

CERTIFICATE

It is certified that the work contained in the thesis titled "*Efficient Deep Architectures for HSI Classification using Contextual Spectral-Spatial Feature Learning*" by *Vinod Kumar*, Roll Number 18071013, has been carried out under my supervision and that this work has not been submitted elsewhere for a degree.

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


25/9/25

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DECLARATION BY THE CANDIDATE

I, **Vinod Kumar**, certify that the work embodied in this Ph.D. thesis is my own bona-fide work carried out by me under the supervision of **Prof. Ravi Shankar Singh** from **July 2018** to **May 2025** at **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 whenever and wherever their works have been cited in my work in this thesis. I further declare that I have not wilfully copied any others' work, paragraphs, text, data, results, etc., reported in journals, books, magazines, reports dissertations, theses, etc., or available at websites and have not included them in this thesis and have not cited as my own work.

Date: 25/09/2025

Place: Varanasi, India

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CERTIFICATE BY THE SUPERVISOR

This is to certify that the above statement made by the candidate is correct to the best of my knowledge.

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In loving memory of my grandfather,

Late Shri Ram Raj Saroj

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Vinod Kumar