

SKP Engineering College

Team Name: Tech Kids

SafeTrip AI



Smart Tourist Safety and Emergency Response System

Developing an intelligent system to enhance tourist safety in unfamiliar places through real-time support and AI-based risk detection.

The Problem: Tourists in Peril



Getting Lost

Tourists often struggle with navigation in unknown locations.



Medical Emergencies

Unexpected health issues can be critical, especially abroad.



Theft & Unsafe Situations

Vulnerability to crime and dangerous environments.

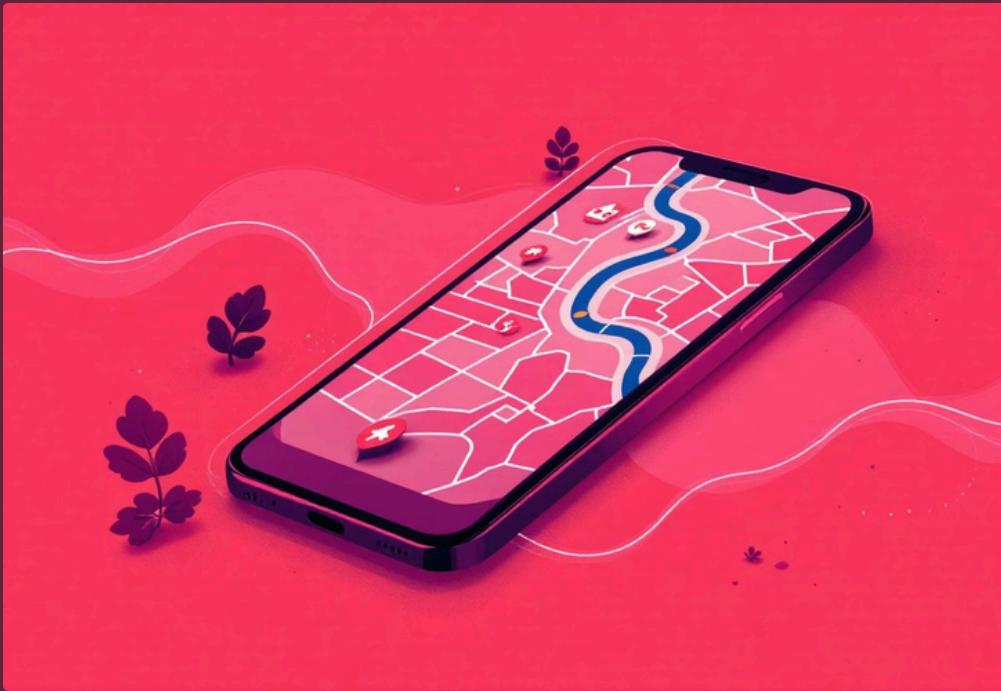


Language Barriers

Difficulty asking for help due to communication challenges.

In emergencies, time is critical, but tourists lack quick access to help.

Our Solution: SafeTrip AI



We propose a Smart Tourist Safety and Emergency System that uses AI and Machine Learning to protect travelers in real time.

One-tap SOS button for instant alerts.

