

Twaitney Addison
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Dr. Jordan Quinn
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Romance Fraud Scams and the Role of Social Sciences in Cybersecurity

Introduction

Romance fraud scams are a growing cybersecurity issue where attackers create fake online identities to build emotional relationships with victims and eventually trick them into sending money or personal information. Technologically, these scams often use fake profiles, stolen photos, and social media or dating platforms. Socially, they rely heavily on human trust, loneliness, and emotional manipulation. According to the FBI Internet Crime Complaint Center, romance scams cause significant financial losses each year, with victims often losing thousands of dollars (FBI IC3, 2023).

Analysis

From a social science perspective, psychology helps explain why these scams are effective. Scammers use emotional manipulation techniques such as love bombing, urgency, and isolation to gain control over victims' decision-making. These tactics exploit cognitive biases like trust and attachment. Sociology also plays a role, as people who are socially isolated or seeking companionship online may be more vulnerable. Cultural factors can influence how openly people communicate online and how likely they are to trust strangers in digital environments.

Anthropology adds another layer by showing how online dating culture and digital communication norms have changed human relationships, making emotional connections faster but sometimes less secure. Together, these perspectives help cybersecurity experts understand not just the technical side of fraud, but also the human behaviors that make it successful.

Solutions

Effective solutions must combine technology and human awareness. On the technical side, platforms can use AI-based detection systems to identify fake profiles and unusual messaging patterns. Stronger identity verification and reporting tools can also reduce scam activity. On the human side, education is critical. Users should be trained to recognize warning signs like requests for money, avoidance of video calls, or rushed emotional attachment.

Barriers

One major challenge is that victims often feel embarrassed, which prevents them from reporting scams. Additionally, scammers constantly adapt their tactics, making detection difficult. To overcome this, platforms need to create non-judgmental reporting systems and continuously update security algorithms.

Reflection

Combining cybersecurity with social sciences is essential because cyber threats often target human behavior rather than just systems. Understanding psychology and social interaction helps create more effective prevention strategies. This interdisciplinary approach shows that cybersecurity is not only a technical field but also a human-centered one.

Conclusion

Romance fraud scams highlight how cybercrime depends on emotional manipulation and social behavior. Addressing this issue requires both technical defenses and a deep understanding of human psychology and society.

References

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- Cialdini, R. B. (2009). *Influence: Science and practice*. Pearson.