



CODECELL-CMPN,VESIT

SYRUS HACKATHON 2025

Category Code: Open Innovation

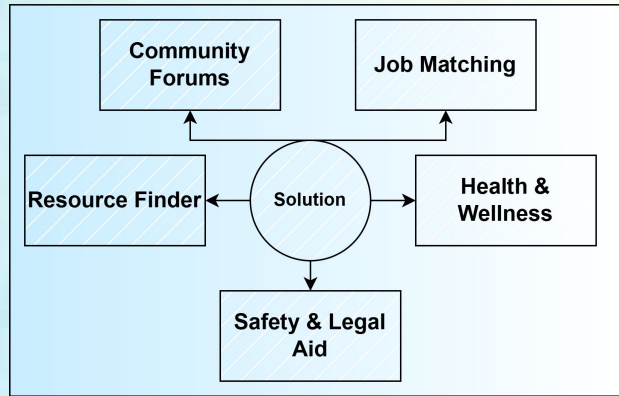
Problem Statement Title: Empowering Women Through a Centralized Digital Platform

Team Name: \$ git commit -m "issues"

Institute Name: Vivekanand Education Society's Institute of Technology



Idea / Approach details (& implemented features)



Astitva is an AI-driven platform empowering women by providing:

- **Community Forums** – A safe space for discussions on career, health, safety, and legal matters.
- **Job Matching** – AI-powered job recommendations for women-friendly workplaces.
- **Health & Wellness** – Mental health support, cycle tracker, and well-being resources.
- **Safety & Legal Aid** – Emergency alerts, self-defense tips, and legal guidance.
- **Resource Finder** – Geolocation-based access to verified shelters, clinics, and legal support.

Target Audience

- 🎯 Women seeking jobs & financial independence
- 🎯 Survivors of abuse needing safety & legal help
- 🎯 Women requiring mental & physical health support
- 🎯 Young professionals & students
- 🎯 NGOs & organizations supporting women's empowerment



What We Have Implemented ?

① Job Marketplace

A dedicated platform offering women-friendly job listings with search, filters, and category-based postings. Users can apply for jobs, save listings, and access career growth resources.

② Health & Wellness Dashboard

- **Body Analysis:** Calculates BMI and assesses health risks.
- **Cycle Tracker:** Predicts menstrual cycles based on user inputs.
- **Hydration Tracker:** Monitors daily water intake with progress indicators.
- **Symptom Tracker:** Logs health symptoms like headaches, cramps, and fatigue.
- **Activity Tracker:** Tracks daily and weekly steps with visual analytics.

③ Community & Resource Finder

- **Discussion Forums:** Space for knowledge sharing and networking.
- **Legal Aid & Emergency Contacts:** Quick access to legal assistance and essential contacts.
- **Geolocation-based Safety Resources:** Helps locate nearby shelters, medical centers, and legal aid services.

④ Security & Authentication

- **Firebase Authentication:** Secure login using email/password & Google Sign-In.
- **Encrypted Communication:** Ensures user privacy and protection, critical for sensitive discussions.

⑤ AI Chatbot

Powered by **Gemini AI**, offering instant, accurate responses to legal, health, and career-related queries.



Innovation & Tech Stack



Astitva is an all-in-one platform empowering women by integrating safety, employment, health, and community support.

- ◆ AI-Powered Chatbot – Built with Gemini AI, offering 90% accurate responses to legal, health, and career queries.
- ◆ Job Finder – Helps women find jobs tailored to their skills, preferences, and work conditions (remote, part-time, women-friendly workplaces).
- ◆ Encrypted Privacy – Ensures secure communication with end-to-end encryption and IP masking for sensitive issues like domestic violence.
- ◆ Real-time Mapping – OpenStreetMap integration provides real-time access to 200+ essential resources in 5 cities.



Architecture



System Architecture of Astitva



Frontend (Client-Side)

Built with React.js for a seamless user experience.

Tailwind CSS & Material UI for an intuitive and accessible UI.



AI & Data Processing

Gemini AI-powered Chatbot for instant responses on health, legal aid, and career queries.

ML Models analyze user data for personalized job & wellness recommendations.



Security & Privacy

End-to-End Encryption for private and anonymous communication.

IP Masking ensures user safety in high-risk situations.



Third-Party Integrations

OpenStreetMap for geolocation-based emergency services.



Future Scope

Future Scope of Astitva



AI & Personalization

- Enhance AI chatbot with advanced NLP for more precise legal, health, and career guidance.
- Personalized dashboards based on user behavior and preferences.



Expanded Job Opportunities

- Integrate AI-driven job recommendations for tailored career opportunities.
- Collaborate with women-focused organizations for better employment support.



Geographical Expansion

- Scale resource mapping to more cities & rural areas for wider accessibility.
- Multi-language support for diverse user groups.

