SAPTHAGIRI COLLEGE OF ENGINEERING

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Department of Computer Science and Engineering

Certificate

Certified that the Project Work entitled "APPLYING DATA MINING TECHNIQUES IN CYBER CRIME" carried out by **ABHIRAM T (1SG14CS003), ABHISHEK M (1SG14CS004) and KAUSHIK J SHETTY (1SG14CS041)**, bonafide students of **Sapthagiri College of Engineering**, in partial fulfillment for the award of **Bachelor of Engineering** in **Computer Science and Engineering** of **Visvesvaraya Technological University, Belagavi** during the academic year 2017-2018. 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 (10CS85)** prescribed for the said degree.

Signature of the Guide   Signature of the HOD   Signature of the Principal

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ABSTRACT

Globally the internet is been accessed by enormous people within their restricted domains. When the client and server exchange messages among each other, there is an activity that can be observed and tracked in detail of the activities that occur in a network that shows the, login and logout durations, the user's behaviour etc. There are several types of attacks occurring from the internet. In this work the first focus is to provide product recommendations based on the collaborative filtering and content based recommendations. In collaborative based recommendations the rating across the users is taken into consideration which is same for all the users. In Content based recommendations the recommendations related to the product are made based on the transactions performed by the end user. The Session tracking is performed for every click action and every navigation of the user and then behaviour based habitat file is generated. Two kinds of intrusion are detected one is behaviour change using Least Common Sub Square algorithm and then Dos Attack which is repeated action performed by the user within the limited time frame.