

CRIME ANALYSIS AND SECURITY ENHANCEMENT OF FORENSIC EVIDENCES USING BLOCKCHAIN

SYNOPSIS

Crime Analysis in assisting police and helps in reduction and prevention of crimes and crime disorders using data mining tools. I collect the data from police department and try to get each and every detail, like the person's name, address, age, sex and photo details. Once I get the information and start to process the data. The use of information mining methods helps in resolving most complicated criminal cases. Then I calculate the crime rate based on the previous data using data mining techniques. I can identify the highest risk crime zones with the help of data mining techniques. The storage and processing on data with security is the need of each and every application field. Rapid increase in cybercrime, attackers behave maliciously to alter those data. But it is having great impact on forensic evidences which is required for provenance. To build the transparent system with immutability of forensic evidences, blockchain technology is more suitable. Blockchain technology provides the transfer of assets or evidence reports in transparent environment without central authority. The security enhancement of forensic evidences is achieved through implementation on Ethereum platform with high integrity, traceability and immutability.