

# **SYNOPSIS**

*on*

**NyayaGhost: Disguised domestic violence safety and legal agent**

**Project Based Learning -V (22AI014)**

*Submitted by*

**Jashkarn Singh (2310993841-5A)**

**Jatin Kumar(2310993844-5A)**

**Semester: 5**



**Bachelor of Engineering- Computer Science & Engineering  
(Artificial Intelligence)**

*Guided by*

**Dr. Harshvardhan**

**CHITKARA UNIVERSITY INSITUTE OF ENGINEERING & TECHNOLOGY**

**CHITKARA UNIVERSITY, RAJPURA**

**JULY 2025**

## 1. INTRODUCTION

One of the most undocumented and common abuses in India continues to be domestic violence. The females (victims) usually live in a situation where there is always a form of continuous monitoring and terror, and social disgrace which denies them a chance to get help. Traditional safety applications, and lines, do not provide the situational awareness, judgment and flexibility needed in these high-risk settings. NyayaGhost is an Agentic AI system that functions as a covert companion, and it is specifically tailored to the victims of domestic abuse. It also gives users the strength of involving an offending interface that can allow them to activate emergency notifications, gather and preserve lawful evidence, and get tailored legal assistance all without drawing attention.

**"In silence, let justice speak — an agent that hides, protects, and empowers."**

## 2. PROBLEM FORMULATION

There is availability of NGOs, however, still have a number of main challenges:

- The victims are always afraid of being spied by asking directly.
- Not much is known as to legal rights of someone undergoing abuse.
- Evidence of abuse is also difficult to gather effectively.
- Emergency apps are typically not covered up and can notify abuser.

In this way, one can state the problem as:

"How can we build a disguised agentic system that allows domestic violence victims in India to request help, gather evidence, and access legal rights — without endangering themselves?"

## 3. METHODOLOGY

NyayaGhost is a disguised agentic AI platform with an offering of:

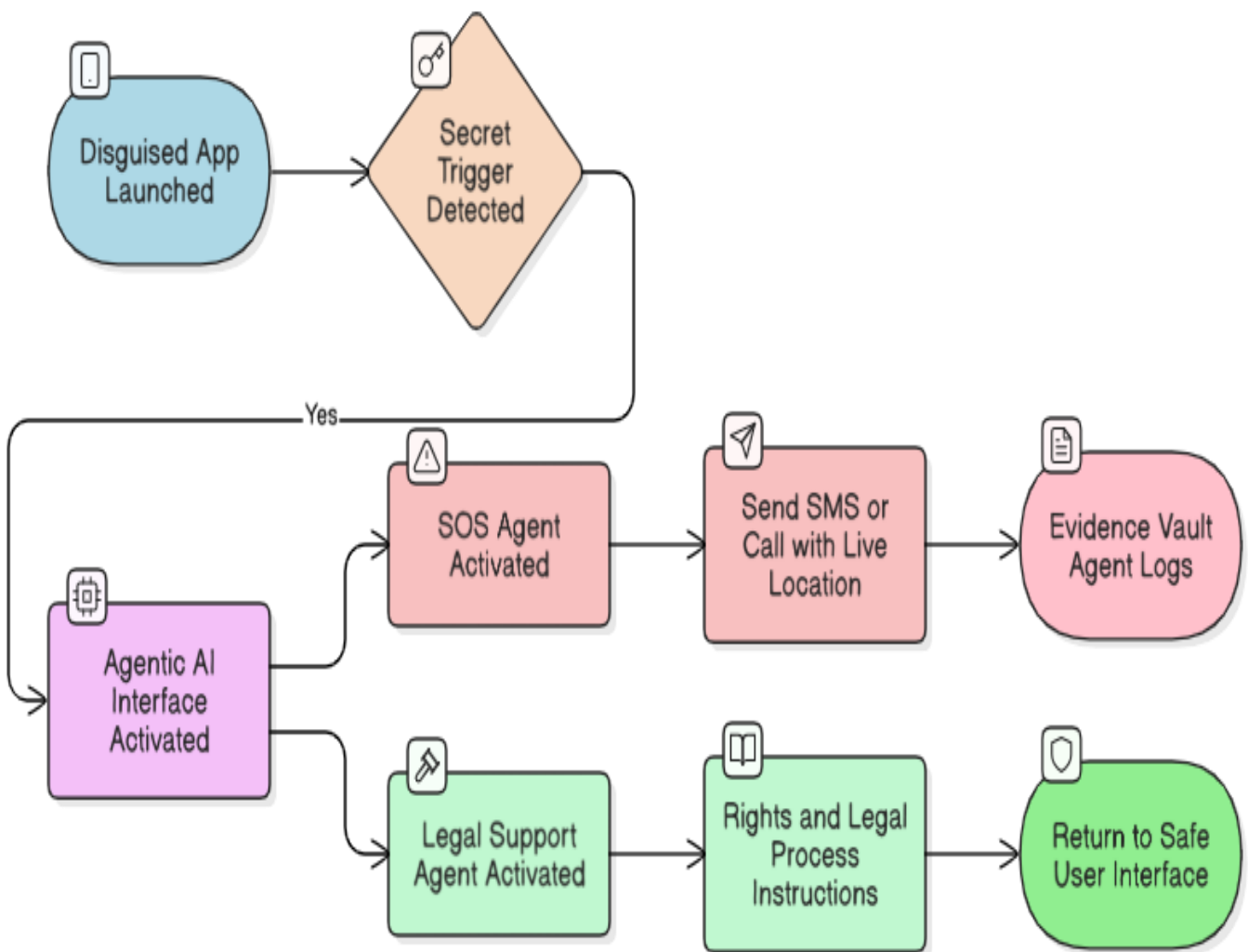
- Disguised UI: The application will look like a standard harmless.
- SOS Emergency Alerts: Automatically transmits messages and location.

- **Agentic Legal Chatbot:** Chatbot that is trained on the Indian laws related to Domestic violence (DV Act 2005, IPC Sections 498A, 354, etc) and that helps the user.
- **Evidence Collection Vault:** These can be used subsequently in cases of legal purposes.






## Technology Stack:

- **Frontend:** React Native / Flutter or ReactJS
- **AI/Chatbot:** LLM (e.g., Gemini Pro or open-source models) with Indian legal dataset via RAG
- **Storage:** Encrypted SQLite or local storage + optional Supabase backend
- **Emergency Services:** Twilio/Call/SMS APIs with geolocation tracking

## 4. FLOWCHART



## 5. REFERENCES

- **Protection of Women from Domestic Violence Act, 2005 (PWDVA)**  
*Ministry of Women and Child Development, Government of India*  
 [wcd.nic.in/act/2313](http://wcd.nic.in/act/2313)
- **Indian Penal Code – Sections on Domestic Violence**  
*498A, 304B, Dowry Prohibition Act*  
 [indiacode.nic.in](http://indiacode.nic.in)
- **Lewis et al., 2020 – Retrieval-Augmented Generation (RAG)**  
*Enhancing legal chatbots using RAG for knowledge retrieval*  
 [arxiv.org/abs/2005.11401](https://arxiv.org/abs/2005.11401)
- **Stanford HAI, 2023 – Understanding Agentic AI**  
*Explores AI that acts independently with human-aligned goals*  
 [hai.stanford.edu/news/what-agentic-ai](https://hai.stanford.edu/news/what-agentic-ai)
- **Twilio Developer Docs – SMS, Call & Location APIs**  
*Emergency alert integrations for mobile/web platforms*  
 [www.twilio.com/docs](https://www.twilio.com/docs)