



# Surakshak

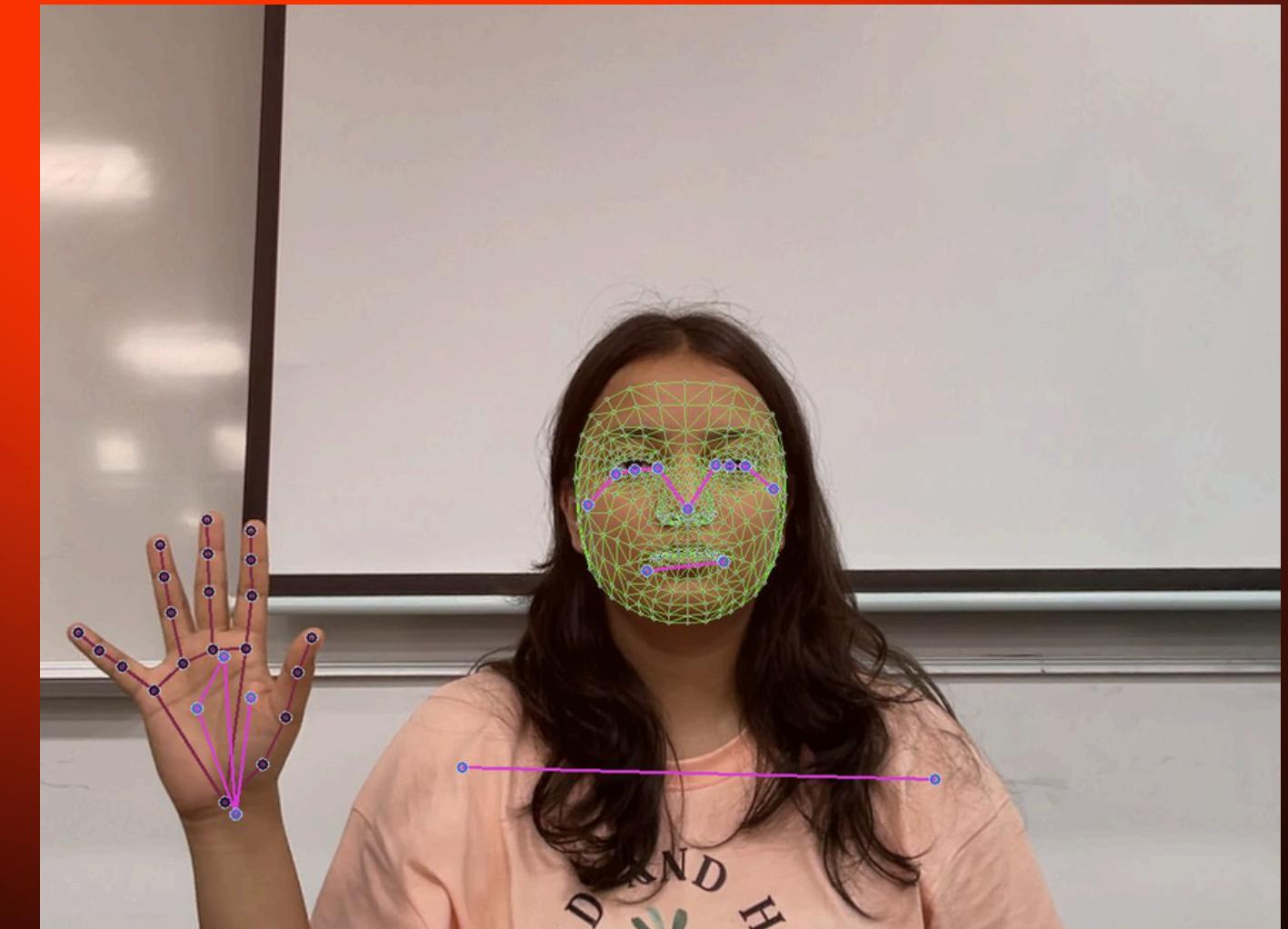


**“smart guardian for women’s safety, alerting  
danger before it strikes.”**

# Problem Statement

**“Women safety analytics”**

1. Person & Gender Detection
2. Gender Distribution Count
3. Lone Woman at Night
4. Woman Surrounded by Men
5. SOS Gesture Recognition
6. Hotspot Identification



