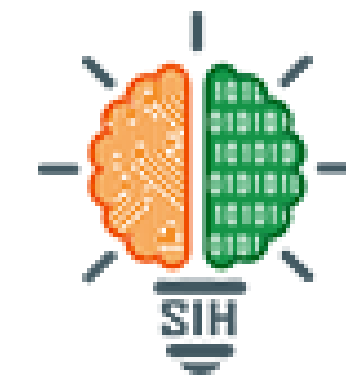


SMART INDIA HACKATHON 2025



SMART INDIA
HACKATHON
2025

- **Problem Statement ID- SIH25002**
- **Problem Statement Title- Smart Tourist Safety Monitoring & Incident Response System using AI, Geo-Fencing, and Blockchain-based Digital ID**
- **Theme- Travel & Tourism**
- **PS Category- Software**
- **Team ID-**
- **Team Name-Team Prometheus**





GUARDIAN GO

Backend & AI

Real-time APIs, anomaly detection

Police Dashboard

Real-time map, alert feed

Tourist Mobile App

Live GPS, panic button, alerts

REAL-TIME, PRIVACY-FIRST SAFETY ECOSYSTEM FOR TOURIST USING MOBILE, AI, GEO-FENCING & TAMPER-PROOF ID

Security & Privacy

End-to-end encryption, data minimization

Tourist Safety Concerns

Tourists face safety risks

Digital Tourist ID

Issue temporary digital identification

Enhanced Tourist Safety

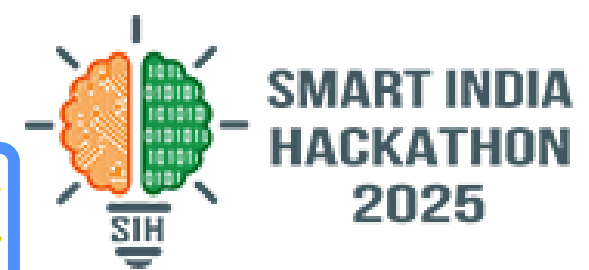
Tourists are safer and protected

GEO-FENCING FOR PREVENTION

IMMEDIATE PANIC & ANOMALY ALERTS PUSH

HEATMAP GUIDE RESOURCE ALLOCATION

WORKS IN REMOTE AREA



HOW IT ADDRESSES THE PROBLEM

Hybrid trust model

Fast centralized DB for real-time data + blockchain hashes for immutable proof (best of both worlds)

Hackathon-ready MVP

Core safety loop (Register → Track → Alert → Respond) demonstrable in 1 month, blockchain as a showcase add-on



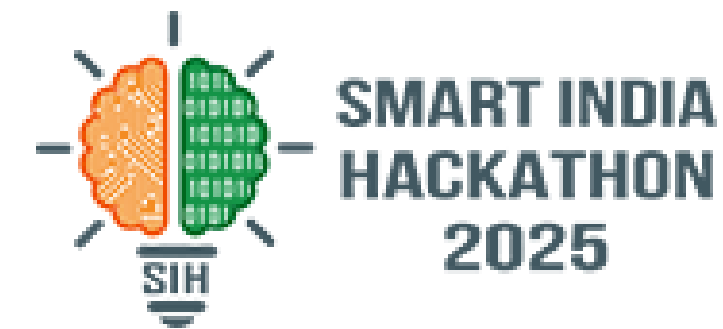
Inclusive features

Multilingual voice SOS, elderly-friendly user interface, opt-in family tracking for privacy.

