

16th May 2012

To whomsoever concern

This is to certify that Mr. Arabindu Dey, final year MCA, Department of Computer Science and Engineering, Tezpur University, Napaam, Tezpur-784028, Assam, has successfully completed his internship at C-DAC, Electronics City, Bangalore during January 2012 till May 2012. He was reporting to Mrs. Rajamenakshi who was coordinating his work during this period.

He carried out research in the field of Insider Attack Detection specifically to detect data-exfiltration. His specific contribution was in carrying out survey and implementing of a behaviour model based on Kernel Density Estimation and Karl Pearson's Correlation models using SNMP data. His work is commendable and has further research potential.



Subramanian N
Joint Director (Network Security)



16th May 2012

To whomsoever concern

This is to certify that Mr. Snehasish Roy, final year MCA, Department of Computer Science and Engineering, Tezpur University, Napaam, Tezpur-784028, Assam, has successfully completed his internship at C-DAC, Electronics City, Bangalore during January 2012 till May 2012. He was reporting to Mrs. Rajamenakshi who was coordinating his work during this period.

He carried out research in the field of Insider Attack Detection specifically to detect data-exfiltration. His specific contribution was in carrying out survey and implementing of a behaviour model based on Kernel Density Estimation and Karl Pearson's Correlation models using SNMP data. His work is commendable and has further research potential.



Subramanian N
Joint Director (Network Security)





DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING
TEZPUR UNIVERSITY

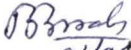
NAPAAM, TEZPUR - 784 028
ASSAM : INDIA

Ph. : 03712 - 267 007-009 Ext-
Fax : 03712 - 267 005/006
Email : @tezu.ernet.in

CERTIFICATE

This is to certify that the work presented in the report entitled ***Survey And Implementation Of Behavior Model For Detecting Data Exfiltration*** submitted in partial fulfillment of the requirement for the degree of Master of Computer Application (MCA), was carried out by **Arabindu Dey (CSM09007)** and **Snehasish Roy (CSM09049)** under my guidance. The work has not been submitted to any other institute for the award of any other degree or diploma.

Internal Guide:


01/06/2013
Dr. Bhogeswar Borah, Professor
Associate Professor
Department of Computer Science & Engg.
Tezpur University
Computer Science and Engineering
Tezpur Central University



**DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING
TEZPUR UNIVERSITY
TEZPUR 784028
ASSAM.**

CERTIFICATE

This dissertation entitled “**Survey And Implementation Of Behavior Model For Detecting Data Exfiltration**” submitted by Arabindu Dey(CSM09007) and Snehasish Roy (CSM09049) in partial fulfillment of requirements for the degree of Master of Computer Application (MCA) of Tezpur University has been examined.

Internal Examiner

Date:

04/06/12

Alam
Assistant Professor
Department of Computer Science & Engg.
Tezpur University

External Examiner

Date:

4/6/12
**EXTERNAL
EXAMINER**

ACKNOWLEDGEMENT

We express our deep and sincere gratitude to *Mr. N. Subramanian*, Joint Director, CDAC, Bangalore who has been our supervisor since the beginning of this study as well as the project. As an **Internal guide** we like to thank our respective *Dr. Bhogeswar Borah*, Associate Professor, Tezpur University, Department of Computer Science and Engineering, Tezpur University. This project had been far beyond completion without his exquisite support. We are greatly indebted for his valuable, constructive and critical guidance throughout the tenure of this project.

We would also like to express our solemnized gratitude and thanks to all my friends who had been by my side and pouring their valuable advice and encouragement. We are also thankful to them for their help in carrying the system testing and implementation and as well as in every step of the project.

Arabindu Dey(Roll No. CSM09007)
Snehasish Roy(Roll No. CSM09049)
MCA 6th Semester
Computer Science and Engineering.
Tezpur University