

EMPOWERING SAFETY: ADVANCED ANALYTICS FOR WOMEN'S PROTECTION

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ABSTRACT

In today's society, ensuring the safety and security of women is of paramount importance. Despite various measures, women across the globe continue to face threats that compromise their safety in public and private spaces. The "Women Safety Analytics – Protecting Women from Safety Threats" project is an innovative initiative that seeks to address this critical issue by harnessing the power of advanced technology and data analytics to create a robust safety net for women.

This project focuses on the development of a sophisticated real-time threat detection system that utilizes a combination of machine learning, computer vision, and data analytics. The core of the system is designed to monitor environmental data and video feeds to identify potential threats to women's safety. By employing a gender detection model, the system can accurately identify women in real-time from video streams captured by surveillance cameras. Upon detecting a woman in a potentially dangerous situation, the system automatically initiates a series of safety protocols, including sending out an SOS alert to predefined contacts, local authorities, and nearby individuals who can provide immediate assistance.

Additionally, the project integrates data visualization techniques that map crime patterns and safety-related incidents across various regions. By analysing historical crime data and real-time reports, the system generates actionable insights that can be used by law enforcement agencies and policymakers to identify high-risk areas and develop targeted strategies to enhance public safety. The insights gained from this analysis are crucial for developing preventive measures and informing public policies aimed at reducing violence against women.

The "Women Safety Analytics – Protecting Women from Safety Threats" project represents a significant step forward in leveraging technology to protect women and enhance public safety. By providing real-time threat detection, automated emergency responses, and actionable insights, this project empowers communities and authorities to proactively address safety concerns, ultimately contributing to a safer and more secure environment for women.

KEYWORDS :

Women Safety, Threat Detection, Crime Mapping, Public Safety, SOS Alert System, Predictive Analytics, Violence Prevention, Safety Technology, Emergency Response.