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Safe Her: AI Powered Women Safety Analytics System

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Abstract: From street corners to city centers, women's security still faces serious challenges worldwide. Instead of waiting for harm to happen before acting, most current tools depend on users pressing alarms or describing events afterward. Built with artificial intelligence and machine learning at its core, SafeHer shifts toward anticipation - spotting danger signs early through live location tracking and spatial insights. By studying past incidents alongside shifting patterns across neighborhoods, it calculates risks ahead of time while offering smarter path options and instant help access when needed. Out in the open, SafeHer uses Python tools that learn patterns - like sorting behaviors with K-Means and predicting risks using Random Forest. Instead of waiting, it acts early, powered by real-time location updates from Firebase. Picture this: danger zones appear instantly, drawn through Google Maps' visuals. Smarter choices emerge when data leads, turning city spaces more secure without fanfare. Prevention takes root where alerts once ruled.

Women face risks every day. Yet cities now test new tools. Artificial intelligence steps in where old systems fail. Prediction models spot danger before it strikes. Real time location checks help when seconds count. Urban areas grow smarter by linking data streams. Emergency teams respond faster using live updates. A system called SafeHer changes how protection works. Smarter alerts come from patterns machines learn. Safety shifts from reaction to foresight.

I. INTRODUCTION

One out of every three females on Earth faces physical or sexual harm at some point, says the World Health Organization. That fact makes female-targeted violence a top-tier crisis tied to both personal security and basic rights. Most current solutions - like ads that teach people, phone lines staffed by officers, or numbers you call when danger hits - do little beyond damage control. These tools step in once something bad already happened instead of stopping it ahead of time. A shift is happening now toward digital safeguards built to spot warnings sign early. Systems using live data can warn individuals instantly when threats appear near them. Help arrives faster because alerts go straight to phones, contacts, or local responders without delay. The goal isn't just response - it's interruption before escalation.

A single woman in every trio across the planet will endure bodily or sexual assault during her lifetime - according to global health data. This reality turns gender-based harm into a pressing threat against safety and dignity alike. Today's common fixes - public awareness messages, emergency hotlines run by responders, contact points activated only after risk strikes - barely reach further than managing fallout. Such methods arrive post-event, rarely standing between danger and its target before things unfold. Right now things are changing, moving into tools that catch red flags before trouble grows. Live information feeds let systems send immediate warnings when danger shows up close by. People get help quicker since notifications jump right onto devices, reach friends, or connect to local aid fast. Stopping issues before they spiral matters more than reacting after - giving clear sight to those in charge and neighbors around. Situational awareness of both operators and other people living nearby.

In light of the prior findings, we design the SafeHer: An AI-Powered Women Safety Analytics System. SafeHer is an interdisciplinary safety framework which leverages machine learning to combine GPS, crime data, and maps to anticipate potential danger. This fully integrated platform is designed to proactively warn users of risky locations, and helps them choose safer routes before stepping out. A simple press of a button on the mobile application can connect users with police or a loved one during times of uncertainty.

This study is based on the novel concept of Safety4.0 that utilizes Artificial Intelligence, Internet of Things and Data Analytics to develop an Intelligent, Adaptive and Human-centric safety solution. The SafeHer solution integrates preventive analytics, real-time tracking and alerting and a smart emergency response module into one application. It aims at addressing safety needs of women while promoting innovation and social responsibility to help women safely navigate public spaces and improve safety and inclusion of all citizens in smart cities.

II. REVIEW OF LITERATURE

Over ten years, tools like phones and smart systems quietly changed how people stay safe. Phones connect everywhere now. Because of that, information moves fast. Data collects on its own. Systems react without waiting. New ideas keep showing up in safety gear. Many focus sharply on women. Threats in streets or crowded places pushed this shift. Harassment grew louder. Abuse became harder to ignore. Safety tech followed close behind.

