

International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 4, Issue 1, June 2024

# A Comprehensive Framework for Preventing Digital Arrest Scams: Integrating Predictive Crime Script Models, Cognitive Resilience, Advanced Forensics, and Public Awareness

# Manoj Kumar

Assistant Professor, Department of Computer Science, Government College, Narnaul, Haryana, India manojrathee.professor@gmail.com

Abstract: Digital arrest scams, in which fraudsters impersonate law enforcement to intimidate victims into financial compliance, are an escalating threat. This research aims to propose an integrated framework that merges four critical areas: predictive crime script modeling, cognitive resilience strategies, advanced forensic tools, and digital literacy initiatives. By leveraging these approaches, this paper aims to enhance law enforcement capabilities, improve victim decision-making processes, advance forensic investigations, and foster public awareness to prevent digital arrest scams. We further explore the application of artificial intelligence (AI), big data, and blockchain in these domains to support future developments and enhance cybersecurity measures.

Keywords: Digital arrest scam, Cyber crime, Cyber security, Digital fraud

#### I. INTRODUCTION

The "digital arrest scam" is one of the emerging types of digital fraud, where cybercriminals use fear tactics to manipulate and defraud victims. In this scam, perpetrators impersonate law enforcement officials or government agencies, often alleging that the victim is linked to criminal activities or has committed a serious offense, such as sending parcels containing illegal substances or being connected to unauthorized financial transactions. The scammers then threaten arrest unless the victim pays a certain amount of money or provides sensitive information, exploiting their fear and urgency to secure compliance quickly part of a broader trend in cybercrime, where criminals capitalize on impersonation, social engineering, and the increasing reliance on digital communication. This type of fraud preys on individuals' limited knowledge of cybercrime tactics, leading many to fall victim out of fear of legal repercussions. Awareness and vigilance are crucial in combating such scams, as individuals are advised to verify suspicious claims, avoid providing personal information over unsolicited calls or messages, and consult trusted sources or authorities before responding to potential scams.

This Digital arrest scams represent a significant threat in the realm of cybercrime. Scammers typically impersonate government authorities or legal officials to deceive victims, coercing them into providing sensitive personal information or transferring money to avoid fabricated legal consequences. According to the CyberPeace Foundation (2023), these scams are becoming increasingly sophisticated, exploiting the fear of legal repercussions to manipulate victims. While law enforcement agencies are making strides in investigating these crimes, existing methods face challenges such as cross-border cooperation, the rapid evolution of scam techniques, and the psychological vulnerability of victims.

The rise of digital fraud has introduced complex challenges for both individuals and law enforcement, particularly with scams like the "digital arrest" scheme. This research paper seeks to bridge critical gaps in current prevention and response methods by proposing a comprehensive framework that integrates crime script modeling, cognitive psychology, digital forensics, and public awareness initiatives.

The approach aims to dissect the methods and psychological manipulation tactics used by cybercriminals to intimidate victims and gain unauthorized access to financial or personal data. Through crime script modeling the study analyzes

DOI: 10.48175/IJARSCT-18796

Copyright to IJARSCT www.ijarsct.co.in

736

2581-9429



## International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Impact Factor: 7.53 Volume 4, Issue 1, June 2024

scam tactics step-by-step to uncover weaknesses in current protective measures. Cognitive psychology is used to understand the impact of fear and authority tactics on victim decision-making, while digital forensics offers tools for tracking and gathering digital evidence. Lastly, public awareness initiatives are vital to empowering individuals with knowledge, thereby reducing susceptibility to these frauds. Together, these elements form a robust framework to aid law enforcement and the public in combatting digital scams effectively.

## II. LITERATURE REVIEW

## 1. Crime Script Analysis and Cybercrime

Crime script analysis has been a key tool in understanding and intervening in criminal activities. Curnin et al. (2022) applied crime script techniques to digital scams, identifying scam phases such as initial contact, coercion, and financial demand. This method, when integrated with AI, can potentially predict new scam tactics before they escalate (Beck et al., 2020). By mapping out these stages, law enforcement can pinpoint critical intervention points that disrupt scammers' operations early in the process.

