NETWORK INTRUSION DETECTION SYSTEM

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Protecting Your Network from Cyber Threats

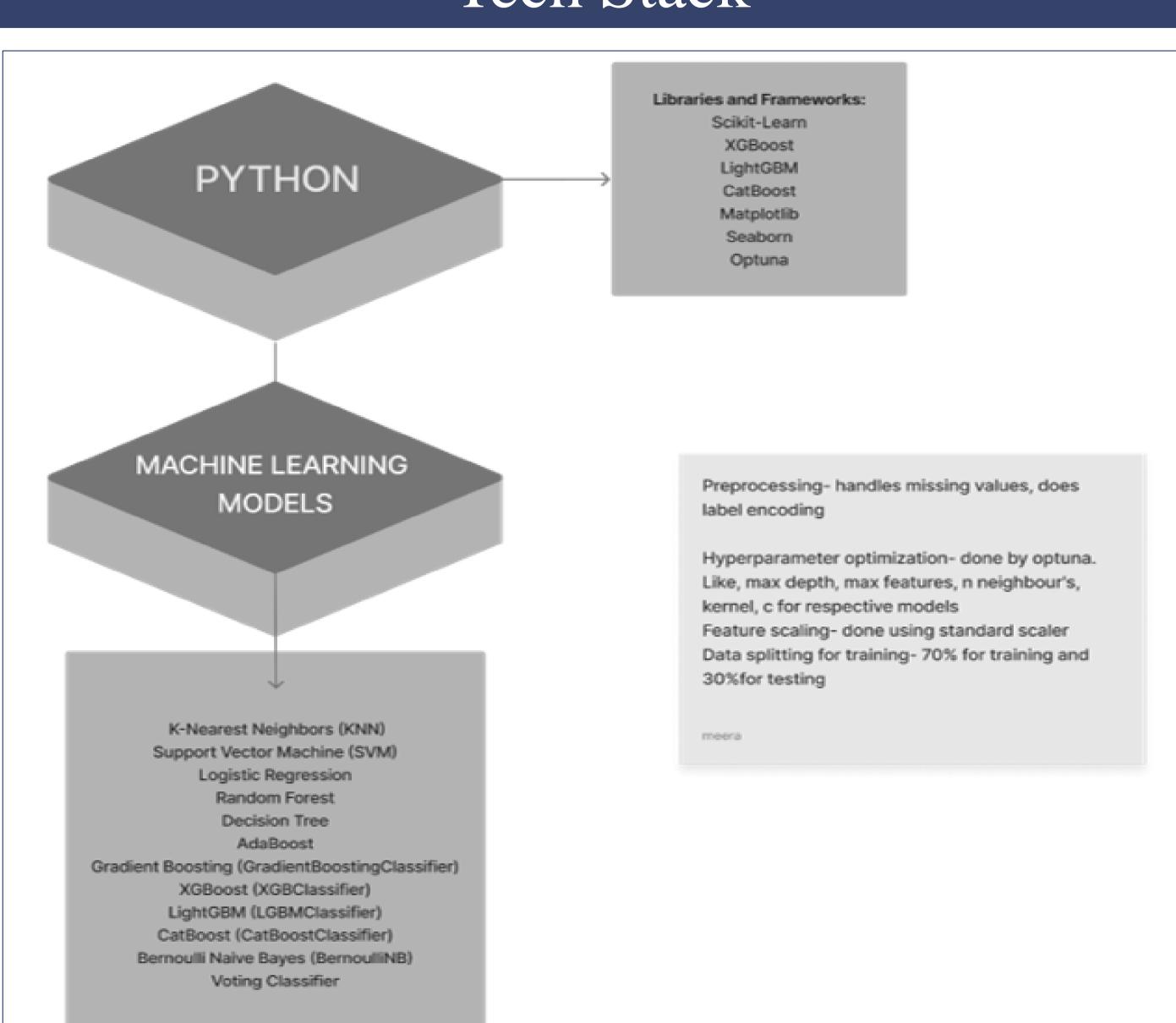
"We live in an age where security is the responsibility of all, not just a few."

Fortify your digital realm with our cutting-edge Network Intrusion Detection System (NIDS). It's your unwavering sentinel, protecting your data from hidden threats and elevating your network security to new heights. NIDS - your impenetrable shield in the cybersecurity battle.

What is NIDS?

- ➤ A Network Intrusion Detection System (NIDS) is a crucial cybersecurity tool designed to monitor network traffic for suspicious activity and security threats.
- ➤ It acts as an extra layer of protection for your organization's digital assets.
- ➤ It differentiates malicious/anomaly network packets from every other usual packets.

