

Chapter 8

Artificial Intelligence: A Smart and Empowering Approach to Women's Safety


Varkha K. Jewani

K.C. College, Mumbai, India

Prafulla E. Ajmire

G.S. College, Khamgaon, India

Suhashini Chaurasia

 <https://orcid.org/0000-0002-7443-0105>

S.S. Maniar College of Computer and Management, Nagpur, India

Geeta N. Brijwani

K.C. College, Thane, India

ABSTRACT

In today's society, women's safety and empowerment are top priorities. Artificial intelligence (AI) integration offers a revolutionary means of resolving these problems. This abstract examines a clever and empowering strategy that makes use of AI technologies to improve the safety of women. AI-powered personal safety applications dramatically improve individual security by providing real-time location monitoring, emergency notifications, and connectivity with trusted contacts. The use of AI algorithms in predictive policing detects high-risk regions and patterns of violence against women, allowing for tailored law enforcement responses. AI-enabled safety chatbots and hotlines offer a secure environment for reporting occurrences and provide details on one's legal rights and available assistance options. Platforms for reporting and crowdsourcing data enable women to contribute to data-driven safety efforts, enabling more efficient responses. Initiatives for community interaction powered by AI raise awareness and enable quick solutions to safety issues.

DOI: 10.4018/979-8-3693-2679-4.ch008

1. INTRODUCTION

Women's safety continues to be a pressing global concern in a time of unheard-of technical developments. It is the obligation of society to ensure women's safety and well-being as they traverse a variety of locations and situations, which calls for creative and practical solutions. Artificial intelligence's branch of machine learning is showing promise as a powerful tool for enhancing women's safety. Women's safety involves a variety of issues, such as protecting their physical safety, being shielded from harassment, preventing domestic violence, and providing safe travel experiences. Due to their pervasiveness, solutions must be all-encompassing and flexible—able to react quickly to new threats and offer support when it is required (Choudhary, 2017). In addition to ensuring the security and empowerment of women a fundamental human right, but it is also a cornerstone of creating societies that are fair, inclusive, and progressive. However, women are still frequently the targets of harassment, abuse, and discrimination, which seriously jeopardizes their general well-being and personal safety (Kaur et al., 2016). There is a fantastic chance to use artificial intelligence (AI) to develop a clever and powerful strategy to solve women's safety issues in the current period as technology continues to transform our society. With its capacity to absorb enormous volumes of data, identify trends, and make choices in real-time, AI has the potential to completely change how we approach the complex problem of women's safety. This introduction explores the idea of using artificial intelligence (AI) as a change agent, emphasizing how it may empower women by boosting their safety, giving them access to priceless resources, and promoting a sense of security in their daily lives (IEEE SCOPES International Conference et al., 2016). While numerous social, legal, and community-based programs have traditionally been used to address women's safety, AI adds a fresh perspective to this effort. We can develop cutting-edge solutions that are not only responsive but also proactive in avoiding and addressing risks to the safety of women by utilizing AI technologies. There are numerous uses for these AI-powered products, including community engagement platforms, safety chatbots, and personal safety apps to predictive policing, and beyond.

This clever and inspiring strategy acknowledges that protecting women is a shared responsibility that necessitates the incorporation of cutting-edge technology and community involvement. It is not just the job of law enforcement or community organizations. It considers the particular requirements and experiences of women in various geographic, cultural, and socioeconomic situations to make sure AI-driven solutions are usable, sensitive to cultural differences, and suited to the various obstacles that women may encounter. In this investigation of "A Smart and Empowering Approach for Women's Safety Using Artificial Intelligence," we will go further into the numerous components of this method. We will go through the essential elements, uses, and advantages of artificial intelligence (AI) in boosting women's safety, as well as important issues including data privacy, community involvement, and the importance of education and awareness. We set out on a path to create a safer, more inclusive society where women can thrive with confidence and empowerment by embracing this junction of technology and social development.

2. LITERATURE REVIEW

An increasing body of research and activities are aimed at utilizing AI technologies to solve women's safety problems, according to a literature review on "A Smart and Empowering Approach for Women's

16 more pages are available in the full version of this document, which may be purchased using the "Add to Cart" button on the publisher's webpage:

www.igi-global.com/chapter/artificial-intelligence/339654

Related Content

Creating Spaces for Critical Literacy for Bilingual Learners: Korean Kindergartners' Discussions About Race and Gender

So Jung Kim (2019). *Gender and Diversity: Concepts, Methodologies, Tools, and Applications* (pp. 245-263).

www.irma-international.org/chapter/creating-spaces-for-critical-literacy-for-bilingual-learners/208980

"Most of the Teaching is in Arabic Anyway", English as a Medium of Instruction in Saudi Arabia, Between De Facto and Official Language Policy

Ismael Louberand Salah Troudi (2019). *International Journal of Bias, Identity and Diversities in Education* (pp. 59-73).

www.irma-international.org/article/most-of-the-teaching-is-in-arabic-anyway-english-as-a-medium-of-instruction-in-saudi-arabia-between-de-facto-and-official-language-policy/231474

The Contribution of Women in Latin American Tourism Research: CIET as a Successful Study Case

Maximiliano Emanuel Korstanje (2023). *Women's Empowerment Within the Tourism Industry* (pp. 491-502).

www.irma-international.org/chapter/the-contribution-of-women-in-latin-american-tourism-research/327671

Sis I See You!: Stories of Black Women Administrators – Lifting the Veil, Stories of Black Women Administrators at HWIs

Shetina M. Jones and Patience D. Bryant (2022). *Black Women Navigating Historically White Higher Education Institutions and the Journey Toward Liberation* (pp. 229-244).

www.irma-international.org/chapter/sis-i-see-you/307825

Discourse Analysis for Intercultural Competence Development

Phyllis Bo-yuen Ngai (2021). *International Journal of Bias, Identity and Diversities in Education* (pp. 17-30).

www.irma-international.org/article/discourse-analysis-for-intercultural-competence-development/281659