

# TRINETRA

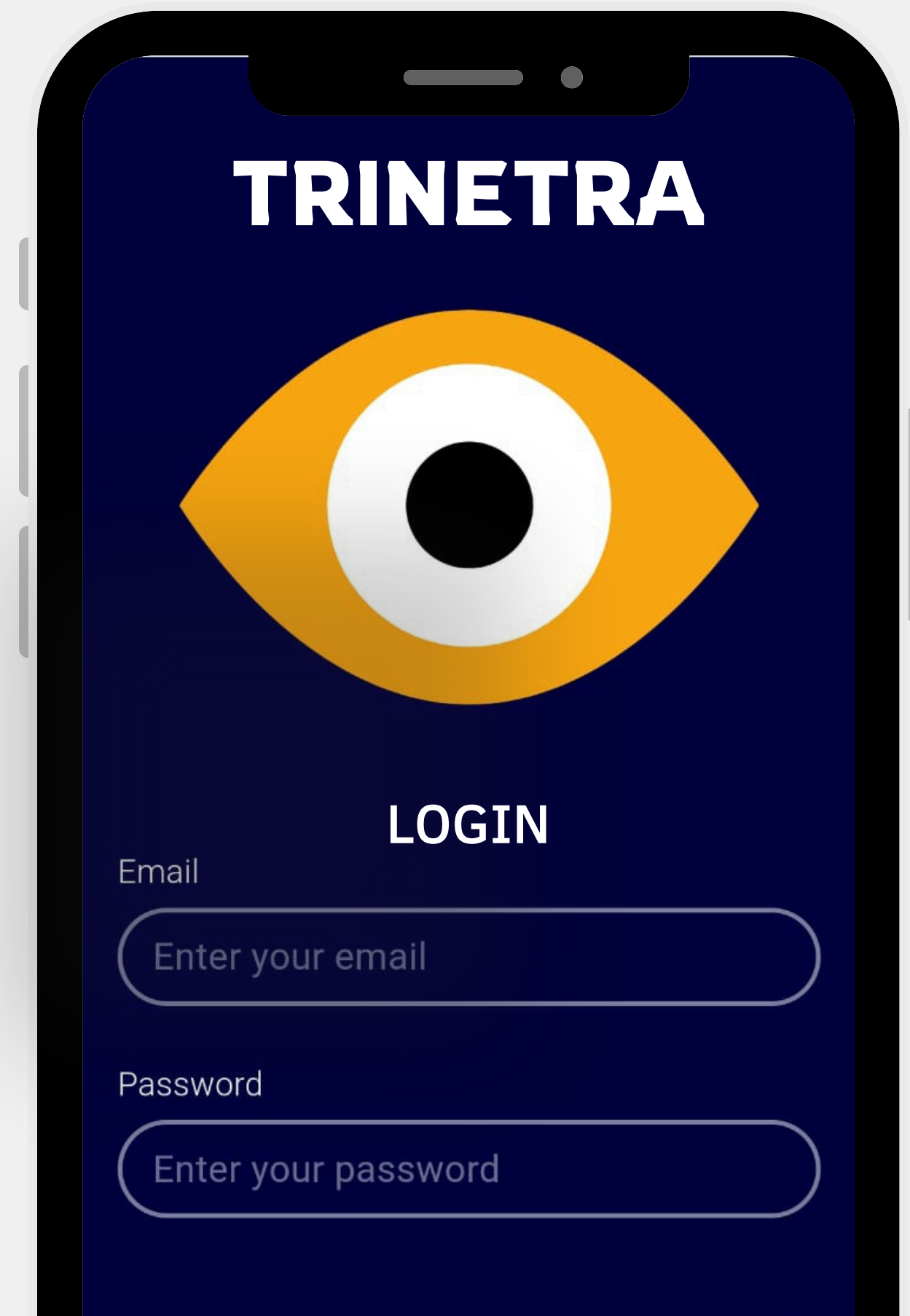
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Event Name: **Odoo X  
Mindbend hackathon**  
Team Name: **Bol-Tech**

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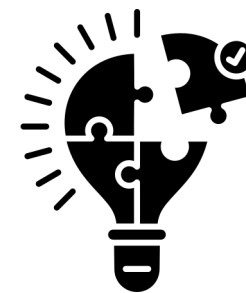
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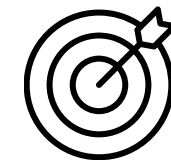
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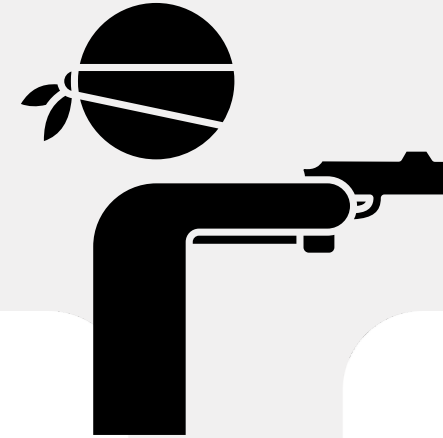
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# Objective



## Statistics & Analysis



## Target Audience

### CRIME STATS

Crime in Delhi up by 22% in 2023 – urgent need for predictive tools

### IMPACT

Rising crimes have led to increased fear, reduced public trust, and strained law enforcement resources.

