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(57) Abstract :

The present disclosure relates to a system that uses machine learning models (114) for a network (102) intrusion detection (116). The machine learning models (114) include decision trees, k-nearest neighbors, support vector machines, deep learning and artificial neural networks (102) for detection (116) of any intrusion in the network (102). If any malicious activities or intrusion is detected on the network (102), the system generates an alert for the user to take any remediation actions. The system also includes a continuous monitoring feature for monitoring the network (102) for any additional intrusions or network 102 mis functionalities. The method comprises scalability measures for effectively monitoring a larger network (102) and also includes a threat hunting capability for detecting potential threats in the network (102). The system updates its machine learning model (114) to detect any new kinds of network (102) threats.

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