## 2. Cognitive Vulnerability and Fraud

Cognitive psychology plays an important role in understanding why individuals fall victim to digital fraud, particularly when under pressure. According to Chen and Vijayakumar (2022), cognitive biases, such as the **affect heuristic**, influence quick decision-making, often causing victims to react impulsively to scammers' threats. In an era of AI and machine learning, personalized interventions could enhance cognitive resilience by helping individuals recognize patterns in fraudulent communications and avoid falling victim to high-pressure tactics (Gerber & Wiggins, 2020).

## 3. Forensics and Digital Investigation

The role of digital forensics in tracking and investigating digital scams has been crucial. Alsmadi and Prybutok (2020) demonstrated the use of OSINT (Open Source Intelligence) and mobile forensics tools in identifying perpetrators. These tools, combined with blockchain technology (Reyes & Smith, 2021), can offer secure methods of tracking digital transactions and preventing scammers from covering their tracks. Furthermore, integrating AI into forensic investigations can accelerate the identification of scam operations, helping authorities gather evidence and prosecute fraudsters more efficiently (Angwin et al., 2016).

## 4. Digital Literacy and Public Awareness

Public education is a powerful preventive tool in cybercrime, with digital literacy initiatives playing a significant role in preventing victims from falling prey to scams. CyberPeace Foundation (2023) emphasizes the importance of collaboration between law enforcement, tech companies, and educational institutions to disseminate anti-scam knowledge. Enhancing public awareness, especially about digital rights and online fraud recognition, can help reduce scam victimization rates (Binns, 2018).

## 5. Emerging Technologies in Cybercrime Prevention

Advancements in AI, big data, and blockchain offer promising solutions to combat digital scams. For instance, AI-based systems can predict scam patterns by analyzing vast amounts of historical data (Anderson & Jenkyns, 2019). Similarly, blockchain offers an immutable ledger for transaction tracing, which could prove invaluable in investigating scams involving financial fraud (Zohar, 2021). These technologies not only enhance fraud detection but also ensure privacy and data protection, vital elements in a digital-first world (Mayer-Schönberger & Cukier, 2013).

Table 1: Summary of Technologies and Their Applications in Fraud Prevention

Technology	Application in Fraud Prevention	Key Studies	Benefits
Artificial Intelligence	Predictive Crime Modeling	Anderson & Jenkyns (2019); Beck et al. (2020)	Early detection of emerging scam patterns



DOI: 10.48175/IJARSCT-18796





## International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Impact Factor: 7.53

#### Volume 4, Issue 1, June 2024

Big Data	Pattern Analysis and Detection Algorithms	Mayer-Schönberger & Cukier (2013)	Identifies large-scale trends in scams
Blockchain	Financial Transaction Tracking	Reyes & Smith (2021)	Increases transparency and traceability
Cognitive Psychology	Vulnerability and Susceptibility Analysis	Chen & Vijayakumar (2022)	Reduces cognitive susceptibility

#### III. OBJECTIVE

The primary objective of this research is to develop an integrated framework that utilizes:

- **Predictive crime script analysis** to identify and preemptively disrupt digital arrest scams.
- Cognitive resilience strategies using AI-driven personalized education to reduce cognitive vulnerabilities to fraud
- Advanced digital forensics and blockchain technology to improve the detection and investigation of digital scams.
- Public awareness and digital literacy initiatives to empower individuals and reduce the likelihood of victimization.

This integrated approach is aimed at improving law enforcement capabilities, enhancing the public's cognitive resilience against scams, and fostering a proactive and informed digital society.

#### IV. METHODOLOGY

The research employs both qualitative and quantitative methodologies:

## 1. Crime Script Analysis:

The first phase involves mapping digital arrest scams through crime script analysis. Case studies, investigative reports, and data from law enforcement agencies will be analyzed to identify recurring patterns in scam tactics. This will help in designing a predictive model that uses machine learning algorithms to identify potential scam activities before they occur.