### NEED

Need for citizen-police tech bridge

### PRIMARY USERS

Police and Citizens

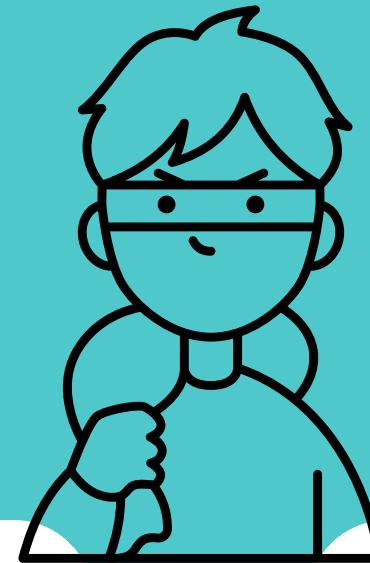
### SECONDARY USERS

NGOs, Government Entities, Research purposes, etc

### MARKET SIZE

More than 20M population; 16 police districts

# Literature Review

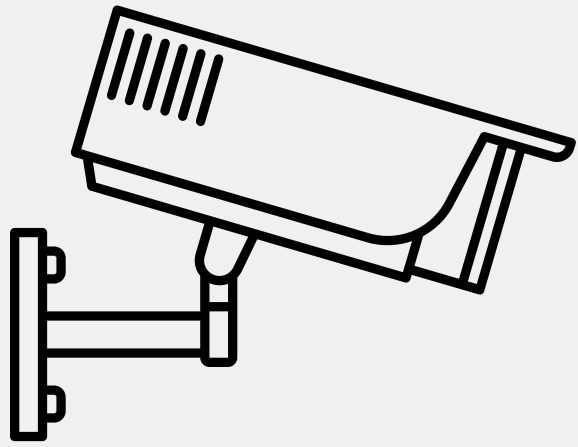


## Description

- Delhi Police Beat App: Limited real-time capability
- Dial 112 Emergency System: No predictive features
- Safe City Project (CCTV): Underutilized due to lack of data integration

## Limitation

- Lack of real-time crime prediction
- Poor integration of citizen data
- Manual patrol planning
- Inefficient CCTV coverage planning
- Delayed response times
- No visual crime trend analytics

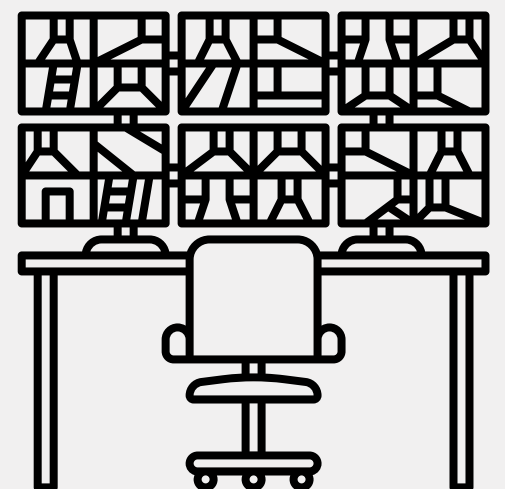


# Our Solution



# TRINETRA

- Unified crime reporting and AI-based prediction platform
- Combines citizen reports, police input & crime analytics
- Provides visual insights, safety scores & patrol optimization
- Available to both Police & Public

