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(57) Abstract :
 ABSTRACT The most popular name for distributed network attacks is distributed denial of service (DDoS) assaults. These attacks take advantage of specific limitations that apply to every asset in the agreement, such as the authorized company's website structure. The current study's author made use of an antiquated KDD dataset. It is essential to use the most recent dataset in order to ascertain the state of DDoS attacks at this time. This paper used a machine learning approach to classify and forecast different types of DDoS attacks. For this, the classification algorithms XGBoost and Random Forest were used. to be able to access the extensive approach that has been suggested for anticipating DDoS attacks. The UNWS-np-15 dataset was obtained from the GitHub source, and Python was used as a simulator in the proposed work. After applying the machine learning models, we constructed a confusion matrix to assess the model performance. The findings showed that 89% was the Precision (PR) and Recall (RE) of the Random Forest algorithm in the first classification. 89% is the average accuracy (AC) of our proposed model. based on the findings. The average accuracy (AC) of our proposed model is 89%, which is both sufficient and outstanding. The second classification yielded findings indicating that the Precision (PR) and Recall (RE) of the XGBoost method are approximately 90%. Our suggested model has an Accuracy (AC) average of 90%. Comparing our study to the earlier research investigations, we found that the defect determination accuracy was significantly higher, coming in at approximately 85% and 79%, respectively.