DECLARATION BY THE CANDIDATE

I, JAYADEEP PATI certify that the work embodied in this thesis is my own bonafide

work and carried out by me under the supervision of Dr. K K. Shukla from July-2012

to August-2017, in the Department of Computer Science and Engineering, Indian Insti-

tute of Technology (B.H.U.) 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 ac-

knowledged 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, thesis, etc., or available at websites and included them in this thesis

and cited as my own work.

Date:

Signature of the Student

Place:

(JAYADEEP PATI)

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. K K. Shukla)

Signature of Head of Department

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