Intrusion Detection System in Data Mining using Hybrid Approach

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Abstract
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Nowadays, computer security has become very familiar question in the society as nearly everyone has connected their computers to internet to get access to information from various informative sources and send or transmit messages in today’s much complex computer networking world. The most common security threats are intruder which is generally referred as hacker or cracker and the other is virus. To protect the computer on network from intruders, Intrusion Detection Systems are very much important defensive measure component. In this paper we propose a hybrid approach which is the combination two algorithms for clustering and classification that are K-Means and Naïve Bayes respectively. Using KDD Cup’99 dataset we’ll be evaluating the performance of our proposed approach. The evaluation will show that new type of attack can be detected effectively in the system and efficiency and accuracy of IDS will improve in terms of detection rate along with its reasonable prediction time.

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Index Terms

Computer Science  Security

Keywords

Data Mining  Intrusion Detection System  K-means  Naïve Bayes  Sensors.