

# SAPTHAGIRI COLLEGE OF ENGINEERING


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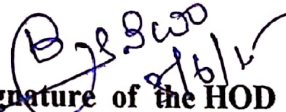
*Department of Computer Science and Engineering*


## Certificate



Certified that the project work entitled "INTRUSION DETECTION SYSTEM FOR DENIAL OF SERVICE" carried out by CHETHAN KUMAR S K (1SG11CS042), AKSHAY RAIKAR (1SG12CS400), MANOJ S(1SG11CS043) bonafide students of this institute, in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the academic year 2014-15. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

  
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## ABSTRACT

Interconnected systems, such as Web servers, database servers, cloud computing servers etc, are now under threads from network attackers. As one of most common and aggressive means, Denial-of-Service (DoS) attacks cause serious impact on these computing systems.

In this project, the presented DoS attack detection system uses Multivariate Correlation Analysis (MCA) for accurate network traffic characterization by extracting the geometrical correlations between network traffic features. This MCA-based DoS attack detection system employs the principle of anomaly-based detection in attack recognition.

This makes the given solution capable of detecting known and unknown DoS attacks effectively by learning the patterns of legitimate network traffic only. Based on Anomaly based detection technique, the entire network is checked using MCA for any anomaly that is disturbance which affects the traffic within the network. This type of detection can find a solution for DOS attacks within short amount of time for small or even large networks.