BEHAVIOUR-BASED MALWARE ANALYSIS AND DETECTION IN VIRTUAL INFRASTRUCTURES USING ONE-CLASS SVM ALGORITHM

A Project report submitted in partial Fulfilment of the requirements for the award of the Degree of

Master of Technology

In

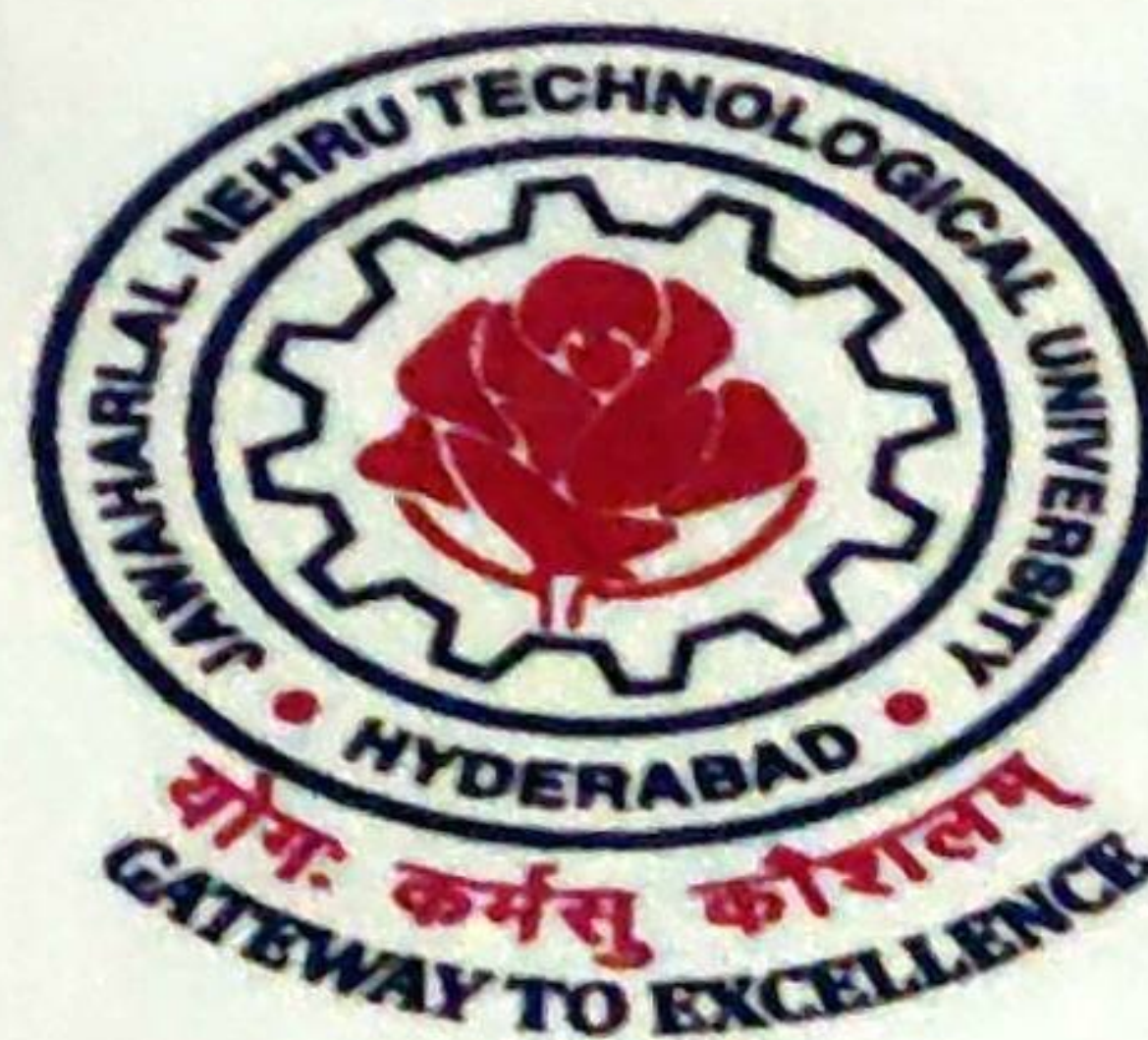**Cyber Forensics and Information Security**

By

VISHAL ADADA

(Roll No : 17011DA808)

Under the esteemed guidance of

Dr. R. SRIDEVI

Professor & Head of CSE Department

Department of Computer Science and Engineering

Jawaharlal Nehru Technological University Hyderabad

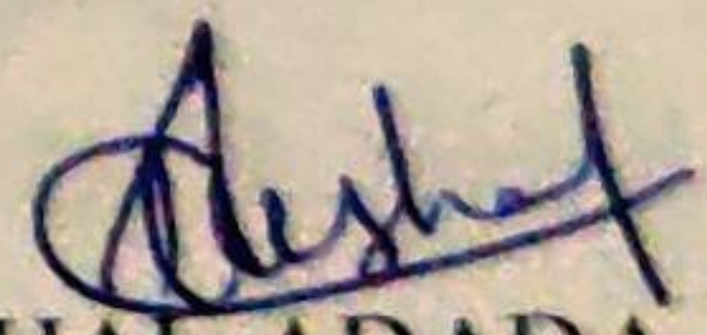**JNTUH College of Engineering, Hyderabad-500085**

2019

Department of Computer Science and Engineering

Jawaharlal Nehru Technological University Hyderabad

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DECLARATION BY THE CANDIDATE

I, **VISHAL ADADA**, bearing Roll no. 17011DA808, hereby declare that the major project report entitled **"Behaviour-based Malware Analysis and Detection in Virtual Infrastructures using One-class SVM Algorithm"** carried out by me under the guidance of **Dr. R. SRIDEVI**, Professor & Head of CSE Department is submitted for the award of the degree of **Master of Technology** in **Cyber Forensics and Information Security**. This is a record of bonafide work carried out by me and the results embodied in this project have not been reproduced or copied from any source. The results embodied in this project report have not been submitted to any other University or Institute for the award of any other degree or diploma.

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CERTIFICATE BY THE SUPERVISOR

This is to certify that the major project report entitled **"Behaviour-based Malware Analysis and Detection in Virtual Infrastructures using One-class SVM Algorithm"** being submitted by **Vishal Adada**, bearing Roll No : 17011DA808, in partial fulfilment of the requirements for the award of the degree of **Master of Technology** in **Cyber Forensics and Information Security**, is a record of bonafide work carried out by him. The results are verified and found satisfactory.

Dr. R. Sridevi,

Professor and Head,

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JNTUH College of Engineering Hyderabad.

Date :