



Trinetra AI

Team Project Proposal

Crime Mapping and Predicting Policing System



03

Automatic Patrol route generation .
Movement of patrol units.
Women security strengthening with
highway patrol city patrol location
studies.

Problem Statement

01

Interface which links FIR data and generates hotspots of crime depending upon the type. Colour mapping of such regions depending upon different parameter of crime which could be date, time.

02

Behavioural analysis where the behavioural pattern of criminal can be analysed and predicted. Eg-time of the year basis prediction of crime.

Problem

Key Points

- Crime Prediction based on the history of the crimes
- Hotspot mapping (high risk zones of crime)
- Patrol Optimization

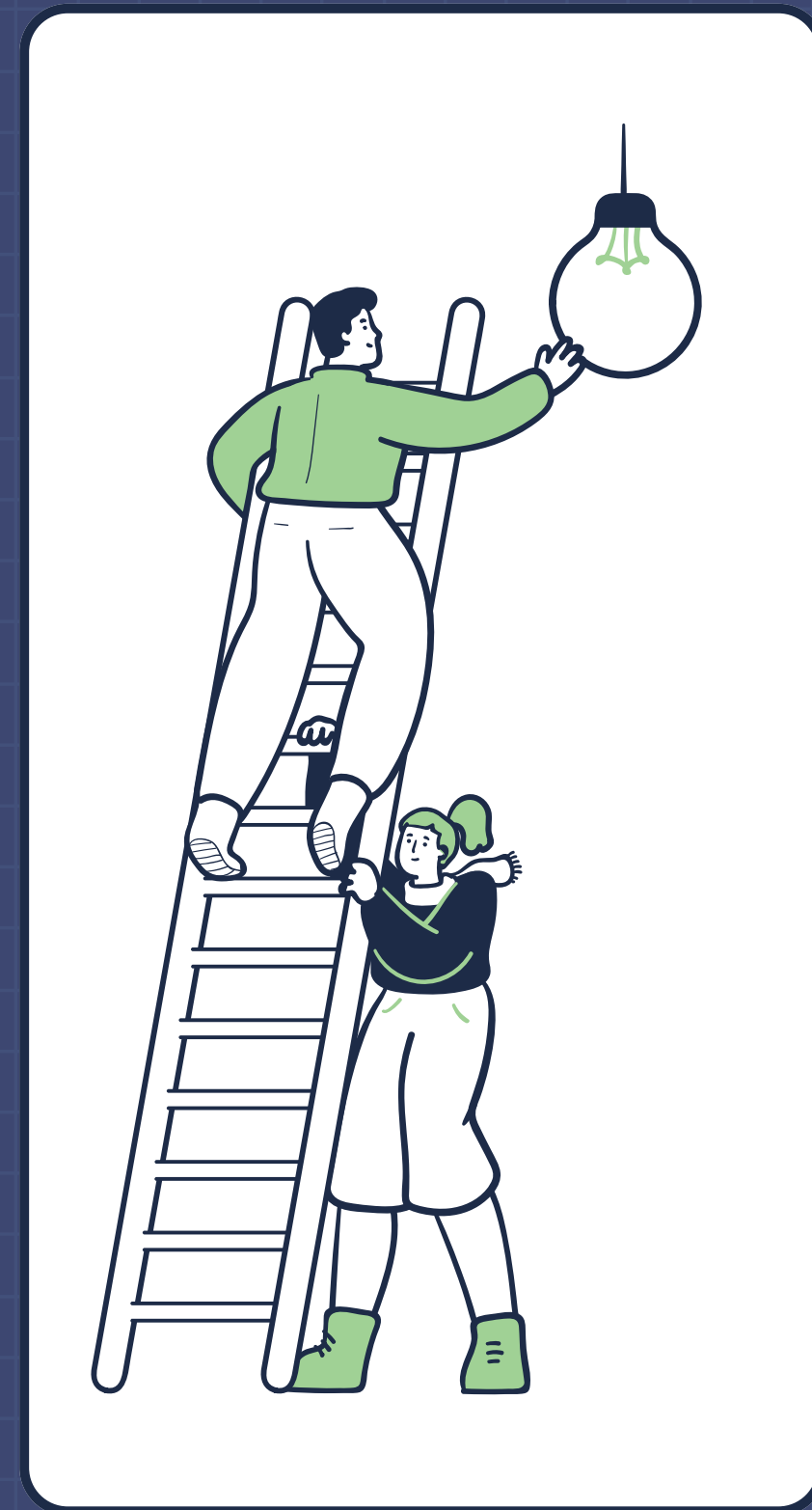


Solution

Trinetra AI

Trinetra AI is a next-generation smart policing solution designed to empower law enforcement agencies with data-driven crime insights, predictive analytics, and proactive patrol planning.

By leveraging FIR data, geospatial heatmaps, and machine learning, the app enables police forces to visualize crime patterns, anticipate future incidents, and respond with strategic precision.



Trinetra AI

- Maps FIRs and Generate Heatmaps (Visualize Crimes)
- Predict future crimes based on Past Crime trends and FIRs.
- Suggest Optimal Patrol Routes.
- Women Safety alert system

KEY FEATURES

Crime HeatMap Generator

Visualize high-frequency crime zones, color-coded heatmaps. Helps police identify crime hotspots and deploy resources effectively.

Crime Trend Analyzer (ML-Powered)

Discover crime patterns over time—by zone, hour, or season. Powered by a machine learning model trained on historical FIRs, this tool predicts:

- Likely crime types
- High-risk areas

Smart Patrol Route Generator

Revolutionize patrolling with AI-recommended routes that focus on current crime zones and predicted hotspots.

KEY FEATURES

Women Safety & Emergency Alert System

Focused on crimes against women, this feature enables:

- Auto-tagging of FIRs based on IPC sections like 354, 376, etc.
- Heatmaps specifically for women-related crimes
- Real-time alerts to police when a zone crosses a set threshold of FIRs
- Dedicated patrol route suggestions to ensure women's safety in sensitive areas

Team



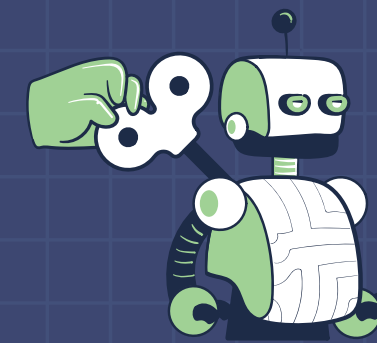
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