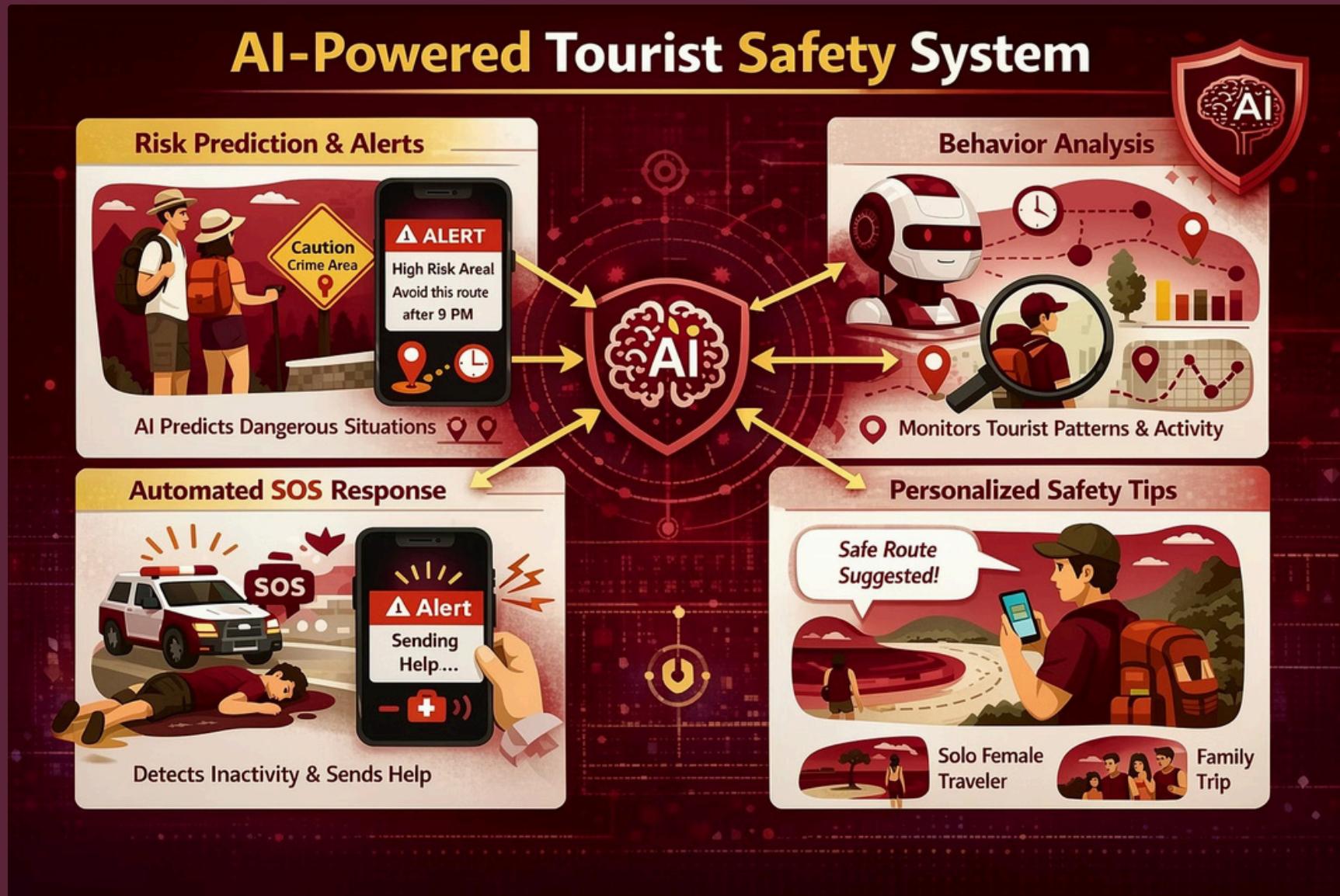
ML identifies unsafe areas based on location and risk data.

AI detects unusual movements and dangerous situations.

Helps find nearby emergency services.

Supports language translation for easy communication.

AI-Powered Tourist Safety System



Smart Features: Instant Support



One-Tap Emergency Button (SOS)

Sends live GPS, user details, and emergency type to police, contacts, and services.



Live Location Tracking

Tracks tourist location (with permission); family/friends can monitor during travel.



Nearby Emergency Services

Shows nearest hospitals, police, pharmacies, and embassies with directions and contact info.

