(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/01/2024

(21) Application No.202411001938 A
(43) Publication Date : 02/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR DETECTING MAN-IN-THE-MIDDLE (MITM) ATTACKS

(51) International classification :G06N0020000000, H04W0012122000, G06N0005000000, G06N0020100000, H04L0009320000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Disclosed is a system (100) for detecting man-in-the-middle (MITM) attacks. The system (100) includes an input unit (102), a processing unit (104), and an output unit (106). The input unit (102) is configured to receive traffic associated with one or more networks. The processing unit (104) that is coupled to the input unit (102) and configured to analyze network traffic patterns. The processing unit (104) analyzes the network traffic patterns to identify potential man-in-the-middle attacks. The processing unit (104) employs one of, a machine learning technique and an artificial intelligence technique. The output unit (106) that is coupled to the processing unit (104) and configured to initiate one or more mitigation operations that mitigate an effect of the man-in-the-middle attacks.

No. of Pages : 15 No. of Claims : 10