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(57) Abstract :

This patents describes an integrated approach to crime investigation and suspect prediction that leverages advanced technologies and data analytics to enhance law enforcement capabilities. The proposed framework combines traditional investigative methods with cutting-edge tools such as machine learning algorithms, data mining techniques, and social network analysis to generate actionable insights and improve the accuracy of suspect prediction. findings of this research provide valuable insights and recommendations for law enforcement agencies to leverage technology in their crime-solving efforts and enhance public safety. As to reduce the stress on the police officers we implemented a system of a criminal investigation tracker with a suspect prediction that will help the officers to speed up the process of investigation and track the status of the ongoing case by predicting the primary suspects based on the records which consist of compendium of the people associated to the case, former criminal background proofs recovered from crime location, etc. This digitized system makes work easy for an officer to check the status of the case online and even allows him to add up the new important information related to the case as it's when needed. The proposed system consists of a suspect prediction algorithm to predict and suggest the suspects in a logical order.

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