These days, emergencies usually rely on police helplines, clusters of surveillance cameras, yet also round-the-clock response units such as 112. Still, most safety setups kick in only after something happens. Problems pop up - reports take time, responses aren't immediate, plus some areas stay uncovered. With smart city advances alongside Industry 4.0., though, protection now shifts before incidents unfold. Now safety isn't just about reacting - data feeds systems that spot risks before they grow. Alerts pop up the moment something feels off, sometimes before a person even notices. Machines watch quietly, feeding signals to those who need to act. Warnings travel fast, jumping straight into hands that manage crises.

Phones now do much more than call or send messages. Because they are everywhere and cost little, safety apps spread fast. Instead of just connecting people, these tools gather live details like where someone is, how they move, what's around them. Hidden parts inside - like GPS, motion detectors, internet-linked sensors - make that possible. Once collected, the info flows into online storage spaces, making help easier when danger strikes. With so many abilities packed in, phone software plays a key role in daily protection. Smart number-crunching methods study past incidents, follow positions as things happen, sync updates using web hubs, pull map data to spot risky spots before trouble occurs. Warnings pop up instantly. Safer paths appear on screen. It works ahead of time by guessing problems, yet stays ready for sudden crises too - a panic signal feature reaches out fast when pressed. Help connects quicker because of it.

At its core, this research fits into Safety 4.0 - a space where artificial intelligence, connected devices, and data tools come together to build smarter, responsive environments focused on people. Instead of working in isolation, prevention systems, live monitoring, and rapid aid are woven into one system; SafeHer uses this blend to connect tech progress with community needs.

Because it exists, women may feel more secure navigating urban areas, which quietly shapes cities that are both safer and more welcoming for everyone.

Over recent years, digital tools plus smart algorithms have changed the way people stay safe out in cities or at home. Because so many now carry phones constantly connected online, help can arrive faster through instant alerts while information gathers on its own without anyone needing to act. With these shifts, fresh options appear - ones built around tech that responds quickly, especially useful for females facing more threats like abuse or unwanted attention when moving through crowded areas.

Old ways like calling cops, camera watches, or dialing help lines do matter - but mostly kick in once trouble already happened. Late reports slow things down, aid might not come fast, some areas stay uncovered. Now city tech grows smarter, factories get digital minds; safety stops waiting till harm hits. Predictions rise from number crunching, machine thinking spots danger before it lands. Tiny detectors sense odd shifts, warnings fire off without someone pushing buttons. Help teams link up on their own when signals flash red across screens. No more just fixing what broke - eyes now scan ahead, ready before cracks show. Data hums beneath streets, guiding moves before shouts echo through alleys. Silent networks watch, learn, nudge responses into motion well ahead of chaos. This new rhythm runs quieter than sirens but starts long before they'd wail.

Mobile phones now play a big role in staying safe, mainly due to how easy they are to reach, their low cost, and the way they bring together features like GPS, IoT sensors, and online data storage. While many see them just for calling or texting, these gadgets can also detect motion, pinpoint locations, and send updates instantly. Because of that ability, apps on these devices help people feel more secure by sending emergency signals, showing real-time whereabouts, linking neighbors into alert groups, even sharing safety tips. Though not always obvious, the shift toward using everyday tech for protection has quietly reshaped what it means to stay aware and prepared.

Meanwhile, machines that learn from data are being used more often to study where crimes happen, spot risky spots ahead of time, because they go through old records, timing clues, alongside location details. These systems point out dangerous zones before trouble occurs so alerts can pop up when needed. Phones now carry these tools, fitting into a concept called Safety 4.0, shaped like Industry 4.0 but focused on protecting people using live feedback, smart links, automated responses instead of just factories or production lines.

Still, even with new tech advances, linking separate tools into one smart safety network remains tough. Lots of current apps do just one thing - send alerts, share whereabouts, or spread info - but skip forecasting risks or automatic safeguards. What's missing shows why something like SafeHermatters: it weaves together artificial intelligence, live location checks, and instant help triggers all in a single design.

