

Chapter 2

AI-Based Security Framework for Emotional and Personal Safety of Women

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ABSTRACT

The statistics mention that women harassment compared to the male counterparts is significantly higher all over the world. Even though the government has brought in very stringent laws for violence against women, women's safety has been a debatable and major social issue. We are in the era of Digital transformation wherein all our processes and activities are enabled through technology platforms; it is also important to implement the same and enable the women's community to make use of these platforms to make them more resilient and stronger. The technology implementation in women's safety can be categorized into physical, mental, and emotional aspects. AI-based solutions, AI-based collaborative security framework, and the process of AI-enabled security solutions to ensure the holistic security aspects of women are presented here. The increased technology implementation and the great penetration power of technology, right from rural to urban areas and from illiterate to tech-savvy communities has improved the well-being of women tremendously in the recent past.

1. INTRODUCTION

Women safety is always a debatable and complex issue which comprises physical, social and emotional aspects. In the Indian context, Women have been a central force in human history since the Vedic ages. It is clearly depicted that they are always protected by the male community as a father, brother or husband. Even though we portray that woman as a Shakthi Roop, the recent trends show that the atrocities against women have increased multi-fold in the recent past. The problems against women start with

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gender inequality in workplaces, atrocities in personal space and social progress. Even though the law and the government agencies are bringing in a lot of legal reforms and creating awareness of societal commitment, it is also equally important to make them self-aware and self-protective. We are in the era of Digital transformation wherein all our processes and activities are enabled through technology platforms; it is also important to implement the same and enable the women community to make use of these platforms to make them more resilient and stronger.

2. LITERATURE REVIEW

2.1. Various Facets of Women Safety

As per D. Aggarwal, 2022 Women safety has been a debatable and a major social issue since the Vedic age. The atrocities against women start with the right to birth, the right to education, discrimination in the workplace and wages. Women's safety also includes freedom from poverty, and ensuring that women have safe access to water and sanitation services, as well as other public infrastructure and amenities.

Figure 1. Women safety facets



The physical and mental well-being of women can be ensured by creating safe public spaces and effective law enforcement systems. Even though the government has brought in very stringent laws for violence against women like dowry, physical abuse, sexual harassment in the workplace and the law against child abuse, the victims of online fraud have increased multi-fold in the recent past. The statistics mention that women harassment compared to the male counterparts is still significantly high all over the world.

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