DECLARATION BY THE CANDIDATE

I, DURGESH SINGH certify that the work embodied in this thesis is my own

bonafide work and carried out by me under the supervision of Dr. Sanjay K. Singh

from July-2013 to July-2016, at the Department of Computer Science and Engineer-

ing, 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 de-

clare 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.

Date:

Signature of the Student

Place:

(DURGESH SINGH)

CERTIFICATE BY THE SUPERVISOR

It is certified that the above statement made by the student is correct to the best of

my/our knowledge.

Signature of Supervisor

(Dr. Sanjay K. Singh)

Signature of Head of Department

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