Looking back at earlier work helps spot what has changed, yet some parts still missings show up clearly.

A. Pamela Tozzo, Andrea Gabbin, Caterina Politi, Anna Chiara Frigo, Luciana Caenazzo (2021)

A look at how phone apps might help stop violence toward women involved asking 1,782 university students in Italy what they think. Findings appeared in the International Journal of Environmental Research and Public Health, where safety apps were split into three kinds - those offering info, those tracking location, those sending alerts during crises. Not knowing these exist turned out to be the largest hurdle slowing global-world use. Even though more than six in ten had never heard of

such tools, nearly eight out of ten said they would in the future, provided it's simple to get. Better teaching, wider visibility, easier access - these could turn mobile apps into practical support when it comes to tackling abuses shaped by gender [1].

Tinkara Bulovec and Katja Eman (2025) analyzed the role of mobile applications in preventing sexual violence in nightlife settings. Their study, published in Urban Science, connected urban safety, nightlife behavior, and digital innovation, highlighting the increasing risk of sexual violence in crowded entertainment spaces. Through a systematic literature review and app feature analysis, the authors found that although numerous safety apps exist, only 18 applications explicitly target the prevention or intervention of sexual violence. They argued that most existing solutions are fragmented, focusing on limited aspects like alerts or location tracking, and fail to involve all stakeholders such as bystanders, venue owners, and emergency services. The study proposed a holistic, inclusive, and ethically designed safety framework that integrates mobile technology into broader smart city safety systems [2].

B. Tinkara Bulovec and Katja Eman (2025)

Looking at how phone apps might help stop sexual assault during nights out. A paper in Urban Science tied together city safety, partying habits, and new tech tools, pointing out rising dangers in busy nightlife spots. After reviewing past research and checking what features current apps offer, they spotted just eight that directly aim to prevent or respond to sexual violence. Many available options work in pieces - some send alarms, others track positions - but miss bigger connections, leaving out helpers nearby, bar staff, or rescue teams. Instead of isolated fixes, the researchers suggested a wider approach: thoughtful design, shared responsibility, built right into smarter urban safety networks [2].

C. Jiyoung Park and Dongheon Kang (2024)

One study took a close look at how artificial intelligence and smart tools are used in keeping workplaces safe. Out came the idea of Safety 4.0 - borrowing ideas from modern industrial tech but aiming them squarely at protection instead. Papers from fields like buildings, hospitals, emergency services, power plants, and transit were sorted through, totaling 65 solid academic works. With machine learning patterns, networks of sensors talking to each other, and virtual models mirroring real environments, spotting danger early became far more reliable.

Accidents dropped because warnings arrived sooner, responses got faster, decisions leaned less on guesswork. Still, moving forward blindly isn't wise; consistent rules must shape these tools so personal information stays protected while fairness guides every algorithm choice [3].

D. Marco Romano, Teresa Onorati, Ignacio Aedo, and Paloma Diaz (2016)

Looking into how mobile apps support emergency responses, researchers wrote about people using phones like sensing tools during crises. In their paper called "Designing Mobile Applications for Emergency Response: Citizens Acting as **Human Sensors**," which came out in *Sensors*, they showed everyday individuals could help when disasters strike.

Smartphones, having built-in GPS, cameras, and motion detectors, allow regular folks to send live updates from the scene. Instead of waiting on officials alone, information flows both ways - citizens report while responders reply. Clear interfaces matter because stress narrows attention under pressure. Photos tagged with location details improve what teams understand at command centers. Because feedback loops exist between public and staff, mistakes drop.

Combining crowd-sourced visuals and device signals sharpen overall crisis pictures. Insights from this work shaped later designs where tech supports collective safety actions [4].

