

Dr. Vibha Tiwari

✉ vibhatiwari19@gmail.com

☎ +91-9229430179

🌐 <https://www.linkedin.com/in/dr-vibha-tiwari-834b>



Employment History

- Dec 2022 - Till date **Assistant Professor.** Centre for Artificial Intelligence, Madhav Institute of Technology and Science, Gwalior, (M.P.), India.
- Mar 2014 – Dec 2022 **Professor.** Electronics and Communication Engineering Dept. Technocrats Institute of Technology, Bhopal (M.P.), India
- Jul 2009 – Mar 2014 **Professor & Head of Department.** Electronics and Communication Engineering Department, Gyan Ganga Institute of Technology and Management, Bhopal, (M.P.), India.
- Aug 2008 – Jul 2009 **Reader & Head of Department.** Electronics and Communication Engineering Department, Acropolis Institute of Technology and Research, Bhopal, (M.P.), India.
- Aug 2001 – Apr 2008 **Assistant Professor & Head of Department.** Electronics and Communication Engineering Department, Bansal Institute of Science and Technology, Bhopal, (M.P.), India.
- Feb 2001 – Aug 2001 **Lecturer.** Electronics and Communication Engineering Department, Lakshmi Narayana College of Technology, Bhopal, (M.P.), India. .










Education

- 2012 **Ph.D. in Signal Processing / Speech Processing,** Electronics and Communication Engineering Department, Maulana Azad National Institute of Technology, Bhopal, (M.P.), India. Thesis title: *Development of Noise Robust Features using Wavelet Transform for Speaker Identification.*
Supervisor: Prof. Jyoti Singhai
- 2006 **M.Tech. in Digital Communication,** Electronics and Communication Engineering Department, Maulana Azad National Institute of Technology, Bhopal, (M.P.), India. Dissertation title: *Design and implementation of an algorithm to improve the performance of the Twofish algorithm for encryption and decryption.*
Supervisor: Prof. S.D. Sapre
- 2000 **B.E. in Electronics and Telecommunications,** Govt. Engineering College, Vikram University, Ujjain, (M.P.), India.
- 2025 **AICTE QIP PG Certificate Program in Artificial Intelligence and Machine Learning,** IIIT Lucknow.
- 2022 **PGDCA,** Makhanlal Chaturvedi National University of Journalism and Communication, Bhopal.
- Ongoing **Postdoctoral Researcher,** Linnaeus University, Sweden (Remote).

Research Publications



Journal Articles

- 1 V. Tiwari, "Revolutionizing workplace practices in human resource management with iot-enabled solutions and analytics," *Financial Technology and Innovation*, DOI: 10.54216/FinTech-I.020205.

