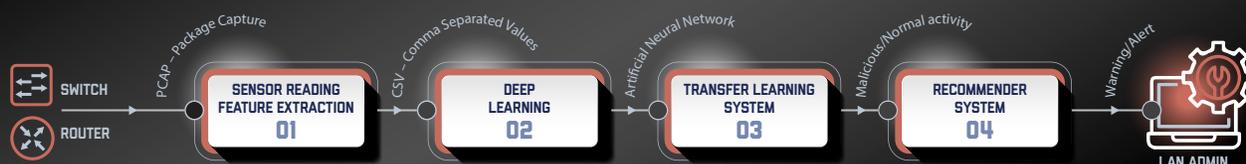


AI/ML-BASED REAL-TIME NETWORK INTRUSION DETECTION SYSTEM

Naval Undersea Warfare Center, Division Newport

The next generation architectures of Big Data and technologies such as 6G require novel approaches to prevent cybersecurity breaches which can negatively affect organizations and individual customers.



PRELIMINARY RESULTS

97% accuracy on UNSW-NB15

90% on zero-day attacks

98% on KDD CUP '99

The proposed solution has been tested **96-98%** accurate in identifying Cyberattacks with few features using Artificial Intelligence and Machine learning techniques with high precision and low false positive rate, and was verified on two separate publicly available datasets over 15 years apart.

POTENTIAL COMMERCIAL USES

- Integration into Zero Trust architecture
- Cybersecurity breach prevention
- Improved operations, data protection

INITIAL PROTOTYPE AVAILABLE

PATENT NUMBER(S):
17/900,982 and
N.C. 211433



Partnering interest? Contact: Technology Partnership Office
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