III. IDENTIFIED RESEARCH AND POLICY GAPS

Based on the literature review, several gaps persist:

- 1) **Awareness gap:** One reason folks overlook safety apps? They simply do not know they exist - a gap hitting harder among women, even if curiosity runs high. These digital helpers remain out of reach without clear paths to learning about them. Research by Tozzo et al. shows recognition matters more than intent; seeing value comes before clicking download. Interest sits idle when details are nowhere to be found. Tools capable of spotting danger trends and blocking harm go unused, not because they fail, but because voices explaining them stay too quiet.
- 2) **Technological Gap:** Most current safety apps do one thing at a time, reacting after something happens instead of seeing it coming. Rather than just sending alarms or showing locations, better tools could study behavior to stop danger before it occurs. Yet few combine artificial intelligence with proactive features in a full protection setup. These gaps leave users without smart systems capable of spotting threats early. Without prediction, response stays stuck in emergency mode too often. What exists now rarely thinks ahead - future solutions should start earlier, act smarter.
- 3) **Data and Privacy Gap:** Though machines help manage risks, clear rules for handling personal details stay missing. Where information flows, guardrails built on law or ethics rarely follow. Park and Kang noticed gaps in 2024. Without steady structures, private facts - names, places, habits - drift through systems unchecked.
- 4) **Design Gap:** Today's phone-based safety apps usually come with cluttered layouts, missing thoughtful, situation-responsive features (Romano et al., 2016). Because of that, people struggle to use them well when help is needed most - this delay stands out as a core problem.
- 5) **Policy Gap:** Even though officials push for safer tech, rules tying apps to public alert networks stay unconnected. Patchy rollouts happen everywhere, so results swing wildly - this gap weakens the whole effort

SafeHer System Architecture



A. SYSTEM WORKFLOW

Starting off, the process flow shows how SafeHer works by gathering live position details. Right after that, artificial intelligence examines past criminal activity to spot trends. Instead of just reacting, it forecasts danger intensity based on current conditions. Then comes alert creation - warnings or urgent help signals fire off when needed. All of this unfolds exactly as displayed in Figure 3.2

SafeHer System Workflow



IV. PROPOSED SYSTEM

Out of smartphones, smart algorithms, and online storage grows a shield called SafeHer. From your phone, it pulls live signals - location pings, emergency alerts, sensor readings - without waiting. Stored deep in Firebase servers, that stream turns into patterns. Clustering pieces past moments into groups; forests of decision trees sort danger chances on the fly. Learning from what happened, guessing what might come next. Fig. 1 shows how the system is built. Thanks to this setup, it suggests secure paths while sending live warnings through Google Maps API.

A. MACHINE LEARNING PIPELINE

First thing, SafeHer grabs crime data that is just enough. Key bits stand out, then the noise fades away. Patterns start to cluster through K-Means organizing. From there, forecasts shape up using Random Forest logic. Out of those guesses, danger zones slowly appear. Nowhere near every risk shows up right away. Danger spots often hint at trouble before things go wrong. Just how Figure 3.3 maps it out - each step follows, one after another. Signals pop up where threats grow quiet but present. What you see depends on where you look first

Machine Learning Pipeline

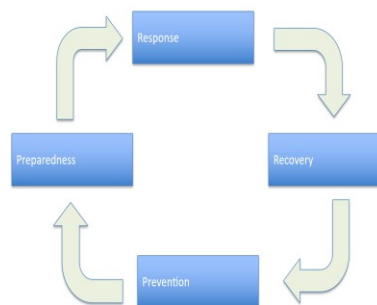


B. FRAMEWORK FOR WOMEN EMERGENCY RESPONSE

A comprehensive AER system includes:

- Preparedness: Data collection, clustering, ML model training, user tips
- Response: SOS trigger, GP tracking, contact notifications.
- Recovery: Data logging, retraining, feedback collection.
- Prevention: Real-time alerts, safer route guidance, citizen reporting.