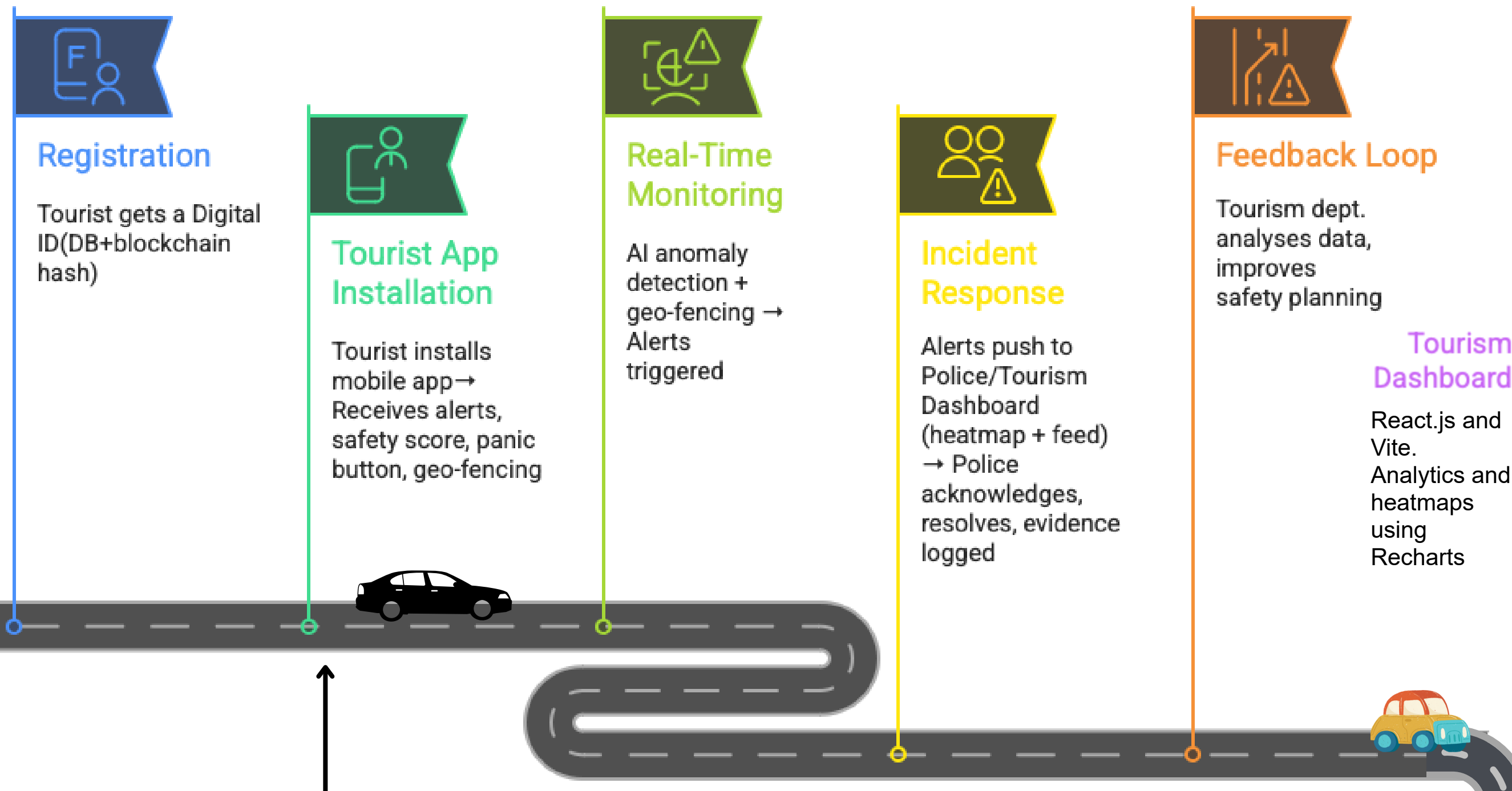
INNOVATION AND UNIQUENESS OF THE SOLUTION

TECHNICAL APPROACH

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TECHNOLOGIES USED



METHODOLOGY AND PROCESS FOR IMPLEMENTATION

Map Integration

Mapbox integration for interactive maps.

Mobile App Frontend

Cross-platform development using React Native.

