





IDS is a research project using an LSTM model to detect DoS attacks in networks, achieving a 99.98% accuracy. The project involves preprocessing and analyzing network traffic data to identify anomalies, enhancing cybersecurity efficiently.



### **Problem Overview**

Vulnerabilities in programs and systems can be exploited by attackers to launch DoS attacks. These attacks may arise due to various motives:

- Not all are driven by financial gains.
- Technological advancements increase attack opportunities.
- As internet usage grows, so does the frequency of attacks.



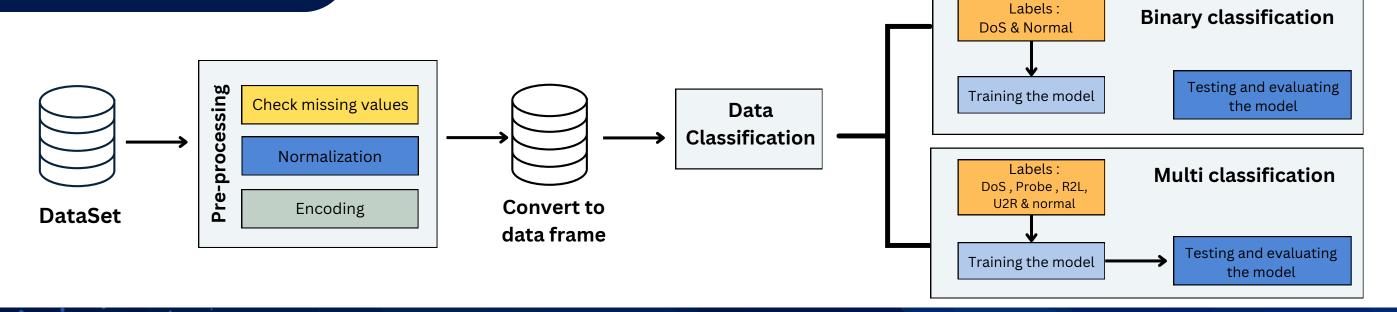
#### **Aims and Objectives**

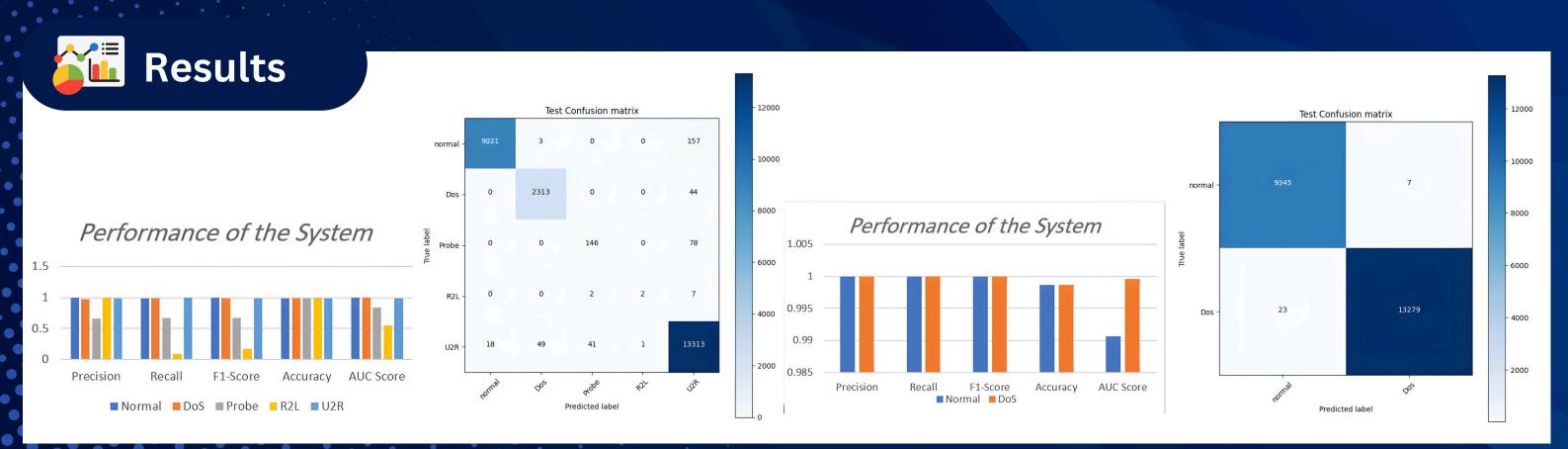
Intrusion detection system, aims to:

- 1. Define and understand key terms related to network intrusion detection.
- 2. Develop a NIDS to detect DoS attacks.
- 3. Analyze DoS patterns and build a model that sends alerts during attacks.
- 4. Implement the model with high accuracy and efficiency.

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# Methodology







# Tools







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