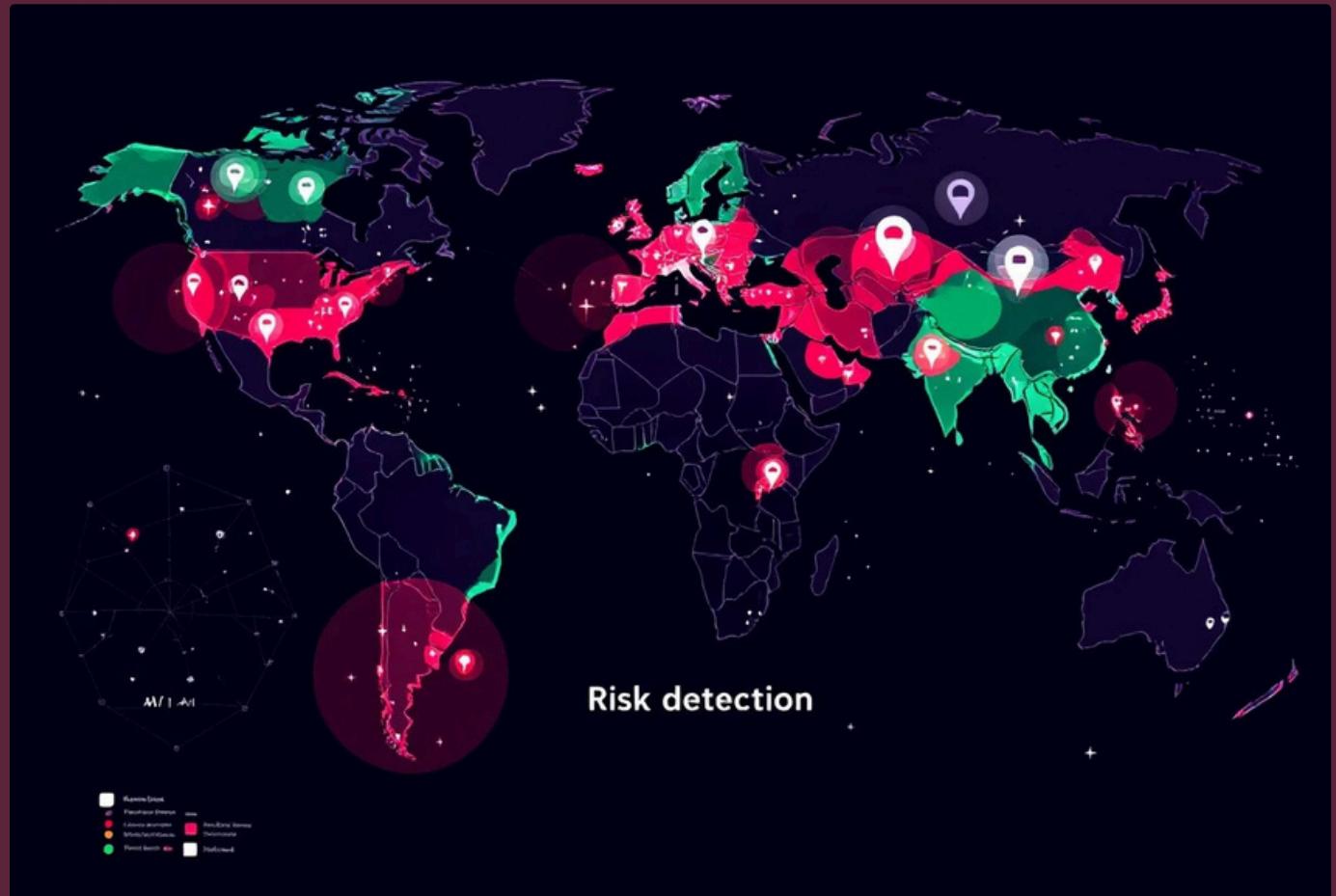
AI-Powered Protection

AI-Based Risk Detection

System detects danger using:

- Sudden abnormal movement (running, falling).
- Entering high-crime areas (based on data).
- No movement for a long time (possible accident).

AI sends automatic alerts if suspicious activity is detected.



Comparison: Tourist Safety Apps vs. AI-Powered Tourist Safety System



Tourist Safety Apps (Reactive)



