology is limited. In such places, traditional social roles are still strong, and the cyborg metaphor may not feel relevant or useful. Critics also argue that while the cyborg challenges binary ideas of gender, it may not fully address other important factors like class, caste, culture, or economic struggles. These play a big role in shaping gender identities in non-Western societies (Roden, 2018). Still, Haraway's metaphor can be adapted. If viewed as a symbol of hybrid identity and resistance, it can speak to people beyond tech-driven spaces, offering new ways to imagine freedom and equality across different cultures.

Conclusion:

Haraway's concept of the cyborg invites us to transcend the binaries that have long defined human existence- Through her feminist and postmodern lens, the cyborg becomes more than a technological being- it becomes a symbol of resistance, a metaphor for hybrid identities, and a hopeful vision of the future. While her ideas were conceived within the context of technologically advanced Western societies, their intellectual and political force carries powerful relevance for countries like India, where contradictions, inequalities, and transformations exist side by side.

India's social fabric is woven with threads of deep-rooted tradition, rigid gender norms, caste hierarchies, and regional diversities. Yet, it is simultaneously marked by rapid digital expansion, increasing access to technology, and the emergence of new platforms of communication and identity expression. In this space of constant negotiation between the old and the new, Haraway's cyborg comes alive- not as a distant figure of science fiction, but as a lived reality for many who straddle the intersections of marginality and digital empowerment. The rural woman who crafts and sells her products through YouTube, the Dalit youth mobilizing resistance through social media, or the transgender person exploring gender freedom via online avatars- these are India's cyborgs. They are not confined by the binaries imposed by birth, gender, caste, or geography. Instead, they invent new identities, forge new pathways, and redefine the relationship between the self, society, and technology. They reflect the transformative potential of Haraway's vision, one where boundaries are blurred, and where the body and technology merge to create new forms of agency and expression. But to fully embrace the cyborg in the Indian context, we must also be mindful of the theory's limitations. Haraway's language is dense, academic, and rooted in a context where access to technology is largely normalized. In contrast, in India, access to digital tools is deeply unequal- divided along lines of caste, class, gender, and rural-urban divides. Large sections of the population still remain digitally invisible or underserved. For Haraway's cyborg to become a meaningful figure of resistance in India, it must be localized and grounded in the country's socio-economic realities.

This means acknowledging that hybridity in India does not always come from abundance, but often from necessity and innovation. It means rethinking the cyborg not just as a futuristic being, but as someone who navigates slow internet, low-cost devices, language barriers, and social stigma to carve out space in the digital world. It also means expanding the metaphor to include voices and experiences that Haraway's original framework might have overlooked- those shaped by caste discrimination, linguistic marginalization, and infrastructural inequality. Despite these challenges, the spirit of the cyborg remains deeply relevant. It offers a way to challenge dominant narratives, imagine fluid identities, and embrace technological tools for empowerment and justice. In a country like India, where diversity and disparity coexist, Haraway's cyborg helps us envision new forms of solidarity and resistance- beyond rigid categories and imposed identities. Ultimately, the cyborg is not just a theoretical construct. It is a call to action- a reminder that identities are not fixed but created, that power can be reimagined, and that technology, when democratized, can be a force for liberation. In India's context, where old hierarchies continue to shape lives and new technologies bring both promise and peril, the cyborg offers a powerful lens to dream, disrupt, and transform. It invites us to imagine a future where boundaries are not barriers, but bridges to a more inclusive, just, and interconnected world.

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Comments:

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