AI Emergency Response Framework



V. GLOBAL AND NATIONAL BEST PRACTICES

Few places worldwide - such as the U.S., Australia, India - now use smart systems where artificial intelligence meets digital tools to help protect women. While tech evolves, these setups quietly reshape how safety is managed. FEMA's Smart Preparedness efforts, along with local SafeCity systems across U.S. cities, rely on artificial intelligence to monitor public areas - forecasting risks while sending alerts through neighborhood networks.

These tools aim to protect women by adjusting responses before incidents occur. Alerts pop up via mobile platforms, often ahead of potential threats. Monitoring blends into daily urban life, quietly shaping how people move at night. Decisions emerge from data patterns, not just reports. Safety shifts from reaction to anticipation, guided by software tracking behavior trends.

Australia fights violence against women by using phone apps that boost personal security. These tools send instant warnings when danger is near. Instead of just reacting, the system predicts risks through smart data tracking. Safety networks now rely on technology that learns patterns over time. Alerts go out faster because machines help spot threats early. Phones become shields, quietly watching for trouble.

From streetlights to software, India's push for safer cities leans on tools like the 112 emergency line and projects under NDMA and MHA. While tech such as artificial intelligence shapes urban watch systems, results differ state by state. Without shared digital rules, gaps remain among police actions, smart platforms, and government plans. Uniform setups could bridge these splits where safety meets infrastructure.

VI. DISCUSSION

Around the world, more people now see how tech can help protect women - still, what policies promise often falls short on the ground. Even when high-income regions roll out apps or smart alert systems, places like India struggle to build solutions that fit local needs, stay within budget, or include everyone. One idea shows up again and again in these studies: safety tools are scattered, unlinked, left drifting between apps, officials, police. Tozzo and team pointed out something stark - more apps exist now to fight abuse toward women, yet most people do not know they're there or cannot reach them easily. So what happens when new tech appears but hardly anyone uses it? Progress stalls without teaching communities how to access help, without making online spaces feel safe to rely on. Females feeling safer at night becomes clearer when tech and urban spaces mix, Bulovec and Eman pointed out in 2025. Instead of waiting for harm to happen, systems should anticipate risk - yet most apps still respond after incidents occur. Prediction, physical layout choices, and teamwork among locals, designers, and officials matter greatly; these pieces form what SafeHer builds on. Because cities grow smarter, protection can't rely only on alarms or reports after dark.

Park and Kang (2024) found that artificial intelligence can shift safety practices from fixing problems after they happen to stopping them before they start - this idea shapes what some now call Safety 4.0. Yet, their work showed how places still growing often miss clear rules for using AI, proper learning setups, or systems to exchange information smoothly. Much like urban areas in India working on keeping women safer, progress stalls when departments fail to sync efforts or fully bring technology into daily routines.

Folks stepping in as walking data points - that idea took shape in Romano and team's 2016 work, showing how crowd-powered updates speed up crisis reactions. Though focused on events like storms or quakes, the core insight fits everyday safety too - when neighbors report what they see, alerts spread faster, timing tightens. Real people spotting trouble, confirming it, passing it along - it sharpens the whole system without adding gear or staff.

Folks keep noticing some things similar worldwide:

keeping women safe can't rely on single apps alone anymore. What works now ties smart tech together - like forecasting risks, sending instant warnings, plus linking with authorities. SafeHer fits right into that change. It spots danger zones before incidents happen. Tracking runs nonstop in the background. Help arrives fast when alarms trigger without delay. Besides following worldwide patterns, problems remain when blending new tech with fair access, personal data rules, strong policies. While richer countries shaped solid systems for intelligent public safety, places such as India need tailored, affordable, simple tools ready for wide rollout.