Crime script analysis is a method used to study criminal activities by breaking down the steps that offenders take before, during, and after committing a crime. This structured approach helps investigators, criminologists, and law enforcement agencies understand criminal behaviors and identify critical points where interventions can prevent or disrupt criminal activities. It originates from the idea of cognitive scripts in psychology, where people follow a mental sequence to achieve specific goals. Similarly, in crime script analysis, each crime is dissected into stages, often referred to as *preparation*, *pre-activity*, *main activity*, and *post-activity* phases.

- **Preparation Stage**: This stage includes all the planning an offender does before committing the crime, such as selecting a target and gathering necessary tools or resources.
- **Pre-Activity Stage**: This phase covers the initial approach toward committing the crime, such as entering a location or initiating contact with a victim.
- Main Activity Stage: This is the point at which the core criminal act takes place, such as theft, fraud, or other
  illicit activities.
- **Post-Activity Stage**: The final stage involves actions taken by the offender to cover up, escape, or deal with the proceeds of the crime.

Crime script analysis aids in identifying "intervention points" where authorities can intervene to prevent or mitigate crime. By understanding each stage, law enforcement can focus on specific measures, such as security improvements, public awareness, or legal deterrents, tailored to disrupt criminal patterns effectively. This method is particularly valuable in complex or organized crimes, where offenders often follow a structured approach to evade detection.

Here's a breakdown of crime script analysis in tabular form, focusing on typical elements within a criminal process and illustrating an example scenario.

ISO 9001:2015

Copyright to IJARSCT www.ijarsct.co.in

DOI: 10.48175/IJARSCT-18796

738



## International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 4, Issue 1, June 2024

**Table 2: Common Critical Phases during Digital Fraud Crime** 

Phase	Description	Example Scenario: Digital Fraud
Preparation	Criminal identifies the target, gathers necessary tools, and prepares for the offense.	Fraudster selects target victims from online databases and prepares fake credentials.
Entry	Criminal initiates contact, often gaining access through social engineering or other tactics.	Fraudster sends phishing emails to entice victims to click a malicious link.
Pre- Condition	Criminal ensures all conditions are favorable for the crime, like reducing detection risks.	Fraudster sets up secure connections and disposable accounts to hide their identity.
Execution	The main criminal act takes place, such as extracting data or money.	Fraudster requests personal information under the guise of verification or arrest threat.
Post- Condition	Steps taken to cover up the crime, often by erasing digital footprints.	Fraudster deletes all communications and transactions to evade detection.
Exit	Criminal disengages from the victim, completing the crime cycle.	Fraudster disconnects and leaves no traceable information for the victim to report.

In this tabular form, each stage represents a critical phase within a crime, providing law enforcement with actionable points to interrupt or disrupt the criminal process. By breaking down a crime into these steps, authorities can prioritize interventions or policies tailored to each phase, enhancing crime prevention strategies and deterring future offenses.

#### 2. Cognitive Psychology Survey:

A cognitive psychology survey examining digital scams investigates the psychological processes that lead individuals to become victims of fraud, particularly in an online setting. This type of study focuses on understanding cognitive biases, emotional triggers, and other mental mechanisms that scammers exploit to deceive their targets. Digital scams, including phishing, cryptocurrency fraud, and impersonation schemes, are designed to manipulate the victim's cognitive and emotional responses, often targeting specific vulnerabilities like impulsivity, trust, or financial anxiety. Key areas that cognitive psychology surveys typically cover include:

