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I, Md. Koushik Chowdhury, declare that the work embodied in this Ph.D.

thesis is my own bonafide work carried out under the supervision of Dr. Neeraj

Sharma and Dr. Shiru Sharma for a period of about 4 years and 10 months from

March 2011 to December 2015 at the School of Biomedical Engineering, Indian

Institute of Technology (Banaras Hindu University), Varanasi. The matter embodied

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