

# Women Safety Analytics: Protecting Women from Safety Threats

Empowering women through real-time crime data and safety tips. Building a machine learning system to boost safety in cities.



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# Introduction: Addressing a Critical Need

## Urban Safety Concern

Women face rising risks in urban areas worldwide.

## Current Solutions

Often reactive, lacking predictive capabilities.

## Our Approach

Uses predictive analytics and real-time assistance.

## Goal

Reduce incidents and empower informed choices.

# Problem Statement: The Challenge

## Real-Time Data Gap

Safety info is often outdated or inaccessible.

## Under-reporting

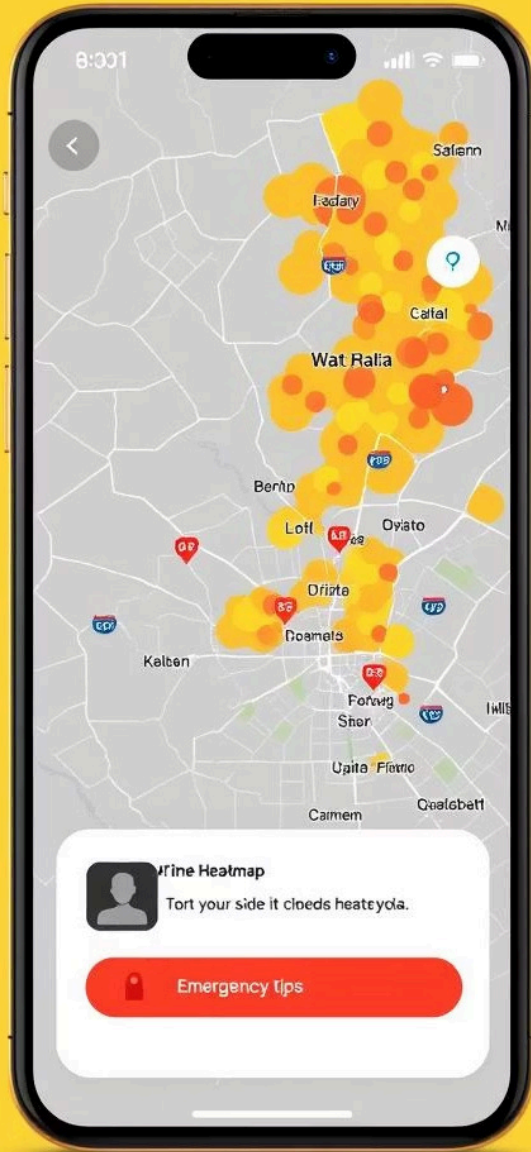
Fear and stigma cause many to stay silent.

## Response Inefficiency

Emergency responses average 15 minutes delay.

## Limited Personalization

Safety advice is generic, not location-specific.



# Key Features: Empowering Safety



## Real-Time Crime Data

Hourly police  
updates.



## Safety Score

ML risk assessment  
by location.



## Chatbot Assistance

Instant help and  
reports.



## Emergency SOS

Direct emergency  
contact with  
location.



# Technology Stack: Building a Robust System



Python & TensorFlow

ML model creation and training.



Flask API

Real-time data access.



PostgreSQL

Secure data storage.



React Native & AWS

Mobile app and scalable cloud deployment.

Initial investment \$50k; \$10k annual maintenance.



# How the Chatbot Works: Immediate Assistance

1

## NLP Understanding

Interprets user queries naturally.

2

## Real-Time Support

Provides safety tips instantly.

3

## Emergency Integration

Connects with local services fast.

4

## Personalized Risk

Tailored advice using location data.



# Challenges: Navigating the Road Ahead

## Data Privacy

Protect user anonymity and data security.

## Algorithm Bias

Address potential inequities in ML models.

## System Integration

Ensure smooth police API compatibility.

## User Adoption

Encourage widespread engagement and trust.



# Conclusion: A Safer Future for Women

- Proactive Solution  
Empowers women with real-time information.
- Scalable Model  
Builds safer communities sustainably.
- 30% Incident Reduction  
Projected decrease in 2 years.
- Call to Action  
Support investments in women's safety.