Tourism Dashboard

React.js and Vite. Analytics and heatmaps using Recharts

SOS Notifications

Firebase Push Notifications for sending alerts
Multilingual support using i18n libraries

AI /ML Integration

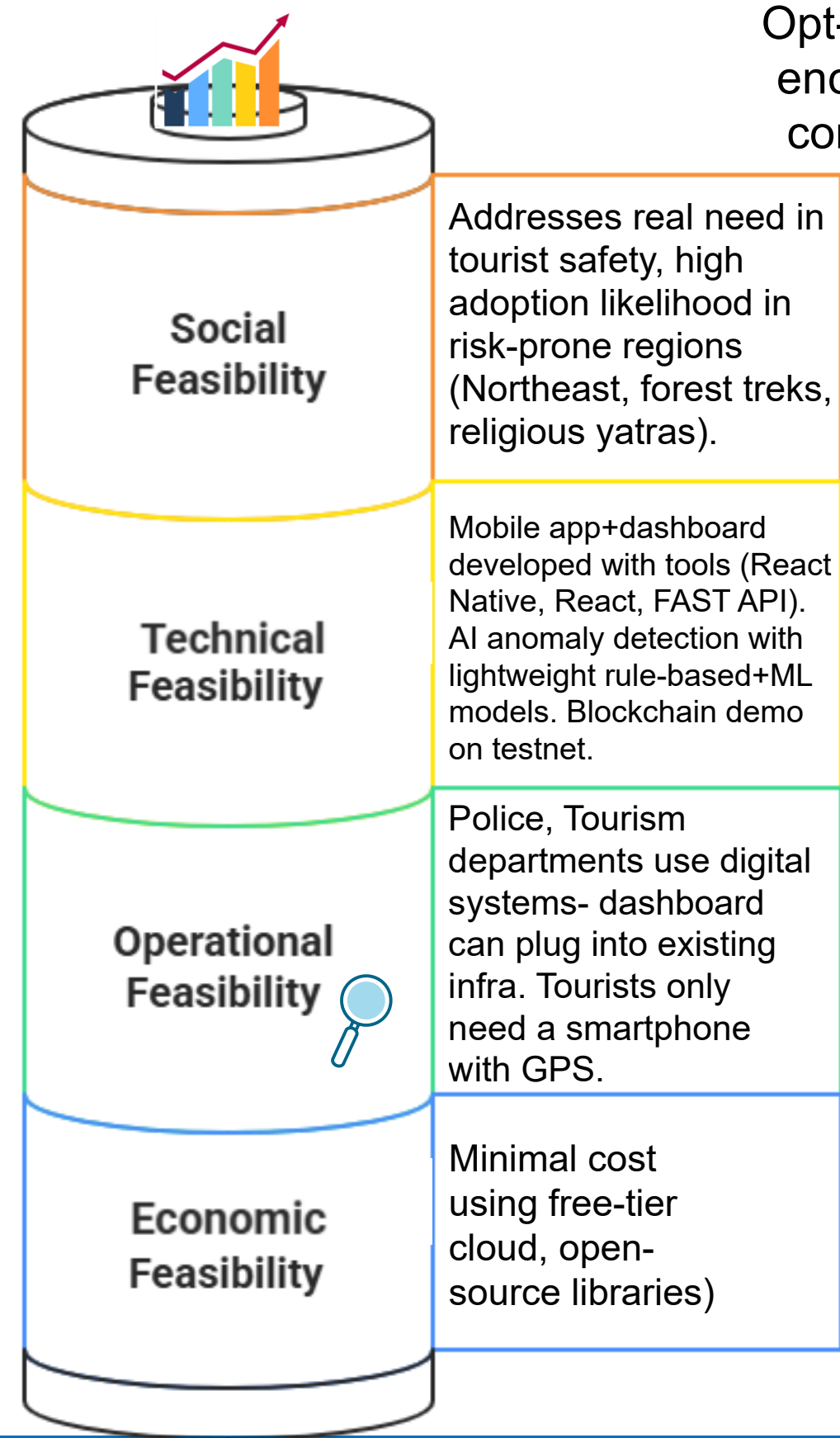
Anomaly detection and geofencing using scikit-learn & TensorFlow Lite.

