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2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences



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Advanced and Secure Incursion Detection system using Auto-Encoder and Support Vector Machine in cloud computing

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Abstract: - A system Network intrusion discovery framework (NIDS) helps the system admin to identify network security breaks in their own association. Nonetheless, numerous difficulties emerge while building up an intelligent and effective NIDS for unexpected and capricious attacks. In recent years, one of the foremost focuses inside NIDS studies has been the application of machine learning knowledge of techniques. Proposed work present a novel deep learning model to enable NIDS operation within modern networks. The model shows a combination of deep learning, capable of correctly

has demonstrated that its superior layer-wise feature learning can better or at least match the performance of deep learning techniques. It is able to facilitating a deeper evaluation of network data and faster identification of any anomalies. In this paper, proposes a novel deep learning version to enable NIDS operation inside modern networks.

Despite increasing awareness of network security, the existing solutions remain incapable of fully protecting inter- net applications and computer



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PRESENTATION ON
"CLASD INTRUSION DETECTION NETWORK BASED ON SYMBASED
CONSTRUCTIVE AUTO-ENCODER AND SUPPORT VECTOR MACHINS"

Presented by:
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- Introduction
- Motivation
- Goals
- Objective
- Problem Statement
- Literature Survey
- Conclusion
- References

INTRODUCTION

What is Network intrusion detection system

- Intrusion Detection System (IDS) is a system that identifies, in real time, attacks on a network and takes corrective action to prevent those attacks.

CONT.

- One of the major challenges in network security is the provision of a robust and effective Network Intrusion Detection System (NIDS).
- The current issues
 - Volume of network data
 - In-depth monitoring
 - Granularity required to improve effectiveness and accuracy
 - The number of different protocols and of data traversing.

CONT.

- The main focus of NIDS research has been the application of machine learning and shallow learning techniques. By Which superior layer-wise features can be learned.
- KDD Cup '99 and NSL-KDD datasets has been used.
- A new technique for unsupervised feature learning provides non-symmetric data dimensionality reduction. (feature selection and feature extraction)

CONT.

- A novel classifier model that utilizes stacked feature extraction and the Decision Tree classification algorithm.
- Significantly reducing the training time
- It is capable of facilitating a deeper analysis of network data and faster identification of any anomalies.