



Survey Report

Enhancing Cyber Attack detection using Deep Learning

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ABSTRACT

Financial institutions must utilize digital more efficiently with greater customer-centricity, yet the more they lean toward that, the greater the vulnerability to attacks like ransom ware and phishing. The traditional Cyber Threat Intelligence approaches through signature based systems happen to be ineffective against these evolving threats [3]. The application of artificial intelligence (AI) and machine learning (ML) offers a solution to analyze large amounts of data to detect risks and predict danger in real time [5]. This allows banks to be proactive and agile in their risk mitigation. This paper discusses the disruptive impact of AI and ML in CTI, their capabilities, integration challenges and areas for future research to strengthen the cyber security infrastructure [6].

Keywords: Cyber Threat Intelligence, Financial Institutions, Artificial Intelligence, SIEM (Security Information and Event Management), Machine Learning, Ransom ware, Advanced Persistent Threats, Cyber Security.

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