



Manish Madhava Tripathi
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GOOGLE SCHOLAR: <https://scholar.google.com/citations?hl=en&user=33oCXhcAAAAJ->

Research Gate Citations: 150

Scopus Citations: 45

- **ORCID:** <https://orcid.org/0000-0003-3441-5733>

Web of Science ResearcherID : HPD-0121-2023

Google Scholar: h-index: **8**, i10-index: **8**

Profile

Professor in Computer Science with over 23 years of teaching and research experience in higher education. Expert in machine learning, digital image processing, and data science with significant contributions through research, publications, and supervision of doctoral students.

QUALIFICATION	<ul style="list-style-type: none">- PhD: Teerthanker Mahaveer University, Moradabad, 3-2018 - Medical Image Watermarking- M.Tech: AAI Deemed University, Allahabad, 2005, 75% (Honors)- B.Tech: VBS Purvanchal University, Jaunpur, 2001, 68.4%-AICTE-UGC PG Special Examination- Additional Certifications in Deep Learning, Machine Learning, and Database Management from IIT Kharagpur (NPTEL).
TEACHING/ RESEARCH/ ESTABLISHMENT EXPERIENCE	Total Experience: 23 Years (UG: 23 Years, PG: 19 Years, Post-Doctoral: 6 Years 10 Months)
PUBLICATIONS	<ul style="list-style-type: none">- Journal Papers: 46 (Published in SCI/WoS/Scopus and UGC CARE-listed journals)- Conference Papers: 28- Book Chapters: 16 -Patents : 03

	Research Projects: 02
RESEARCH GUIDED	a) Ph.D. :Awarded : 01; Submitted :01, Ongoing – 06. b) M.Tech : Awarded – 28
WORKSHOP/ QIP/ FDP/ SHORT COURSES	Attended : 50+ Conducted: 10 Keynote and Resource Person: 10
ACHIEVEMENTS/ RECOGNITIONS AT THE NATIONAL/ INTERNATIONAL LEVEL	Best Paper award: 02
REVIEWER	Actively reviewing for international journals and conferences including IEEE, ICBNA, ADSC, and ICHCSC, UPCON,IJDR
PROFESSIONAL MEMBERSHIPS	- IEEE (Senior Member) - Computer Society of India (Life Member) - International Association of Engineers (IAENG) -Society of DIWC

Research Interests

Data Science, ML,DL
Image and Healthcare Processing
Penetration Testing

Summary of Research Accomplishment

1. Innovative Medical Image Watermarking Techniques: Developed pioneering watermarking schemes for the protection and security of medical images. This includes reversible watermarking approaches and encryption tools aimed at safeguarding patient data in digital healthcare environments.
2. Machine Learning Applications in Healthcare: Designed and implemented machine learning frameworks for early-stage disease detection, including brain tumor identification using MRI images. This work has contributed to advancing predictive healthcare through image-based diagnostic models.
3. Big Data Analysis for Healthcare Optimization: Conducted extensive research on big data utilization within healthcare, analyzing data-driven solutions for improved healthcare delivery. Contributions include a detailed study on the role of big data in healthcare infrastructure, particularly in data security and patient data analysis.

4. Digital Image Processing in Security and Authentication: Created several frameworks for digital image processing applications, emphasizing secure and reliable methods for data encryption, decryption, and digital watermarking. Work includes innovative methodologies for facial recognition in maxillofacial surgery applications and personal identity authentication.

5. Book Chapters and High-Impact Publications: Authored multiple book chapters on advanced topics in digital image processing, healthcare data security, and big data applications. These contributions have been featured in SCOPUS and other indexed journals, enhancing knowledge dissemination in fields of machine learning and secure data management.

Courses Taught

- M.Tech: Mathematical Optimization, Machine Learning,
- B.Tech: Computer Algorithms, TOC, Compiler, Computer Graphics