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Patent Search

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Abstract:

The present invention provides a system and method for proactive network security using artificial intelligence. The said invention helps to forecast possible network locate anomalous situation with provision for suggesting mitigation actions in case anomalous situation. The invention uses recommendation facility, wherein the AI system analyzes and predicts the suspicious traffic using past records of traffic. The invention successfully reduces hard work required by network analyst by providir him where he no more need to scroll through logs of traffic traces for suspicious traffic which ultimately helps in reducing mean time to repair (MTTR). The proposed can efficiently and effectively predict the possible suspicious traffic and can predict cyber attacks well in advance. The invention will enable proactive network securit able to safeguard the network from cyber attack. Reference: Drawing 1

Complete Specification

Claims:1. A system and method for proactive network security using artificial intelligence comprises network traffic data, flow capture, flow exporter, flow collector, recommender matrix, dimensionality reduction, recommendation engine, flow analyzer and prediction module.

2. The system and method for proactive network security using artificial intelligence as claimed in claim 1 wherein network traffic data comprises UNB ISCX IDS201? dataset.

3. The system and method for proactive network security using artificial intelligence as claimed in claim 1 wherein flow capture comprises an act of capturing a poc storing it temporarily, inspecting the stored pocket diagnose and solve network problems by determining whether network security policies are being followed.

4. The system and method for proactive network security using artificial intelligence as claimed in claim 1 wherein flow exporter creates flow registers from networl

5. The system and method for proactive network security using artificial intelligence as claimed in claim 1 wherein flow collector stores the flow registers created by exporter and generates statistics from the stored file data.

6. The system and method for proactive network security using artificial intelligence as claimed in claim 1 wherein matrix definition includes the recommender syst technique for predicting suspicious traffic.

7. The system and method for proactive network security using artificial intelligence as claimed in claim 1 wherein dimensionality reduction comprises the process

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