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(57) Abstract :  
The invention relates to a system and method for analyzing crime patterns and predicting future crime rates to support law enforcement and urban planning efforts. The system integrates multiple data sources, including historical crime records, socio-economic indicators, environmental factors, and real-time data feeds, to identify crime trends and patterns. Using advanced data processing techniques and machine learning algorithms, the system generates predictive models that estimate future crime occurrences and identify potential crime hotspots. The system includes tools for visualizing crime patterns, assessing risks, and providing actionable insights to optimize resource allocation, improve public safety, and enable more effective crime prevention strategies. This invention enhances the accuracy and efficiency of crime forecasting, allowing law enforcement agencies to proactively deploy resources and implement targeted interventions.

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