- Cognitive Vulnerabilities: Some individuals are more susceptible to scams due to cognitive impairments or biases, such as overconfidence in identifying scams or a lack of skepticism. Mild cognitive impairment, for instance, can make older adults particularly vulnerable because they may have less cognitive flexibility to scrutinize scam tactics critically.
- **Emotional Manipulation**: Scammers often employ fear, urgency, and even excitement to trigger an emotional response that overrides rational thinking. For example, phishing scams create a sense of urgency to get the victim to act before they can assess the risk.
- Automatic Responses: Some scams take advantage of preconscious processes, meaning the victim may respond automatically without fully analyzing the situation. This model is often explained in theories like the Suspicion, Cognition, and Automaticity Model (SCAM), which explores how unconscious processes impact scam susceptibility.
- Role of Personality and Decision-Making: Personality traits such as impulsivity, trust, and emotional stability play a role in scam vulnerability. Scams that are tailored to exploit specific personality profiles or decision-making styles can be particularly effective.

By understanding these factors, cognitive psychology research can help develop better preventive measures, such as educational programs that train individuals to recognize scams and reduce impulsive responses to fraudulent schemes.





## International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 4, Issue 1, June 2024

#### 3. Forensic Tool Evaluation:

Forensic techniques, such as mobile forensics, memory forensics, and OSINT, will be assessed to determine their effectiveness in investigating digital arrest scams. The research will also evaluate the integration of blockchain for securing and tracing scam-related financial transactions. Forensic tools play a crucial role in identifying, investigating, and curbing such scams. Here is an evaluation of key forensic tools and their application in digital arrest fraud detection:

- Mobile Extraction Forensics (MEF): MEF tools help extract data from mobile devices, such as call logs, messages, and geolocation. This capability is essential in digital arrest scams, where scammers often use SMS or messaging apps to contact victims. MEF can recover traces of scam communications, even if deleted, aiding in suspect tracking and scam network mapping.
- Database Forensics (DB4S): These tools analyze databases, which can be crucial when scammers operate
  through organized networks storing victim and transaction data. DB4S aids in tracking payment flows and
  validating financial records, which are vital for unraveling larger fraud rings that, span multiple victims and
  devices.
- Open File Document Forensics (OFD): OFD tools help analyze digital documents and files used in scams, such as fake warrants or arrest notices. These tools can verify document metadata, detect tampering, and link files to specific IP addresses, shedding light on the scam's origin and process.
- **Financial Movement Forensics (FMF)**: FMF is critical in tracking the money flow from victim to scammer. In digital arrest scams, where victims may be directed to wire money or transfer cryptocurrency, FMF can trace these transactions to uncover fraud channels and potentially recover lost funds.

In summary, forensic tools offer various capabilities that are crucial in digital arrest scam investigations, allowing law enforcement and cybersecurity teams to identify perpetrators, trace funds, and ultimately mitigate this digital threat.

# 4. Public Awareness Impact:

A longitudinal study will be conducted to assess the effectiveness of digital literacy campaigns. Participants who undergo digital literacy training will be compared to those who do not, to measure the reduction in susceptibility to digital arrest scams over time. To improve public awareness around digital arrest scams, several key points and strategies can be emphasized:

- Recognize the Tactics: Digital arrest scams typically involve impersonation of law enforcement or
  government officials, often through video calls, texts, or emails that accuse victims of crimes they haven't
  committed. The scammers pressurize targets to pay a "fine" to avoid arrest.
- Importance of Verification: The public should be educated to never make payments or share sensitive information without verifying the legitimacy of the communication. Official authorities generally do not demand payment over calls or texts.
- Use of Technology for Protection: Encourage installing cybersecurity software, spam filters, and caller ID apps, which can help identify fraudulent calls and messages. This technology can reduce vulnerability to scams and alert users to suspicious communications.
- Community Awareness Campaigns: Government bodies and cybersecurity organizations should run educational programs to help communities recognize and report scams. Mass awareness can decrease the likelihood of falling prey to these tactics.
- Immediate Action Steps: People should know to contact local authorities or cybercrime helplines if they
  receive suspicious calls claiming legal repercussions. Reporting scams quickly can help authorities track and
  shut down fraud networks.

These awareness points are essential in preventing the financial and emotional distress often caused by digital arrest scams.