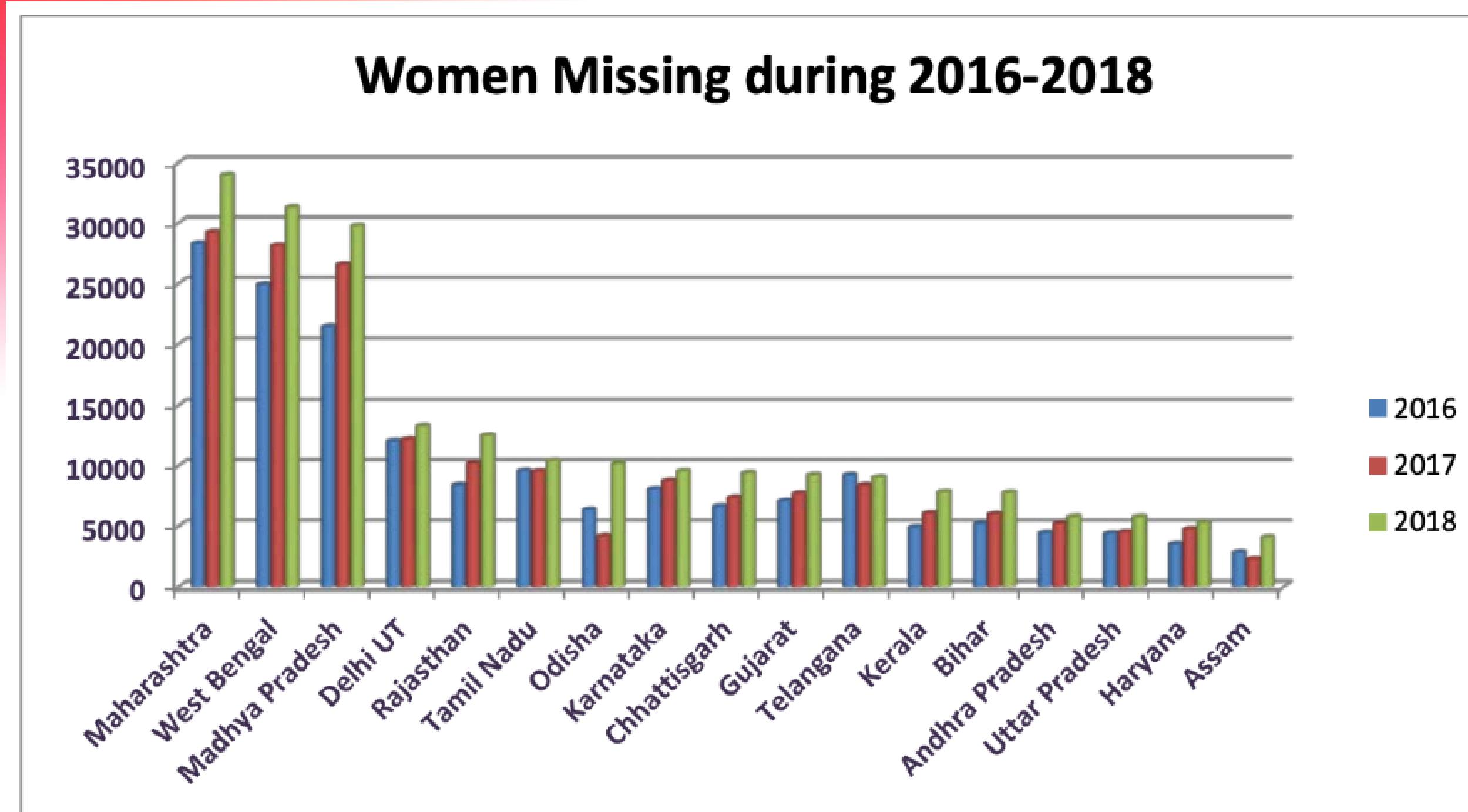


# What's the issue?

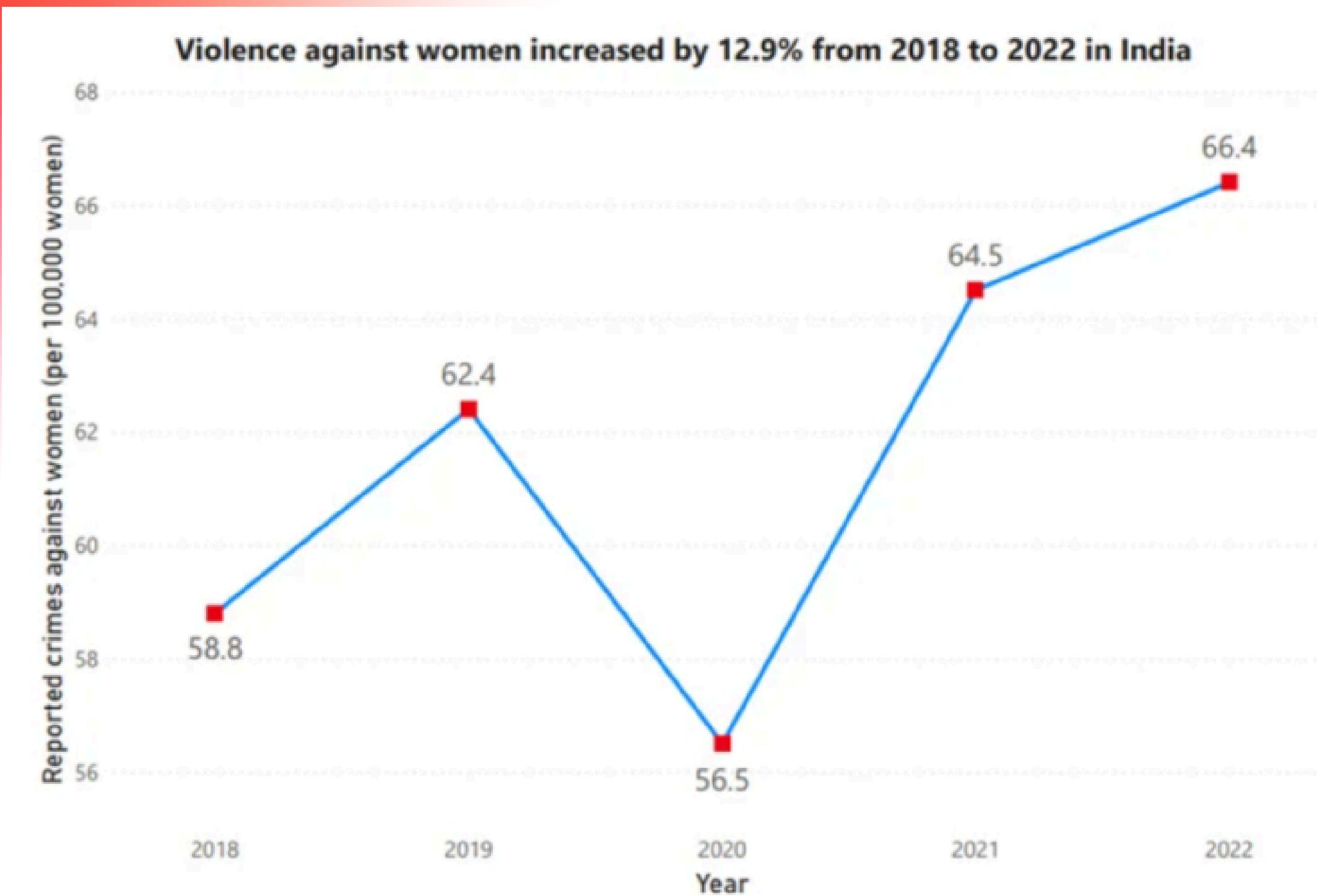


- Rising Crimes Against Women NCRB reported 445,256 cases of crimes against women in 2022.
- Alarming Daily Statistics from 2017 to 2022, cases rose from 359,849 to over 445,000.
- The National Family Health Survey-5 revealed that nearly one-third of women aged 15-49 in India have faced some form of violence.
- High Incidence of Missing Women according to the NCRB, 64.34% of the reported missing cases were women.