SOS Button Alerts



Emergency Contacts



Static Alerts

USES
AI & ML



Limited to panic button and emergency numbers



Static alerts, without context awareness



Reactive—only responds after danger occurs

AI-Powered Tourist Safety System



Risk Prediction & Alerts



Behavior Analysis



Personalized Safety & AI Guide



Predicts and warns about safety risks



Analyzes context to guide safer actions



Prevents danger intelligently using AI & ML

Seamless Communication & Information



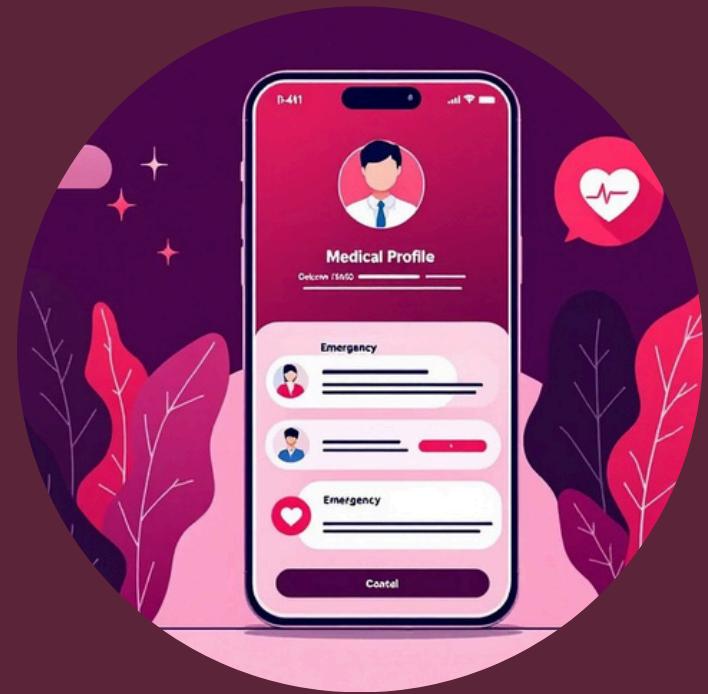
Offline Emergency Info

Access stored emergency numbers and basic safety instructions even without internet.



Multi-Language Help

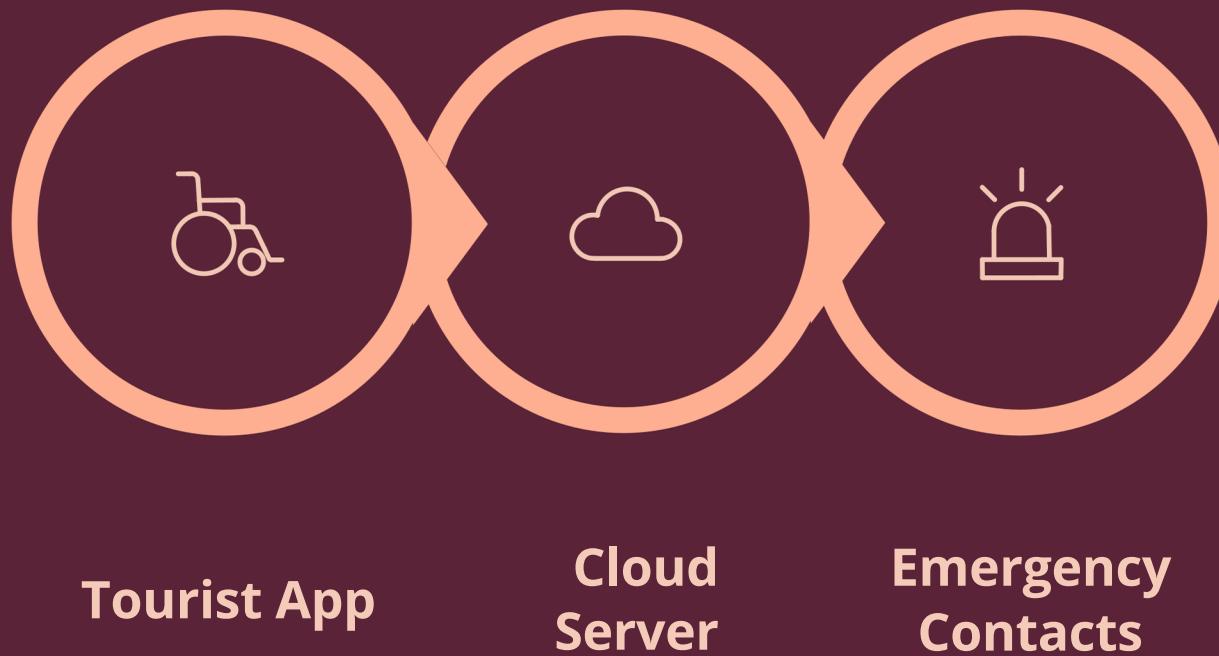
App translates emergency messages into local languages for authorities.



