MAJOR PROJECT REPORT

On

MODELLING AND PREDICTING CYBER HACKING BREACHES

Submitted in partial fulfillment of the requirements for the award of degree of

BACHELOR OF TECHNOLOGY

In

COMPUTER SCIENCE AND ENGINEERING

By

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CERTIFICATE

This is to certify that the project work titled " **MODELLING AND PREDICTING CYBER HACKING BREACHES** " is a bonafide work done by **Ms. G. Varsha Reddy (17J41A0515), Ms. A. Priya Yadav (17J41A0543), Mr. T. Ranjith (17J41A0555), Mr. Y. Saketh (17J41A0558)** in the partial fulfillment of **Bachelor of Technology** in **Computer Science and Engineering** of the **Malla Reddy Engineering College (Autonomous)** affiliated to JNTUH, Hyderabad and that this has not submitted for the award of any other degree of any Institution/University.

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DECLARATION

We hereby declare that this project work dissertation titled " **MODELLING AND PREDICTING CYBER HACKING BREACHES** **"** is original and bonafide work of our own in the partial fulfillment of the requirements for the award of the degree of **Bachelor of Technology** in **Computer Science and Engineering** at **Malla Reddy Engineering College (Autonomous)**, affiliated to **JNTUH, Hyderabad** under the guidance of **Mr. M. Rakesh Reddy**, **Assistant Professor,** Department of CSE and has not been copied from any earlier reports.

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Abstract

Modeling and predicting cyber hacking breaches is an important, yet challenging, problem. In this we initiate the study of modeling and predicting cyber hacking breaches.in the present study we proposed a stochastic process model (ARIMA- auto regressive integrated moving average) to predict both hacking breach incident inter arrival times and breach sizes. Here we will use both qualitative and quantitative trend analysis on the data set.

Keywords:

ARIMA, Cyber Hacks, Security Breaches.

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