# THE NEED OF THE HOUR



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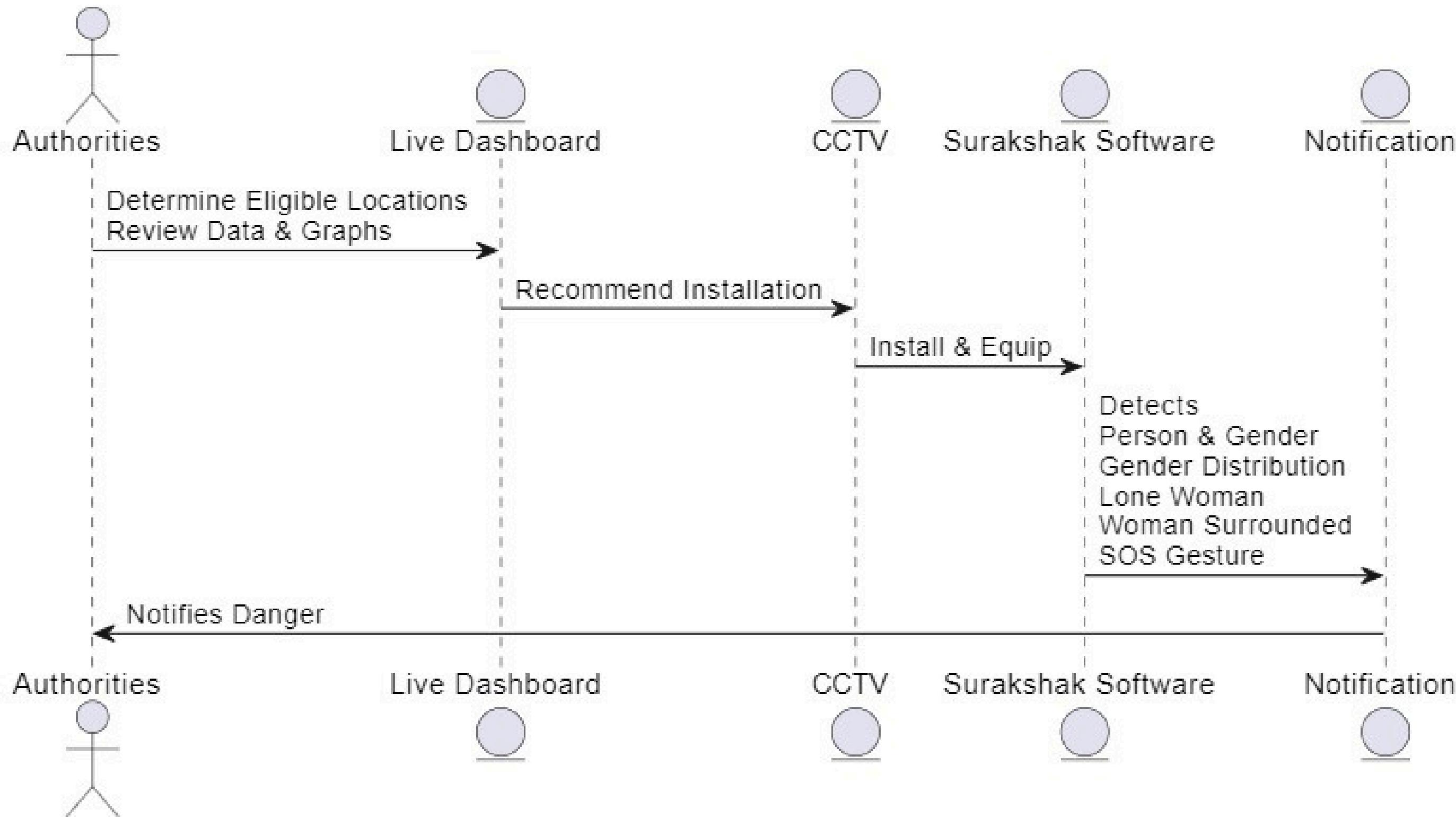
# What Has to Be Done