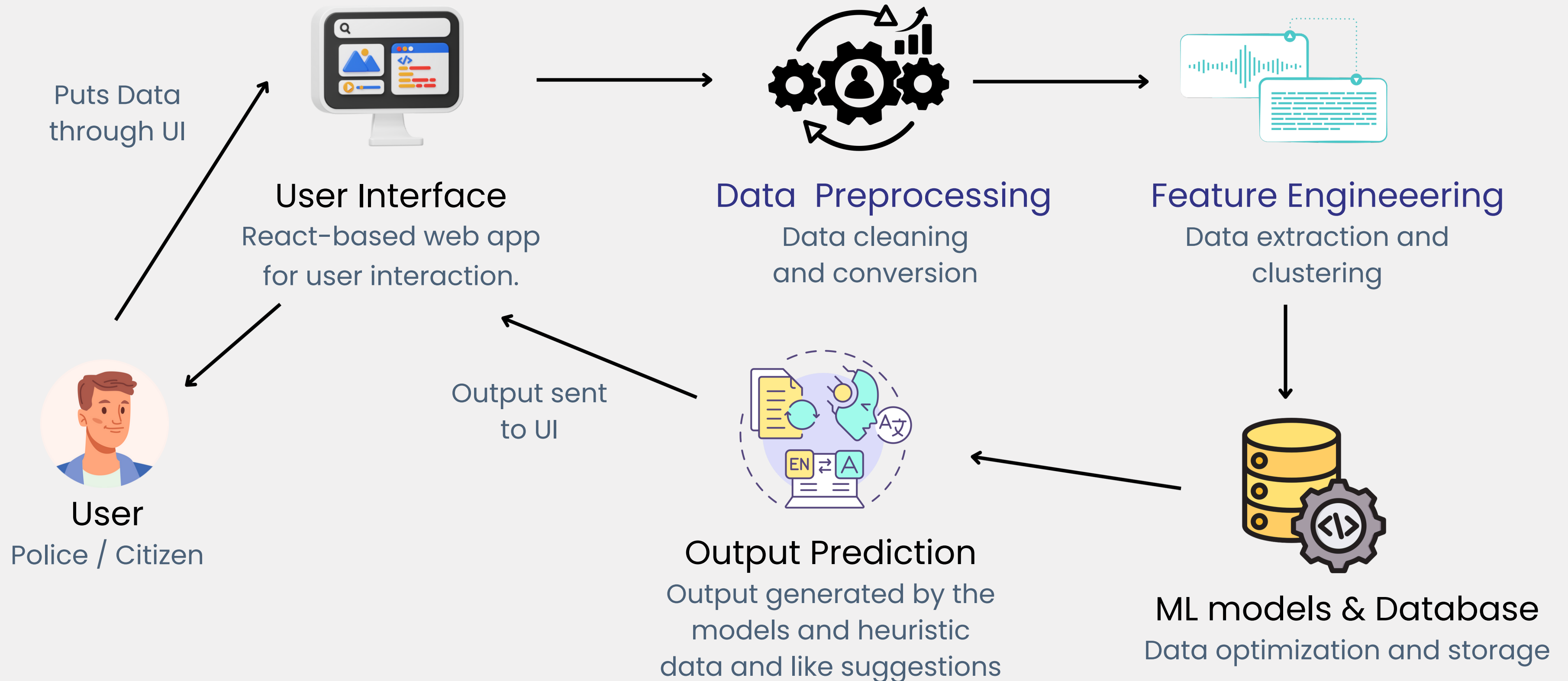


# Features



1. **Platform for both Citizen & Police:** The platform has 2 separate sections one for the citizens and other for the police and authorities.
2. **Crime Heat Maps:** The map shows the frequency and impact of crimes in the locality in real time as the user moves with the current geolocation.
3. **Crime Reporting:** Citizens can report the crimes with all the ease and speed.
4. **Crime Dashboard:** Police and authorities can have better view and access to the real time crime data through the dashboard.
5. **Crime Search:** The police and authorities can search and sort crimes according to their categories and severity.
6. **Crime Sorting:** The different types of crimes can also be sorted based on the current location or by choosing location from the map.
7. **Broadcast Message:** Police and authorities can broadcast urgent messages in the chosen locality for sudden response for providing relief.
8. **Chatbot:** Agile Chatbot to cater user doubts and assist them to use the platform.

# Project Flow





# Benefits



## Real-Time Crime Visualizations and Alerts

Provides dynamic crime maps and instant alerts to authorities and citizens.



## Better Patrol Efficiency

Optimizes patrolling routes using predictive analytics to cover high-risk zones.



## Cost-Effective for Civic Authorities

Reduces dependency on manual surveillance and improves resource allocation.



## Free

Normal features on the application is free



# Revenue Streams



## Licensing

Generate income through partnerships with urban development and smart governance initiatives.

## Subscription Plans

Offer monthly/yearly plans to police departments for using dashboards and ML insights.



## API Usage

Monetize API access for crime heatmaps, alerts, and predictive policing data.



## In-App Purchases

ADDITIONAL AIDS, PREMIUM AWARENESS CONTENT, AND ENTERPRISE TOOLS.

## Grants and Funding

Tap into corporate social responsibility programs and public sector innovation funds.



## Future Enhancements



1. **CCTV Placement Assistant:** AI recommends optimal camera zones for better and faster surveillance.
2. **Crime Report Verification:** Using Deepfake detection mechanisms and other measures, verification of crime reports are possible.
3. **Trust Meter of User and Authorities:** User and Authorities can get trust values as they keep on reporting and verifying the reported crime cases and if they do wrong then they will loose their points.
4. **Shortest Safe Path:** Using the values from heatmaps the Shortest safe Path can be predicted between two places.
5. **Agile Chatbot:** Chatbot can be made more agile and flexible to make it able to cater a wider range of queries.

# Future Goals



## VISION

TO BE THE LEADING AI ASSISTANT FOR CRIME REPORTING, ENHANCING THE QUALITY OF CRIME REPORTS AND ACTIONS REDUCING THE BURDEN ON THE POLICE AND GOVERNMENT ENTITIES.



### SHORT-TERM GOALS

- Integration with Smart City Dashboard: Connect and sync data with existing city infrastructure.
- Multilingual & Voice-Enabled Reporting: Implement regional language and voice support for inclusive access.



### LONG-TERM GOALS

- Real-Time Facial Recognition CCTV Integration: Deploy advanced surveillance features for proactive crime detection.
- Expansion to Tier-2 Cities & Railway Premises: Scale the solution to broader geographies and critical locations.





Thank You