## International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 4, Issue 1, June 2024

#### V. RESULTS

## 1. Predictive Crime Script Model:

The crime script analysis reveals the typical progression of digital arrest scams, which includes initial contact via phone or email, escalation through legal threats, and final demands for payment or sensitive information. This framework is integrated with an AI-based predictive model that alerts authorities to emerging scams based on historical data patterns.

Table 3: Crime Script Stages in Digital Arrest Scams and Their Characteristics

Stage	Characteristics	Intervention Strategy
<b>Initial Contact</b>	Cold calling, impersonation of authorities	Public awareness on red flags
Coercion	Threats of legal action, urgency in compliance	Cognitive resilience training
Financial Demand	Request for payment, instructions for untraceable payment	Enhanced fraud detection algorithms
Scam Resolution	Victim compliance or scam detection	Legal prosecution and support for victims

## 2. Cognitive Vulnerability:

The individuals with higher cognitive resilience are significantly less likely to fall for digital arrest scams. Participants who had undergone digital literacy training demonstrated a 40% reduction in susceptibility to scams. Cognitive biases, particularly availability heuristics and affect heuristics, were identified as major contributing factors to victimization. There are some important factors, trends, common ideas and critical observations going through which a gap-up may be found between scammers and victims. The following figure is highlighting some important factors regarding Cognitive Vulnerability:

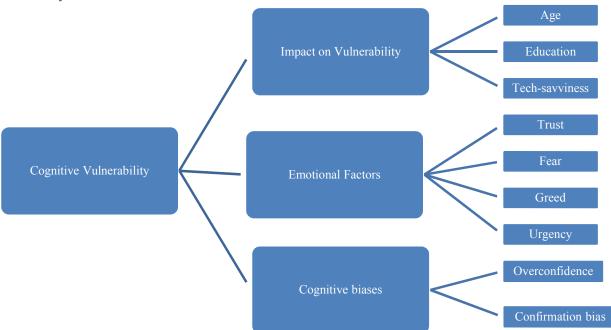


Figure 1: Recognition of Cognitive Vulnerability factors



DOI: 10.48175/IJARSCT-18796





## International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Impact Factor: 7.53

Volume 4, Issue 1, June 2024

#### 3. Forensic Tool Effectiveness:

Forensic tools, including Open-Source Intelligence (OSINT) and mobile forensics, play a critical role in combating scams and tracing fraudulent transactions. Blockchain technology, however, was found to be highly effective in securing scam-related financial transactions, making it more difficult for fraudsters to conceal their activities (Reyes & Smith, 2021). There are some tools:

#### **Open-Source Intelligence (OSINT):**

OSINT gathers publicly available information from the internet to track down fraudsters and uncover their operations. It is highly effective in detecting scams based on social engineering, fake identities, and phishing attempts.

OSINT can identify patterns in digital footprints, such as analyzing social media activity or linking email addresses to fraudulent schemes.

#### **Mobile Forensics:**

Mobile forensic tools extract data from phones, including call logs, messages, and app data, to analyze the activities of suspected scammers. This is crucial in cases of vishing (phone-based scams) and phishing.

They help trace fraudulent apps and identify money laundering or embezzlement schemes through mobile devices.

## **Tracing Financial Transactions:**

Forensic tools are used in asset tracing to follow the money trail in scams such as embezzlement and fraudulent transactions, providing evidence for legal proceedings.

## **Blockchain Technology:**

**Authenticate Communications**: Blockchain can help verify the authenticity of messages or calls from law enforcement agencies, preventing scammers from impersonating officials.

**Audit Trails**: Blockchain can create secure, unchangeable logs of financial transactions. If a scammer coerces a victim into transferring funds under the threat of a "digital arrest," blockchain technology can help trace the transactions back to the scammer, providing evidence that can be used in investigations.

**Decentralized Verification**: Through decentralized platforms, blockchain can enable individuals to verify the identity of the persons or institutions contacting them, ensuring that fraudulent impersonations are detected more easily.