Starting fresh each time, research shows protecting women works better when looking ahead instead of waiting for harm to happen. Moving beyond old ways means using tools shaped by data, not just rules made after incidents occur. Systems such as SafeHer shift the focus - technology steps in before danger appears. Progress here ties clever design to fairness, giving everyone a steadier chance at security. Decisions guided by patterns help cities respond smarter, not harder. Safety grows stronger when tech listens closely to real lives.

Comparison of Women Safety Applications

Application	AI Prediction	Live Tracking	SOS
SAKHI App	No	Yes	Yes
Athena App	No	Yes	Yes
MyPlan App	No	No	Yes
SafeHer (Proposed)	Yes	Yes	Yes

VII. RECOMMENDATIONS

- 1) Establish Women Safety Technology Cells at national and state levels under MHA and NDMA to manage and monitor AI-based safety systems.
 - 2) Promote multi-stakeholder partnerships among police, NGOs, academia, and private sectors for inclusive and ethical safety innovation.
 - 3) Implement AI governance and privacy standards ensuring transparency, user consent, and responsible data use.
 - 4) Encourage citizens to act as “human sensors”, reporting unsafe areas and contributing to crowd-sourced safety intelligence.
- To achieve this vision, several future recommendations can be proposed:
- Policy Integration: Governments should formally integrate AI-driven women safety frameworks into national safety and urban planning policies to ensure institutional legitimacy and funding.
 - Cross-Sector Collaboration: Establish inter-ministerial committees involving Home Affairs, Women & Child Development, IT, and Urban Development for coordinated implementation and data sharing.
 - Ethical AI & Data Governance: Formulate clear ethical standards for AI use in surveillance and personal safety, protecting user privacy while maximizing effectiveness.
 - Technological Innovation: Promote R&D in deep learning, voice-based SOS detection, and IoT-enabled wearables to expand the scope of safety monitoring and early warning.
 - Community Empowerment: Conduct self-defense and safety awareness workshops, and train citizen volunteers as “digital safety ambassadors” to bridge the gap between technology and social awareness.
 - Research and Impact Evaluation: Create national research centers dedicated to women safety analytics, evaluating the impact of AI-based tools like *SafeHer* on crime reduction, response time, and social empowerment.

VIII. CONCLUSION

Starting off, artificial intelligence mixed with clever tech is changing how safety gets handled—especially when it comes to protecting women wherever they are. Look at what studies show: apps on phones meant for emergencies and online messages about staying safe do help people respond faster during crises. Still, many tools now only kick in after something bad happens, don't connect well with each other, and struggle to see danger coming.

Public awareness matters more than we think - Tozzo and team said so back in 2021. Smart cities work better when different groups join forces, according to Bulovec and Eman five years later. Instead of waiting for trouble, systems now predict risks using artificial intelligence, found Park and Kang by 2024. Phones let people speak up about danger zones, which Romano's group pointed out long before others caught on.

Out of those findings came *SafeHer* - a live safety setup driven by artificial intelligence. It uses pattern recognition, location data, and phone networks to spot risky areas ahead of time. Instead of just reacting, it suggests better paths through neighborhoods. Help arrives faster because alerts go out instantly when needed. Tech merges with local input and updated rules here. Not your usual emergency tool, it adjusts as conditions change.

Safety becomes something people share together, not just receive. Prevention sits at its core, built for everyone, always learning. A single idea stands out - machines predicting crises work better when rules around data are clear and people take part. Because trust grows where transparency exists, quicker decisions happen when alarms sound. One system, called *SafeHer*, fits neatly into larger efforts already running nationwide. Where emergency lines like 112 operate, adding new tools makes alerts smarter. Across urban hubs labeled "smart," this blend could stretch further than expected. Scale emerges not from tech alone, but how it connects with what's already in place.

This study feeds into the bigger picture of Safety4.0 - where tech, rules, and people join forces so women feel secure and communities hold strong. Instead of just reacting, SafeHer shows how smart systems can step in before harm happens, help foresee risks, involve voices often left out, then quietly shift things toward fairness in digital life.

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