Backend and APIs

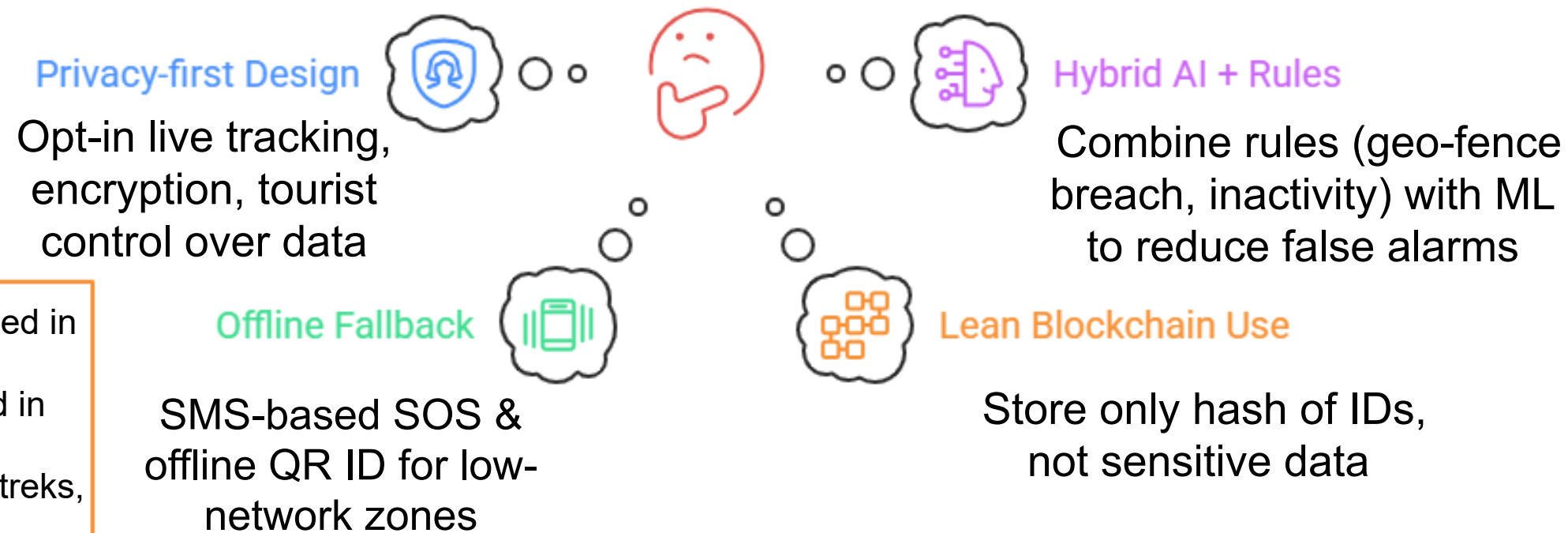
FastAPI and PostgreSQL for storing tourist and alert records