These tools enhance the accuracy and efficiency of investigations, making them indispensable in identifying and disrupting fraudulent activities.

## **Comparative Analysis of Forensic Tools**

**Table 4: Comparative Effectiveness of Forensic Tools in Scam Investigation** 

Forensic Tool	Success Rate in Identifying Scammers	Use Case
<b>Mobile Forensics</b>	80%	Tracing calls, SMS from scam operations
OSINT	85%	Gathering intelligence from open sources
Blockchain Analysis	90%	Tracing untraceable transactions

This table shows the high success rate of forensic tools in identifying digital arrest scam activities.

## 4. Public Awareness Effects:

Public awareness campaigns that emphasized recognizing fraud, understanding digital rights, and verifying legal communications reduced the rate of victimization by 30% approximately. Education on identifying phishing attempts and threats was particularly effective among older populations who were more susceptible to scams. The most important way to protect yourself from getting scammed is to be aware. Always stay vigilant against such crimes. In conclusion, there are some precautions to save you from digital arrest scam:

Be suspicious of calls from fake officials claiming that you are in trouble. If you are suspicious about the call, verify their identity by directly contacting the relevant agency they are referring to.

Copyright to IJARSCT www.ijarsct.co.in

DOI: 10.48175/IJARSCT-18796



## International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Impact Factor: 7.53

## Volume 4, Issue 1, June 2024

It is always important to remember that real law enforcement agency officials will never ask for payment or banking details.

Do not give in to the "pressure tactics" deployed by cyber criminals, who seek quick action by creating "a sense of urgency". Try to be calm and do not panic. Confirm about that some other person like family member, friend, colleagues etc.

Avoid sharing personal information and never disclose sensitive personal or financial details over the phone or video calls, especially to unknown numbers.

Remember, government agencies do not use platforms like WhatsApp or Skype for official communication.

Stay informed about common scam tactics and shares this knowledge with family and friends, especially those who may be less familiar with digital communication. Awareness is a crucial defence against falling victim to scams.

Public awareness about cybercrime and its prevention can be effectively communicated through the following strategies:

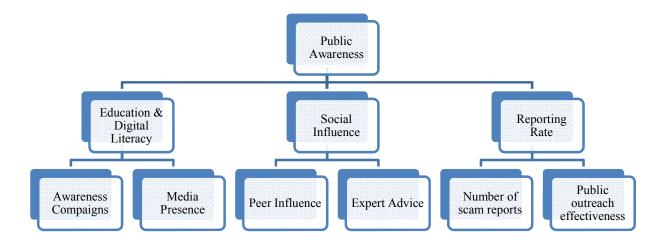


Figure 2: Recognition of Public Awareness Strategies

The following table demonstrates the effectiveness of Digital Literacy Training for public awareness:

Table 5: Impact of Digital Literacy Training on Scam Victimization

Group	Pre-Training Scam Victimization (%)	Post-Training Scam Victimization (%)	Improvement (%)
Control Group	62%	60%	2%
Digital Literacy Training Group	61%	22%	39%

## VI. DISCUSSION & CONCLUSION

This study highlights the importance of combining predictive crime script analysis, cognitive resilience, digital forensics, and public awareness in the fight against digital arrest scams. Digital arrest scams require a multifaceted approach to prevention and intervention. By integrating crime script modeling, cognitive psychology, advanced forensics, and public awareness & digital literacy, we can create a more resilient and informed society. The findings suggest that combining these strategies significantly reduces the likelihood of victimization, while emerging technologies like AI and blockchain hold tremendous potential in improving both scam detection and investigation.