- 1 Implement Real-Time Monitoring
- 2 Adopt AI-Driven Analytics
- 3 Develop Proactive Alert Systems
- 4 Focus on High-Risk Areas
- 5 Promote Public Awareness & Trust

# Our Approach

- Develop an Authority-Centric Software
- Real-Time Monitoring & Alerts
- Hotspot Identification
- SOS Gesture Recognition
- Gender Distribution Analysis and Lone Women Detection

# Sequence Diagram

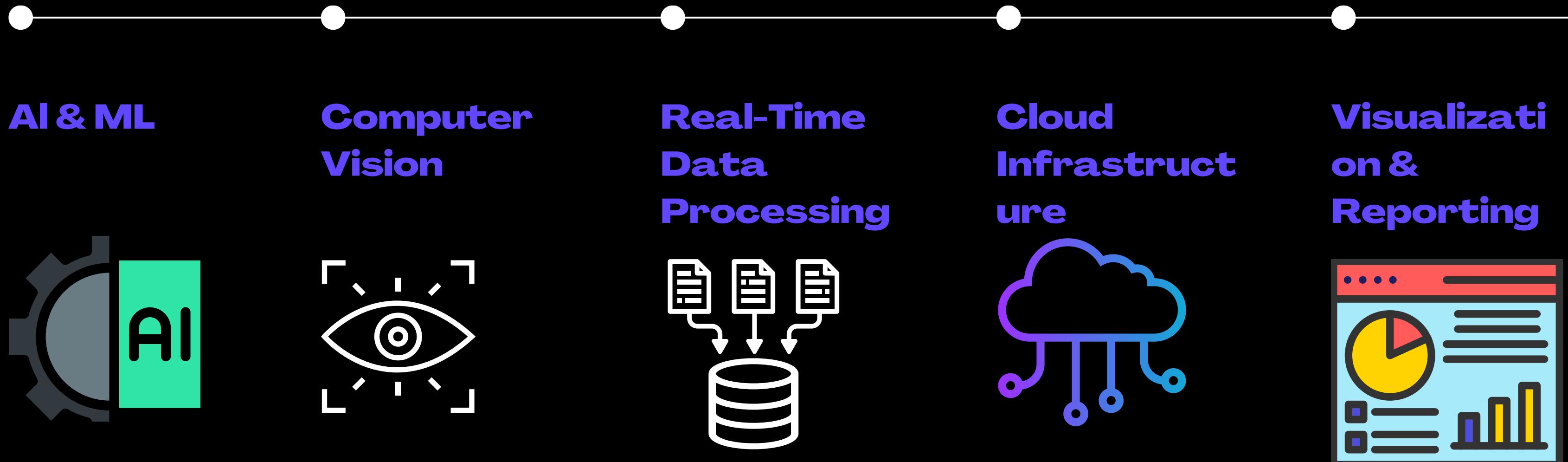


# Models Used

- **Gender Classification Model** - This model uses advanced machine learning algorithms to accurately determine the gender of individuals captured in video footage. By analyzing facial features, body shape, and other relevant attributes, the model can differentiate between men and women in real-time.
- **Gender Distribution Model** - The Gender Distribution Model is designed to provide insights into the number of men and women present in a specific location at any given time. By continuously analyzing video footage, the model generates data on gender ratios, which can be crucial for identifying patterns that may indicate unsafe conditions for women.
- **Emergency Gesture Detection** - The Emergency Gesture Detection Model enhances the Women Safety Analytics system by recognizing specific gestures that indicate distress or the need for help. Using advanced pattern recognition and machine learning, this model can identify gestures like raised hands, waving, or other movements commonly associated with SOS situations.



# What Are We Using - Tools





**“The measure of any  
society is how it treats  
its women and girls.”**

**— Michelle Obama**