

ABSTRACT

IMPROVED GREY WOLF OPTIMIZATION ALGORITHM FOR DDOS ATTACK DETECTION USING ENSEMBLED BASED APPROACH

This project is titled Improved Grey Wolf Optimization Algorithm for DDOS Attack Detection Using Ensembled Based Approach. The Distributed Denial of Service (DDOS) attack is a deliberate attempt to make an application or website unavailable to users such as flooding it with network traffic. The multiple computer systems are attack a target place and cause a denial of service for the users of the target resource. This attack causes harmful server outages and excessive stress on IT professionals for bringing the resources back to online. To detect the attack, we have to analysis three important phases available. They are optimal feature selection, classification and feature extraction. By using optimization algorithms, to optimally select the features of obtained feature sets.

In this research, the Optimization algorithm which is proposed to detect attacks is Grey Wolf Optimization Algorithm. This algorithm is used to track the attacks which is arrival from the attackers. It is used in a way of blackmailing and extortion. This research work indicates that our detection analysis is used to prevent from the attacks by using optimization techniques.

Keywords: Distributed Denial of Service (DDOS), Optimization Techniques, Grey Wolf Optimization Algorithm

Algorithms used: SVM model, KNN model, Grey Wolf Optimization Algorithm.

Software Tool : Google COLAB

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