Tech Stack



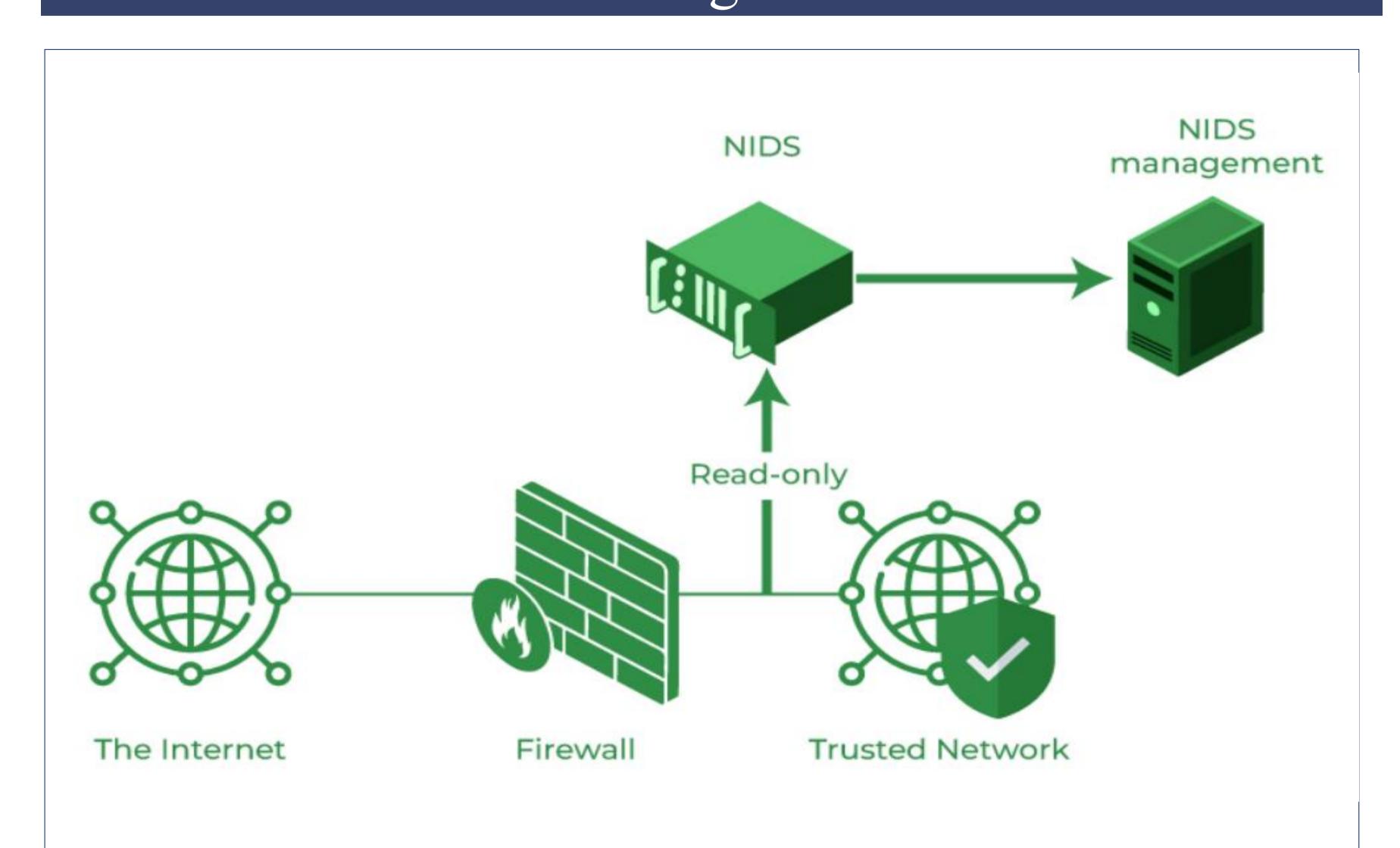
Data Collection

- ➤ IPsum: A threat intelligence feed comprised of 30+ publicly available lists of suspicious/malicious IP addresses. It ranks IPs by blacklist occurrences, reducing false positives in monitored traffic. Used in rule-based NIDS for enhanced security.
- ➤ For ml based NIDS, The dataset consists of a wide variety of intrusions simulated in a military network environment. It created an environment to acquire raw TCP/IP dump data for a network by simulating a typical US Air Force LAN. The LAN was focused like a real environment and blasted with multiple attacks.

Future Improvements

Zero Trust Security
IoT and Cloud Integration

NIDS: The Digital Guardian



Result And Conclusion

