

PLAGIARISM SCAN REPORT

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The escalating crime rate has emerged as a critical concern, posing a significant obstacle to the promotion of good governance. Crimes exhibit neither systematic nor random patterns, rendering their analysis a complex task. While certain criminal activities like robbery and firebombing may have decreased, others such as murder, sexual abuse, and gang rape have witnessed an alarming increase. Understanding crime patterns becomes challenging, making it essential to focus on the location of incidents rather than the victims. The vast amount of crime data stored in warehouses demands an efficient analytical tool, especially with criminals adopting advanced technologies. Predictive policing, utilizing analytical and predictive techniques, proves effective in addressing this challenge. This paper emphasizes the need for advanced technologies to keep law enforcement ahead of technologically sophisticated criminals, as crime rates persistently rise, and crime patterns undergo constant changes. The study illustrates the role of social development in crime prevention, providing a comprehensive review of theory and research. It aims to implement various data analysis algorithms that elucidate the connections between crime and its patterns. With crime intensifying in complexity, this paper addresses the pressing issue, categorizing crimes into property-related offenses (theft, burglary, robbery) and crimes of aggression (homicides, assaults, rape). Information technologies have empowered law enforcement to collect detailed crime data, prompting the necessity for crime analysis methodologies that encompass both quantitative and qualitative approaches. Qualitative methods, such as scenario writing and environmental scanning, prove valuable in predicting future criminal activities, while quantitative methods focus on forecasting future crime rates. Crime analysis, as an integral part of crime prevention, plays a practical role in identifying crime patterns, aiding in the discovery, and detection of crimes and their connections to criminals.

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