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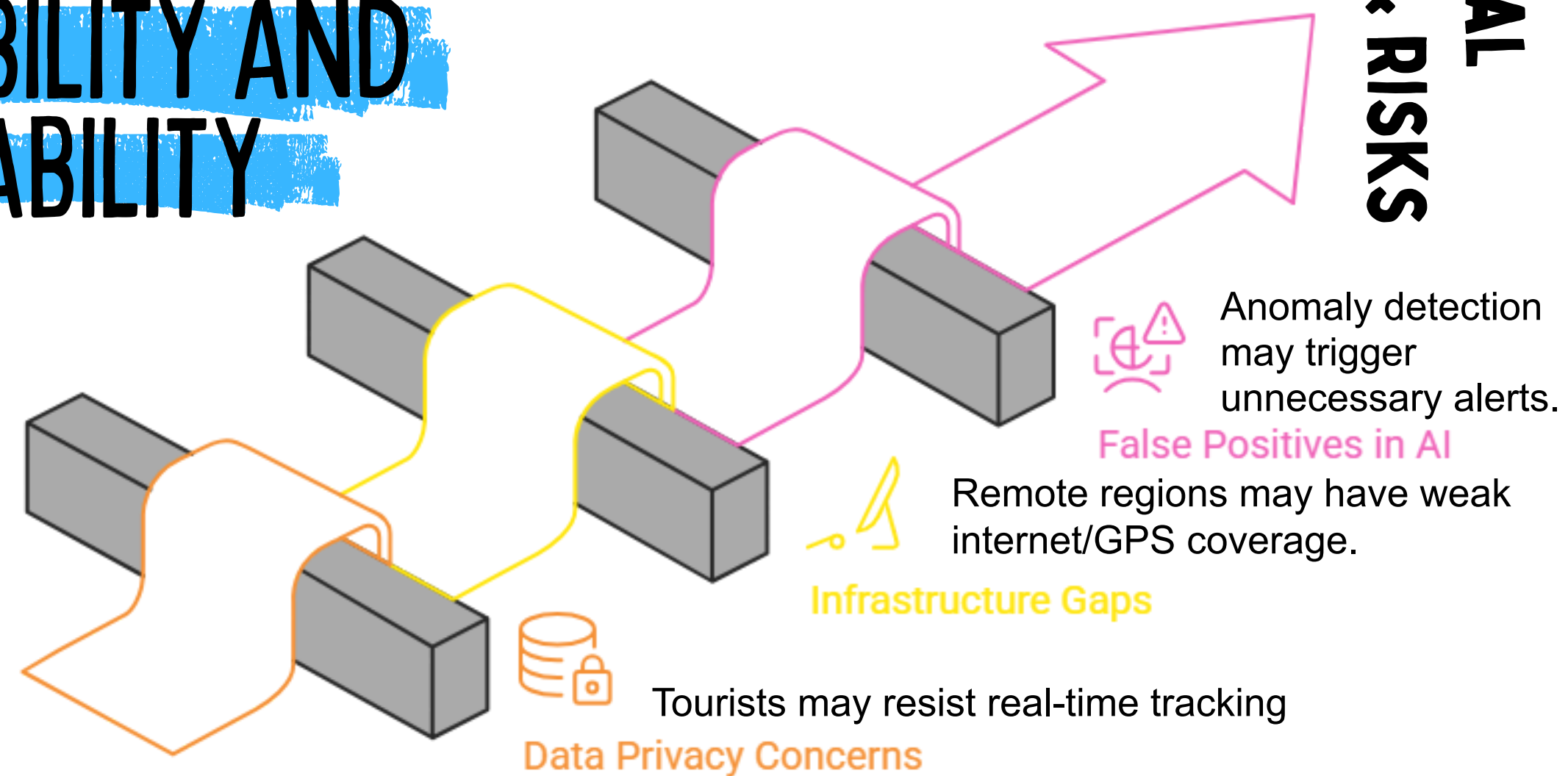


STRATEGIES FOR OVERCOMING THE CHALLENGES



POTENTIAL CHALLENGE & RISKS

FEASIBILITY AND VIABILITY



IMPACT AND BENEFITS

BENEFITS



Social Benefits

Inclusive design → multilingual + accessible features for elderly & differently-abled.

Improved safety & security for domestic and international tourists.

Stronger trust between tourists and authorities.

Economic Benefits

Increased tourist inflow = higher local business revenue.

Lower policing cost per incident due to smart monitoring.