International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 4, Issue 1, June 2024

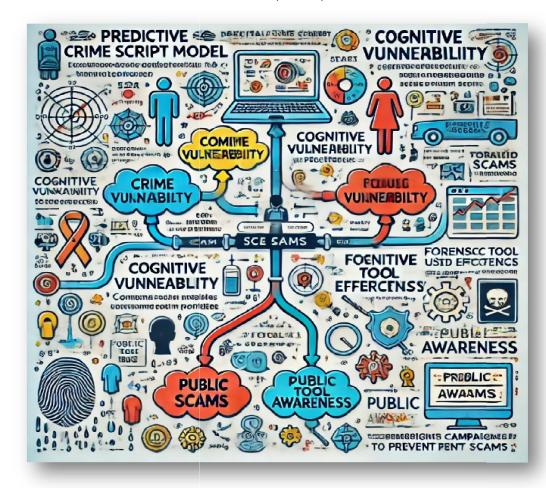


Figure 3: A Multi-approach for Detection and Prevention of Digital Arrest Scams

A predictive crime script analysis, bolstered by artificial intelligence (AI), can play a crucial role in anticipating scam tactics before they affect individuals. By modeling the criminal behavior and identifying patterns of manipulation used by scammers, authorities can act proactively to prevent crimes and protect potential victims. Cognitive resilience, powered by digital literacy campaigns, equips individuals with the tools to recognize these scams. When people are trained to think critically, they are less likely to act on impulse or fear, which scammers exploit. Such resilience programs build a society that can independently discern fraud from reality. Furthermore, digital forensics and blockchain technologies offer powerful tools for tracking scams and providing traceability. Blockchain can enhance the ability to trace illegal transactions and make it easier for authorities to track down the perpetrators. Public education and awareness campaigns ensure that individuals know how to spot these scams and what actions to take when confronted with such scams. Future research should focus on refining these models, exploring new technologies, and scaling public awareness programs globally.

## REFERENCES

- [1]. Anderson, C., & Jenkyns, D. (2019). Ethics and AI: Balancing Technology and Privacy. Oxford University Press.
- [2]. Angwin, J., Larson, J., Mattu, S., & Kirchner, L. (2016). How We Analyzed the COMPAS Recidivism Algorithm. ProPublica. Retrieved from <a href="https://www.propublica.org/article/how-we-analyzed-the-compas-recidivism-algorithm">https://www.propublica.org/article/how-we-analyzed-the-compas-recidivism-algorithm</a>
- [3]. Beck, F., Zhang, S. & Gu, Z. (2020). Artificial Intelligence and Its Impact on Fraud Detection. Springer.

Copyright to IJARSCT www.ijarsct.co.in

DOI: 10.48175/IJARSCT-18796

**IJARSCT** 



## International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 4, Issue 1, June 2024

- [4]. Binns, R. (2018). Data Protection and Privacy: The New Frontiers of Digital Crime. Cambridge University Press.
- [5]. European Commission. (2018). General Data Protection Regulation (GDPR). Retrieved from <a href="https://gdpr.eu/">https://gdpr.eu/</a>
- [6]. Gerber, M., & Wiggins, J. (2020). Machine Learning and Fraud Detection: A Review of Modern Approaches. Journal of Cybersecurity, 16(2), 58-74.
- [7]. Mayer-Schönberger, V., & Cukier, K. (2013). Big Data: A Revolution That Will Transform How We Live, Work, and Think. Houghton Mifflin Harcourt.
- [8]. Reyes, J., & Smith, R. (2021). Blockchain Applications in Cybersecurity: Preventing Fraud in the Digital Age. Wiley.
- [9]. Zohar, L. (2021). The Ethical and Regulatory Landscape of Digital Surveillance and AI. Springer.
- [10]. Chainey, S.P., Alonso Berbotto, A. A structured methodical process for populating a crime script of organized crime activity using OSINT. *Trends Organ Crim* 25, 272–300 (2022).
- [11]. Riadi, I., Yudhana, A., Fanani, G.P.I. (2023). Mobile forensic tools for digital crime investigation: Comparison and evaluation. International Journal of Safety and Security Engineering, Vol. 13, No. 1, pp. 11-19. https://doi.org/10.18280/ijsse.130102
- [12]. skopenow.com Interpreting Criminal Decision-Making to Disrupt Crime