Digital Tourist Profile

Stores critical info like blood group, allergies, and emergency contacts for quick responder access.

System Architecture: A Simple Flow



The app collects GPS and user input, sends data to a cloud database, and an alert system notifies police, hospitals, and family. An admin dashboard monitors active emergencies.

Innovation: Beyond Reactive Safety

Our innovation combines AI, ML, and real-time location to create a proactive safety system. Unlike regular emergency apps, SafeTrip AI can predict and detect danger before it becomes serious.

- ML analyzes location data and risk-zone info to warn tourists.
- AI monitors movement patterns, triggering alerts for unusual activity.
- Automatic sharing of live location and details with emergency services.
- AI-powered language translation for communication.





AI-Powered Tourist Safety System

Next-Gen vs Existing Apps



AI-Powered Tourist Safety System

- ✓ Predicts Risks & Provides Safe Routes



- ✓ Monitors Tourist Behavior in Real-Time



- ✓ Automatic Intelligent SOS Response

- ✓ Smart Safety Tips Based on Profile

- ✓ Only React After Emergencies Occur



✓ Proactive ✓ Predictive

VS

Existing Tourist Safety Apps

- ✗ Only React After Emergencies Occur



- ✗ Limited to Basic Location Sharing



- ✗ Manual SOS Button for Emergencies

Static Emergency Contacts List

- ✗ Reactive Basic



- ✗ Solo Female Traveler



✗ Reactive • ✗ Basic

Unique Value Proposition



Proactive Safety

AI/ML predicts, detects, and responds to danger automatically, not just reactively.



Intelligent Monitoring

Identifies unsafe locations and monitors unusual movements to trigger alerts.



Integrated Support

Combines live tracking, instant alerts, and multi-language communication in one platform.

SafeTrip AI acts as a smart digital safety companion, offering preventive protection and fast emergency response.

SDG Connection: Building a Safer World



SDG 9: Industry, Innovation & Infrastructure

Uses AI, ML, and smart tech to build innovative digital safety infrastructure for tourism.



SDG 11: Sustainable Cities & Communities

Improves tourist safety and emergency response, creating safer cities for visitors and residents.



SDG 16: Peace, Justice & Strong Institutions

Supports better coordination with police and emergency services, promoting public safety and security.

Key Benefits & Impact

SafeTrip AI delivers critical advantages for both travelers and the tourism industry, fostering a safer, more reliable travel experience.

80%

Reduced Response Time

Streamlined emergency protocols cut down response time significantly, improving outcomes.

Saves Lives

Real-time alerts and rapid coordination with local services ensure immediate help in critical situations.

Protects Vulnerable Travelers

AI-driven risk detection and proactive support safeguard those most susceptible to dangers abroad.

Builds Tourism Trust

A demonstrably safer environment encourages travel and strengthens confidence in destinations.

Conclusion

SafeExploration: The New Standard

Intelligent Safety, Uninterrupted Journeys

SafeTrip AI directly addresses the inherent risks of travel with its advanced features: an instant **SOS button**, proactive **AI-driven risk detection**, and direct **integration with local emergency services**. This ensures travelers receive rapid, intelligent assistance precisely when it's needed most.

Empowering Travelers, Enhancing Global Tourism

By providing a new standard of safety, SafeTrip AI fosters greater confidence for every traveler, making exploration more accessible and worry-free. For the tourism industry, it cultivates trust and encourages sustainable growth in destinations worldwide.

A Future of Boundless Discovery

We've established a foundation for a safer world, where every journey is protected. SafeTrip AI is not just a tool; it's a commitment to ensuring peace of mind on every adventure, everywhere. Your safety is our mission, empowering a future of truly boundless discovery.

Thank You

We appreciate your attention and engagement throughout this presentation.

Questions?

We're happy to answer any questions you may have about SafeTrip AI.