



Guide :

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INTRODUCTION



Criminal activities remain a significant barrier to public safety and urban development. Traditional crime analysis methods are manual, error-prone, and lack predictive capabilities, making it difficult for law enforcement to proactively identify high-risk areas or respond effectively. There is a pressing need for a data-driven solution that can detect crime hotspots, analyze patterns over time, and forecast future incidents to support smarter, faster crime prevention efforts.



Problem Statement

Existing crime monitoring systems lack real-time hotspot detection, predictive analysis, and interactive visualization. This limits law enforcement's ability to identify critical zones and forecast future incidents accurately, leading to delayed or inefficient response strategies.





Objective

- The aim of the CrimeLens project is to develop a smart, data-driven platform that helps identify, analyze, and predict crime patterns using machine learning and geospatial techniques.
- It seeks to support law enforcement and public safety efforts by transforming raw crime data into actionable insights through clustering, forecasting, and interactive visualization.
- The project aims to provide a user-friendly dashboard for real-time crime data analysis, hotspot detection, and trend forecasting to support effective public safety planning





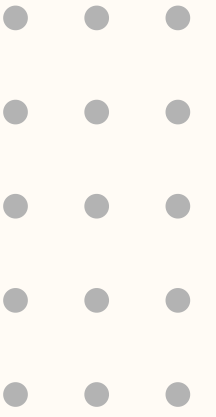
Who Will Use CrimeLens?

- Law Enforcement Agencies
- City Planners & Government Officials
- Researchers & Analysts
- Public Safety NGOs & Journalists

How Is It Currently Done?

- Based on manual reports, spreadsheets, and NCRB PDFs
- Reactive – crime is analyzed after incidents occur
- No interactive visualization or prediction tools

Base Paper



- Multi-density crime predictor: an approach to forecast criminal activities in multi-density crime hotspots

<https://doi.org/10.1186/s40537-024-00935-4>



Completed

Pending

PROJECT PHASE - I

0th Review



Problem Analysis

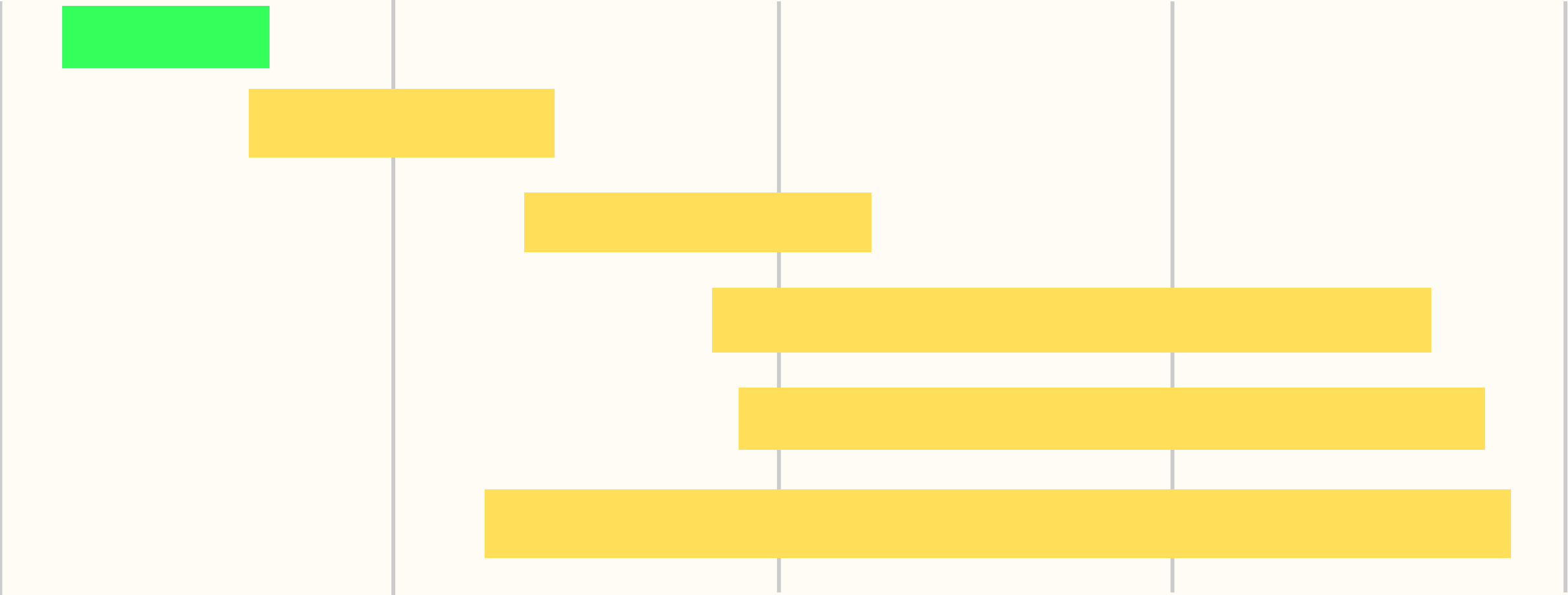
Literature survey

System Design

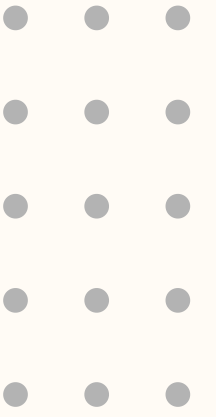
Implementation

Testing

Project Report



Conclusion



We plan to build CrimeLens by collecting real crime data, applying machine learning and geospatial methods, and developing an interactive platform. Our goal is to create a working system that can identify crime patterns and support better public safety decisions.

