

DoS Attack Detection Using M.L Algorithm

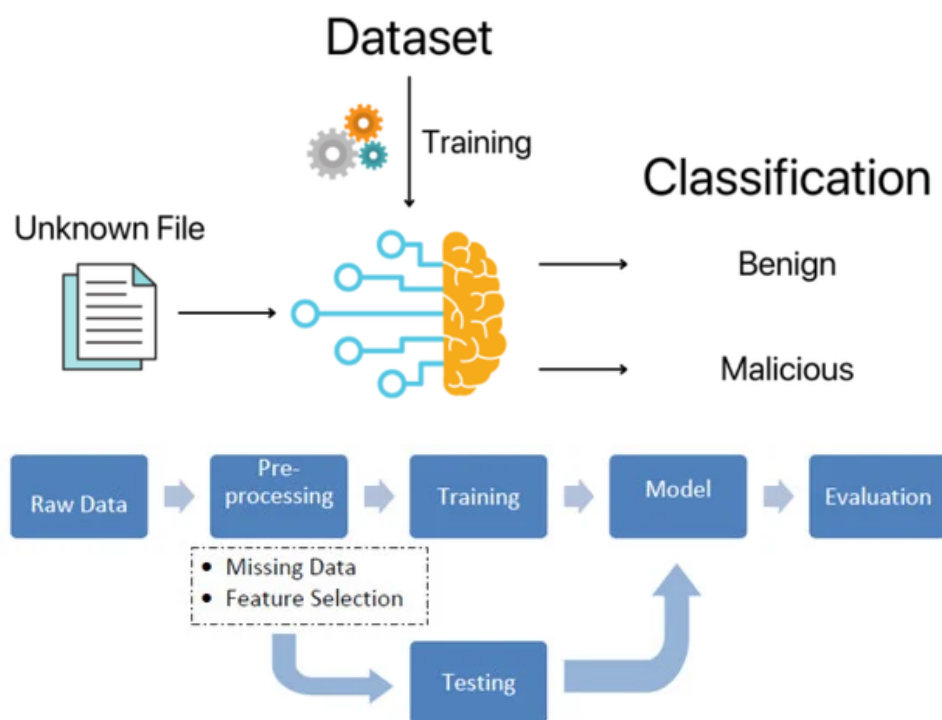
Introduction

In today's interconnected world, cyber threats, especially Denial of Service (DoS) attacks, are a significant risk to online service stability and security. DoS attacks aim to overwhelm target systems or networks with excessive traffic, rendering them unavailable to legitimate users.

Traditional DoS detection methods struggle to keep up with evolving attack techniques, necessitating more advanced and adaptive detection approaches. Machine learning algorithms, a subset of artificial intelligence, play a crucial role in addressing this challenge by enabling systems to learn from data patterns and make predictions or decisions without explicit programming.

Algorithms Used:

- 1 Random Forest Algorithm
- 2 Decision Tree Algorithm
- 3 Gradient Boosting Algorithm
- 4 Naive Bayes Algorithm



Result:

Algorithm	Accuracy	Precision	Recall	F1 Score
RF	99.3	97	96.8	98.2
DT	98	98	98.7	98.2
GB	97	96.8	96.7	98
NB	92.7	78.9	100	92.4