ABSTRACT - INTRUSION DETECTION SYSTEM

It is a cutting-edge solution designed to safeguard computer networks and systems from unauthorized access and malicious activities.

It plays a vital role in enhancing network security and notifies you when your data is accessed by a suspicious person.

As we know, the digital landscape

is evolving rapidly, and with it, the

threats to our online security are

becoming more sophisticated. Cyberattacks, data breaches, and unauthorized access to sensitive information have become all too common. Organizations and individuals alike are looking for effective ways to defend against these threats.

Let me highlight some of the key features of our IDS project:

**IP Address Monitoring:** Our system can track and analyze incoming IP addresses to determine if they are authorized or suspicious.

**System Resource Monitoring**: It continuously monitors CPU and memory usage, alerting users to abnormal activity that may indicate an intrusion or system issue.

**Blocking Suspicious IP Address:** Our IDS also blocks the unauthorised IP addresses thereby preventing the malicious activities.