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It is further certified that the student has fulfilled all the requirements of Comprehensive, Candidacy and SOTA.

Prof. RAJEEV SRIVASTAVA

Professor

Department of Computer Science and Engineering

Indian Institute of Technology

(Banaras Hindu University)

Varanasi-221005

DECLARATION BY THE CANDIDATE

I, GARGI SRIVASTAVA , certify that the work embodied in this thesis is my own bonafide work and carried out by me under the supervision of Prof. RAJEEV SRIVASTAVA from AUGUST-2016 to JANUARY-2020, at the DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, Indian Institute of Technology (BHU) Varanasi. The matter embodied in this thesis has not been submitted for the award of any other degree/diploma. I declare that I have faithfully acknowledged and given credits to the research workers wherever their works have been cited in my work in this thesis. I further declare that I have not willfully lifted up any other's work, paragraphs, text, data, results, etc., reported in journals, books, magazines, reports dissertations, theses, etc., or available at websites and included them in this thesis and cited as my own work.

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It is certified that the above statement made by the student is correct to the best of my/our knowledge.

Signature of Supervisor

(Prof. RAJEEV SRIVASTAVA)

**Department of Computer Science and Engineering
Indian Institute of Technology
(Banaras Hindu University)
Varanasi-221005**

Signature of Head of Department

(Prof. Rajeev Srivastava)

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