

CERTIFICATE

It is certified that the work contained in this thesis entitled “*OPTIMIZATION TECHNIQUES BASED ALGORITHMS FOR DE-NOISING, CONTRAST ENHANCEMENT AND SEGMENTATION OF MRI DATA*” has been carried out under my/our supervision and it has not been submitted elsewhere for a degree.

It is further certified that Munendra Singh has fulfilled all the requirements of Comprehensive Examination, Candidacy, and SOTA for the award of Ph.D. Degree.

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