



CYBERSHIELD HACKATHON 2025

WiCyS Student Chapter, VIT Bhopal University

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women'sonline SAFETY TOOLKIT

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PROJECT OVERVIEW



The Women's Online Safety Toolkit is a web-based application designed to provide tools and resources to help protect women online. It addresses three critical areas: privacy protection, stalking defense, and harassment detection.

Women face disproportionate levels of online harassment, stalking, and privacy violations.

Research shows that:

- 73% of women have experienced online harassment
- 1 in 5 women have faced severe online harassment including stalking and threats
- 57% of online abuse victims don't know how to respond
- 40% of women have reduced their online presence due to harassment

PROBLEM STATEMENT

SOLUTION COMPONENTS

Our toolkit provides three main categories of protection:

A. Privacy Protection

- Social media privacy audit tools
- Personal information removal guidance
- Secure browsing recommendations
- Password strength evaluation
- Two-factor authentication setup guides

B. Stalking Defense

- Digital footprint analysis
- Stalking pattern recognition
- Location sharing controls education
- Alert systems for suspicious activity
- Evidence collection tools

C. Harassment Detection

- Message content screening
- Threat level assessment
- Automated response suggestions
- Blocklist management
- Report generation for authorities



TECHNICAL IMPLEMENTATION

Frontend Technologies:

- HTML5, CSS3, JavaScript (ES6+)
- Responsive design with CSS Grid and Flexbox
- Font Awesome icons for visual elements
- Custom CSS with gradient designs and animations

Key Features Implemented:

1. Interactive harassment detection tool
2. Privacy checker simulation
3. Statistics visualization
4. Responsive design for all devices
5. User-friendly interface with clear navigation

Algorithms:

- Basic pattern matching for harassment detection
- Simulated privacy scoring algorithm
- Responsive UI components



USAGE INSTRUCTIONS

Harassment Detection Tool:

1. Type or paste a message into the text area
2. Click "Analyze Message"
3. Review the risk assessment and recommendations

Privacy Checker:

1. Enter a username or email address
2. Click "Check Privacy"
3. Review the privacy score and recommendations



FUTURE ENHANCEMENTS

- Integration with machine learning for more accurate harassment detection
 - - Browser extension for real-time protection
 - - Mobile application development
 - - Integration with social media platforms
 - - Multilingual support
 - - Community reporting features





ETHICAL CONSIDERATIONS

- - All processing happens client-side (no data stored)
- - Transparency in how analysis works
- - Clear disclaimer about tool limitations
- - Recommendations for seeking professional help when needed

THANK
YOU