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CYSE 201S

9/29/24

Investigating the Intersection of AI and Cybercrime: Risks, Trends, and Countermeasures

Review of Investigating the Intersection of AI and Cybercrime: Risks, Trends, and Countermeasures

Article Review #1

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The article I have selected for this essay focuses on one of the most pertinent issues in the modern cybersecurity and internet landscape. The topic of Artificial Intelligence, and specifically its use in cybercrime. Before diving into full analysis, a few definitions must be made: Cybercrime is the act of performing criminal activities utilizing technologies such as the internet. These can include hacking, data theft, and DDOS attacks among others; Artificial Intelligence (henceforth referred to as AI) is an emerging technological trend that utilizes machine learning to analyze user input, generate text or images, and for more advanced models, provide insight. Though its usefulness is questionable as it has no true knowledge (Shetty et al., 2024 page 30, paragraph 2).

The question posed by the researchers and answered throughout the journal article is simple. How is AI used to commit cybercrimes in the modern era? (Shetty et al., 2024 page 28)

The study utilized quantitative data gathering in order to collect evidence regarding the use of AI driven prompts in the enacting of cybercrimes, and then further refined the collected data using qualitative samples garnered from expert interviews (Shetty et al., 2024 page 33, paragraph 1). The researchers then went on to analyze the gathered data using Choi's cyber RAT as the framework (Shetty et al., 2024 page 34-35)

The data gathered by the researchers includes, but is not limited to; 19 sources from flowGPT, 5 from Respostas Ocultas, 29 from Reddit, and 13 from Dread. (Shetty et al., 2024 page 35, table 1) These data sources indicate a wide net cast, including dark web and surface internet sources, which undoubtedly provided a large buffer to work through.

This research dives further into the ways in which cybercriminals perform their malicious actions, while looking at it specifically through the lens of AI, which, while not relating to week

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5's topic directly, does underpin the reasons for which some cybercriminals perform their acts.

Ease of access

The research paper has no insight that I could find regarding marginalized groups, but my analysis is that, newly emboldened hacker collectives could very, very easily target marginalized groups such as immigrants, LGBTQIA+ individuals, or persons of color.

Works Cited

Shetty, S., Choi, K.-S., & Park, I. (2024b). Investigating the intersection of AI and cybercrime: risks, trends, and countermeasures. *International Journal of Cybersecurity Intelligence & Cybercrime*, *7*(2). https://doi.org/10.52306/2578-3289.1187