- 2 V. Tiwari et al., "From muscle potentials to computer interfaces: A multiscale review of electromyography for clinical and computational applications," *Sensing and Bio-Sensing Research*, vol. 51, p. 100 969, 2026, ISSN: 2214-1804.  DOI: <https://doi.org/10.1016/j.sbsr.2026.100969>.
- 3 V. Tiwari et al., "Akshar mitra: A multimodal integrated framework for early dyslexia detection," *Frontiers in Digital Health*, vol. Volume 7, 2025, ISSN: 2673-253X.  DOI: [10.3389/fdgth.2025.1726307](https://doi.org/10.3389/fdgth.2025.1726307).
- 4 V. Tiwari et al., "An efficient sparse code shrinkage technique for ecg denoising using empirical mode decomposition," *Technology and Health Care*, p. 09 287 329 241 302 749, 2025.  DOI: [10.1177/09287329241302749](https://doi.org/10.1177/09287329241302749).
- 5 V. Tiwari et al., "Sustainable automated remote healthcare monitoring and alarming system based on internet of medical things," *International Journal of Applied Mathematics*, vol. 38, no. 5, pp. 713–723, 2025.  DOI: [10.12732/ijam.v38i5.960](https://doi.org/10.12732/ijam.v38i5.960).
- 6 K. S. Pokkuluri, V. Tiwari, J. Uikey, P. Mehta, C. S. Rao, and A. Thanuja, "Bridging the gap between technology and medicine through the revolutionary impact of the healthcare internet of things on remote patient monitoring," *Journal of Intelligent Systems and Internet of Things*, vol. 13, no. 2, pp. 212–222, 2024.  DOI: [10.54216/JISIoT.130217](https://doi.org/10.54216/JISIoT.130217).
- 7 V. Tiwari, C. Gowthami, B. R., S. Kayalvizhi, S. Selvakanmani, and D. C. Edara, "Strategic improved k-means clustering in mining blood donor data analysis and iot-based allocation," *Journal of Intelligent Systems and Internet of Things*, vol. 13, no. 1, pp. 122–134, 2024.  DOI: [10.54216/JISIoT.130110](https://doi.org/10.54216/JISIoT.130110).
- 8 V. Tiwari, D. Kiyawat, D. Jain, U. Mahor, and A. Yadav, "Stylometric analysis of genre in hindi literature," *International Journal on Recent and Innovation Trends in Computing and Communication*, vol. 11, pp. 2674–2680, 9 2023, ISSN: 2321-8169.  DOI: [10.17762/ijritcc.v11i9.9341](https://doi.org/10.17762/ijritcc.v11i9.9341).
- 9 V. Tiwari, S. More, S. Gulia, S. S. T, and M. Ramachandran, "Assessing medicinal plant extracts in strengthening anti-dandruff shampoo: An analysis using multi-criteria decision-making techniques," *International Journal of Pharmaceutical Quality Assurance*, vol. 14, pp. 1136–1143, 4 2023, ISSN: 0975-9506.  DOI: [10.25258/ijpqa.14.4.48](https://doi.org/10.25258/ijpqa.14.4.48).
- 10 V. Tiwari and A. Jain, "Fpga implementation of polar encoder-decoder for 5g artificial intelligence applications," *Journal of Information and Computational Science*, vol. 11, no. 9, pp. 527–535, 2021, ISSN: 1548-7741.
- 11 V. Tiwari and P. Shrivastava, "Design of 64-bit approximate multiplier algorithm based on compressors and data multipliers for high accuracy & speed," *Journal of Information and Computational Science*, vol. 11, no. 9, 2021, UGC-Care Group II Certified Journal, ISSN: 1548-7741.
- 12 V. Tiwari and S. Shukla, "Optimization design of partition multiplier based on brent kung adder," *International Journal of Research Technology*, vol. 9, no. 3, 2021.
- 13 V. Tiwari, "Survey on digital if filter with low complexity using multi-rate system," *Journal of Emerging Technologies and Innovative Research (JETIR)*, vol. 7, no. 9, 2020, ISSN: 2349-5162.
- 14 V. Tiwari and H. Singh, "Health care robots for elderly people at home: Past, present and the future," *International Journal of Advanced Science and Technology*, vol. 29, no. 3, pp. 15 053–15 061, 2020, ISSN: 2207-6360 (Online).  URL: <http://sersc.org/journals/index.php/IJAST/article/view/32122>.
- 15 V. Tiwari and S. Dufare, "Implementation of hybrid intrusion detection system in wireless sensors network," *International Journal of Innovative Trends in Engineering (IJITE)*, vol. 58, no. 1, 2019, ISSN: 2395-2946.
- 16 V. Tiwari and D. Kumar, "High security visual cryptography schemes for color share generation," *International Journal of Innovative Research in Science, Engineering and Technology*, vol. 8, no. 2, 2019.
- 17 V. Tiwari and P. Jha, "Design and performance analysis of a 3 junction solar cell using pcid," *International Journal of Advance Engineering and Research Development (IJAERD)*, vol. 5, no. 5, 2018.

- 18 V. Tiwari and S. Sahu, "A novel technique for spectrum sensing in cognitive radio networks," *International Research Journal of Engineering and Technology (IRJET)*, vol. 5, no. 11, 2018, ISSN: 2395-0056.
- 19 V. Tiwari and S. Sahu, "A review on energy detection techniques for cognitive radio over different fading channels," *INTERNATIONAL JOURNAL FOR RESEARCH DEVELOPMENT IN TECHNOLOGY*, vol. 10, no. 5, 2018, ISSN: 2349-3585.
- 20 V. Tiwari and J. Tiwari, "Design of matrix multiplication using partition multiplier method and modified full adder," *International Journal of Innovative Research in Science, Engineering and Technology*, vol. 7, no. 8, 2018, ISSN: 2347-6710.
- 21 V. Tiwari and A. Kanday, "Enhancement low power static random access memory: A review," *International Journal of Innovative Research in Technology Science*, vol. V, no. VI, 2017, ISSN: 2321-1156.
- 22 V. Tiwari, "Speaker identification using fourier bessel based feature extraction," *International Journal of Multi Disciplinary Research (IJMR)*, vol. 2, no. 10(II), 2014, ISSN: 2277-9302.
- 23 V. Tiwari and D. Ayachit, "Emergence of women entrepreneurship in india," *Human Rights, International Research Journal*, vol. 2, no. 1, 2014, ISSN: 2320-6942.
- 24 V. Tiwari, A. Chourasia, and A. S. Thakur, "A watershed segmentation process based on progressive median filtering and gradient map," *International Journal of Engineering and Advanced Technology (IJEAT)*, vol. 2, no. 6, 2013, ISSN: 2249-8958.
- 25 V. Tiwari, V. M. Karne, and A. S. Thakur, "Least mean square (lms) adaptive filter for noise cancellation," *International Journal of Application or Innovation in Engineering Management (IJAIEM)*, 2013, ISSN: 2319-4847.
- 26 V. Tiwari and J. Singhai, "Speaker identification using am demodulated speech signal," *International Journal of Electronics, Electrical and Communication Engineering (IJEECE)*, vol. 2, no. 3, pp. XX-XX, 2011, ISSN: 0975-4814.
- 27 V. Tiwari and J. Singhai, "Wavelet based noise robust features for speaker recognition," *Signal Processing: An International Journal (SPIJ)*, vol. 5, no. 2, 2011, ISSN: 1985-2339.
- 28 V. Tiwari, "Mfcc and its application in speaker recognition," *International Journal on Emerging Technologies (IJET)*, 2010, ISSN: 0975-8364.
- 29 V. Tiwari and J. Singhai, "Am-fm features and their application to noise robust speech recognition: A review," *IUP Journal of Telecommunications*, vol. 2, no. 1, pp. 7-19, 2010.
- 30 V. Tiwari and J. Singhai, "Feature extraction techniques for speech recognition," *International Journal of Electronics and Computers*, vol. 2, no. 1, 2010, ISSN: 0975-3796.


