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(DRBCM)**

Slot: A1+TA1

Research Paper

**TITLE: PREVENTION OF ATTACKS USING ONE CLASS
CLASSIFICATION AND AUTOENCODERS**

9th December 2021

Authors:

Harshita Pundir 18BCI0192

Rohan Allen 18BCI0247

Rakshith Sachdev 18BCI0109

Dr. Swarnalatha P (Mentor)

J component Paper Status: We have submitted our paper to the International Journal of Scientific and Engineering Research. It has also been accepted. Kindly find below email proof of the same.



Rohan Allen <rohanallen18@gmail.com>

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Email*:	rohanallen18@gmail.com
Abstract*:	The objective of this paper is to use machine learning to teach our system to distinguish between malicious network traffic, which could contain a virus or malware, and regular network traffic. The model has also been taught to detect and avoid fake data and the deployment of any specific software while there is a threat of an attack, which results in dramatically reducing the financial stress on an organization and prevents tarnishing their reputation. The major goal is to offer the most accurate findings possible by utilizing methods such as unsupervised learning/one-class-based modeling and autoencoders, thereby also lowering processing time substantially.
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