EQUALEYE

FAITH

NEKESA

EMPOWERING EQUALITY THROUGH TECHNOLOGY.

About Us

Focus on GBV Detection
• Most competitors offer general safety monitoring, while EqualEye specifically targets GBV.

Real-Time Intervention and Community Safety
EqualEye combines real-time detection with preventive alerts,
encouraging immediate intervention and creating deterrents.

.**Ethics-Driven and Privacy-Protected Design**
EqualEye prioritizes privacy and data protection, appealing to communities and
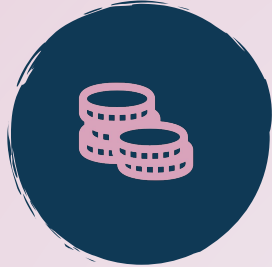institutions with high ethical standards.

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At EqualEye We aim to reduce the violence of people, especially politically motivated violence against women, by using surveillance technologies to make public spaces safer. To accomplish this mission, we give communities an AI tool that listens for verbal or environmental cues indicating the possibility of violence and alert the appropriate authorities for a timely response without putting any one person's safety or dignity at risk

The Problem

Gender Inequality

GBV reinforces gender inequality, often targeting women and girls but also affecting men and boys, particularly in cases that deviate from traditional norms. This entrenches stereotypes and limits social progress towards gender equality.
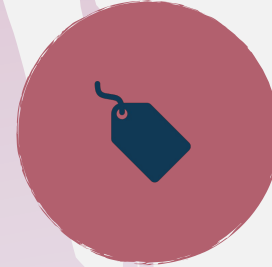
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Public Health Crisis

GBV is a significant public health issue that affects community safety, increases healthcare demands, and drains resources needed to address physical and mental health issues related to violence.

Human Rights Violation

GBV is fundamentally a violation of human rights, undermining the dignity, security, and autonomy of individuals, particularly women and marginalized groups.

Social and Economic Consequences

Economically, GBV can result in lost productivity, increased healthcare costs, and significant economic burdens on both individuals and society.
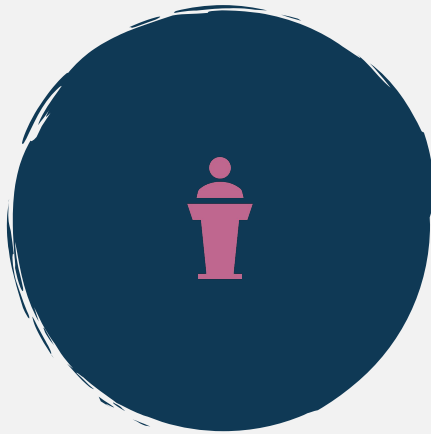
Barriers to Justice and Reporting

Many GBV cases go unreported due to fear of retaliation, lack of support services, or distrust in law enforcement. This allows perpetrators to avoid accountability, further entrenching the issue.
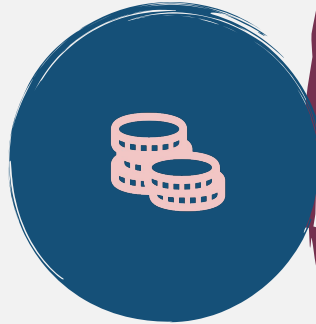
Solution

Real-Time Alerts and Notifications

Configure the system to send real-time alerts to security personnel, law enforcement, or nearby support staff when GBV-related behaviors are detected.
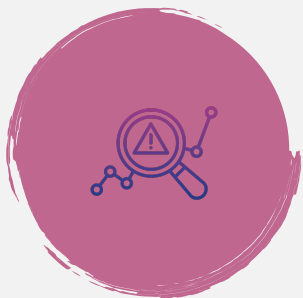
Community Awareness and Education

Inform the public about the presence of the EqualEye system and how it works, which can act as a deterrent.

Privacy-Centric Design

Anonymize non-violent footage and minimize data retention. Only keep footage with detected GBV incidents for further review or legal purposes, while adhering to data protection regulations.

AI-Driven Detection

Uses machine learning algorithms to recognize patterns and behaviors associated with GBV, such as aggressive gestures, sudden movements, and distress sounds.
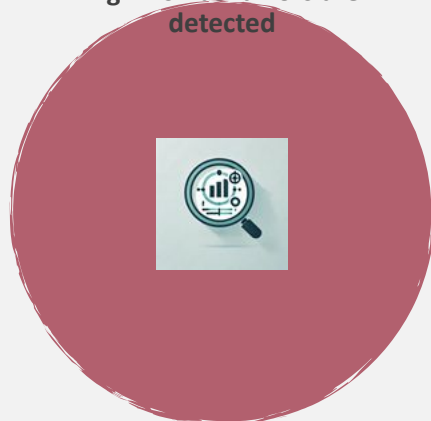
Real-Time Alerts

Sends immediate notifications to security personnel or law enforcement when high-risk behaviors are detected

Privacy-Centric Design

Prioritizes privacy by blurring non-relevant faces and anonymizing footage that does not involve incidents

Data Analysis

Gathers non-sensitive data insights on GBV trends and high-risk zones, supporting targeted interventions and informing public policy.

EQUALEYE OVERVIEW

Contributes directly to:

•**SDG 5 (Gender Equality)**: By actively detecting and addressing violence, EqualEye helps protect vulnerable groups, promoting safer, more inclusive communities.

•**SDG 16 (Peace, Justice, and Strong Institutions)**: The system fosters peace and justice by supporting local institutions in maintaining safe, secure, and equitable environments for all.

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Role of Each Component in EqualEye

Component	Role in Project
React.js	Builds the user interface for the web platform, including the dashboard and reports.
Node.js	Handles backend logic, manages API endpoints, and processes real-time alert data.
MySQL	Stores and organizes metadata from analyzed footage, alert logs, and user information.
Python	Powers AI algorithms for behavior analysis and video pattern recognition.

TECH STACK

1. Tech Stack Overview

- **Frontend**: React.js, HTML, CSS, JavaScript

- **Backend**: Node.js, Express.js

- **Database**: MySQL

- **AI and Machine Learning**: Python

Key Tools and Libraries

- **TensorFlow & PyTorch**: Used for training models to recognize behaviors associated with GBV.

- **OpenCV**: Integral for processing and analyzing CCTV footage in real time.

- **Chart.js**: Displays visual insights and trends in the admin dashboard effectively.

- **Nodemailer**: Enables email notifications for real-time alerts when suspicious activity is detected.

Why This Tech Stack?

- **React.js**: Chosen for its modularity and ease of creating interactive user interfaces. It ensures a seamless user experience for Equal Eye's dashboard and reports.

- **Node.js**: Provides a fast and scalable backend to handle real-time alerts and API requests efficiently.

- **MySQL**: A reliable relational database for storing securely structured data, such as alert logs, footage metadata, and user profiles.

- **Python**: Essential for AI functionalities like behavior detection and video analysis. Frameworks like TensorFlow and OpenCV enhance accuracy in analyzing CCTV footage.

Team

Mirjam Nils

COO

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Victoria Lindqvist

COB

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Summary

Summary tagline or sub-headline

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THANK YOU

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