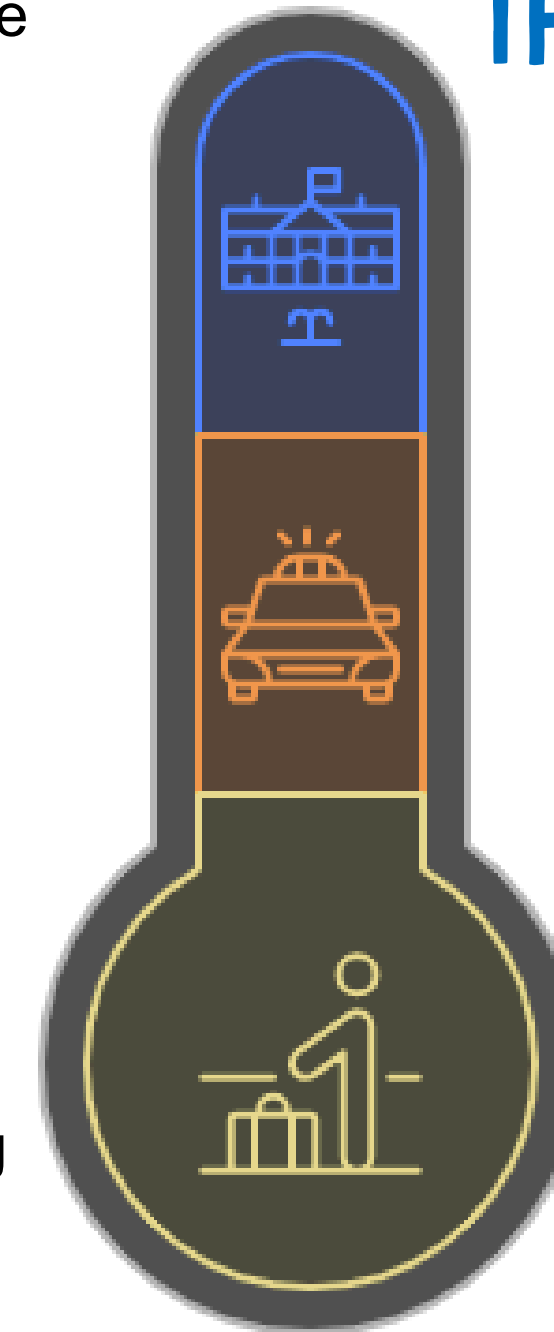
Environmental Benefits

Geo-fencing prevents tourists from entering ecologically fragile or restricted zones

Reduced rescue operations in risky areas = lower environmental disruption.

POTENTIAL IMPACT ON THE TARGET AUDIENCE

Societal



Individual

Government

Safer gravel, quick emergency help, peace of mind for families.

Law Enforcement

Faster response, better allocation of resources, data-driven policing

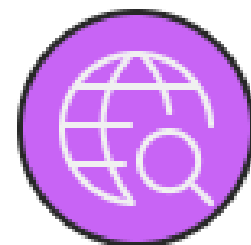
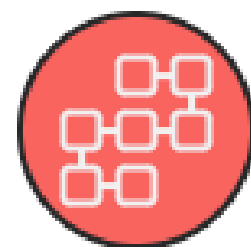
Tourists

Enhances India's image as a safe tourist destination, encourages foreign visits, supports "Digital India" and "Smart Policing" initiatives.

- Ministry of Tourism, Govt. of India — Tourism Statistics 2023
- UNWTO — Tourism and Safety Reports
- National Crime Records Bureau (NCRB) — Crime Against Tourists Data

- WEF Report — Blockchain for Travel & Identity Management
- Hyperledger Fabric Documentation
- Polygon (Ethereum) Identity & KYC Use Cases

- Meghalaya Tourism Department
- Assam Police — Smart Policing Initiatives
- SpringerLink — Smart Tourism and Safety Research Articles



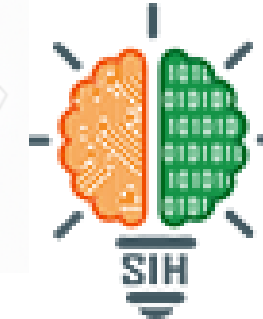
SCAN FOR
APP



RESEARCH AND REFERENCES



SCAN FOR
WEBSITE



- IEEE Xplore — Anomaly Detection in Human Mobility Data
- TensorFlow Lite Documentation
- Scikit-learn — Outlier & Anomaly Detection

- Mapbox Documentation
- Google Maps Platform — Geo-fencing APIs