

Semisupervised Machine Learning Approach for Ddos Detection

Sanjeevi. J¹ and Dr. Krithika. D. R.²

PG Student, Department of Computer Applications¹

Assistant Professor, Department of Computer Applications²

Vels Institute of Science Technology and Advanced Studies, Pallavaram, Chennai, India

22304139@vistas.ac.in and krithikabanu@gmail.com

Abstract: *Analyzing cyber incident data sets is an important method for deepening our understanding of the evolution of the threat situation. In present generation we come to know about many cyber breaches and hacking taking place. In this project work, we research about the various cyber- attacks and breaches and study the way these attacks are done and find an alternative for the same. We show that rather than by distributing these attacks as because they exhibit autocorrelations, we should model by stochastic process both the hacking breach incident inter- arrival times and breach sizes. We draw a set of cyber securities insights, including that the threat of cyber hacks is indeed getting worse in terms of their frequency. In our project we will be using the algorithms such as Convolution Neural Network (CNN) as existing and Recurrent Neural Network (RNN) as proposed for analyzing our results. From the results obtained its proved that proposed RNN works better than existing CNN.*

Keywords: DDoS (Distributed Denial of Service) Deduction, Machine Learning, Semi-Supervised Learning, Network Security