Conference Proceedings

- 1 V. Tiwari and D. Ayachit, "Indian women entrepreneurs: From challenges to success," in *International Conference on Women in Science and Technology (IConWiST)*, Tamkang University, Taipei, Taiwan, 15-17 Sept, 2013.
- 2 P. Kushwah, V. Tiwari, A. Gupta, and S. Fuskelay, "Photorealistic medical image super-resolution via adversarial networks," in *2025 International Conference on Engineering Innovations and Technologies (ICoEIT)*, 2025, pp. 703-709.  DOI: 10.1109/ICoEIT63558.2025.11211577.
- 3 P. Kushwah, V. Tiwari, S. K. Shukla, and A. Tiwari, "Advancements in eeg and emg signals for motor imagery classification and artifact removal: A comprehensive review and analysis," in *2025 IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI)*, IEEE, vol. 3, 2025, pp. 1-6.  DOI: 10.1109/IATMSI64286.2025.10984968.





- 4 A. Pandey, V. Tiwari, and A. Kushwaha, "Analyzing the rise of depression among college students through ai and factor mapping," in *2025 International Conference on Engineering Innovations and Technologies (ICoEIT)*, 2025, pp. 1316–1321. [DOI: 10.1109/ICoEIT63558.2025.11211633](https://doi.org/10.1109/ICoEIT63558.2025.11211633).
- 5 A. Tiwari, T. M. Dass, V. Tiwari, and B. P. Alapatt, "Exploratory analysis and pattern recognition in energy production and demand: A data-driven approach using multi-source energy metrics," in *2025 International Conference on Engineering Innovations and Technologies (ICoEIT)*, 2025, pp. 1418–1423. [DOI: 10.1109/ICoEIT63558.2025.11211558](https://doi.org/10.1109/ICoEIT63558.2025.11211558).
- 6 D. Kiyawat, V. Tiwari, and T. Dubey, "Enhancing flower classification with a deep learning approach using vgg19 and imagenet," in *2024 IEEE 2nd International Conference on Innovations in High Speed Communication and Signal Processing (IHCSP)*, IEEE, 2024, pp. 1–6. [DOI: 10.1109/IHCSP63227.2024.10960132](https://doi.org/10.1109/IHCSP63227.2024.10960132).
- 7 V. Tiwari, N. Jharbade, P. Chourasiya, B. Supraja, P. S. Wani, and R. Maurya, "Securing iot networks in healthcare for enhanced privacy in wearable patient monitoring devices," in *2024 International Conference on Intelligent Systems and Advanced Applications (ICISAA)*, IEEE, 2024, pp. 1–6. [DOI: 10.1109/ICISAA62385.2024.10828921](https://doi.org/10.1109/ICISAA62385.2024.10828921).
- 8 V. Tiwari and S. Haider, "Vlsi architecture for high tap if filter with low complexity using multi-rate approach," in *IEEE International Conference on Artificial Intelligence and Smart Systems (ICAIS)*, JCT College of Engineering and Technology, Coimbatore, 2021, ISBN: 978-1-7281-9537-7. [DOI: 10.1109/ICAIS50930.2021.9395863](https://doi.org/10.1109/ICAIS50930.2021.9395863).
- 9 V. Tiwari, "Efficient vlsi architecture for fir filter using vedic multiplier and kogge stone adder," in *International Conference on Emerging trends in computing technology and management*, 2019.
- 10 V. Tiwari and U. S. Patel, "High secure and low space data hiding and compression encryption through discrete shearlet transform and block coding algorithm," in *2019 International Conference on Vision Towards Emerging Trends in Communication and Networking (ViTECoN)*, VIT, Vellore, Tamil Nadu, India, 2019.
- 11 V. Tiwari and P. K. Singh, "Normalized log twicing function for dc coefficients scaling in lab colour space," in *IEEE International Conference on Inventive Research in Computing Applications (ICIRCA 2018)*, RVS College of Engineering, Coimbatore, Tamil Nadu, India, 2018, ISBN: 978-1-5386-2456-2. [DOI: 10.1109/ICIRCA.2018.8597293](https://doi.org/10.1109/ICIRCA.2018.8597293).
- 12 V. Tiwari and A. Thakur, "Design high speed fir filter based on complex vedic multiplier using cbl adder," in *IEEE International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering (ICRIEECE)*, KIIT, Bhubneshwar Odisha, India, 2018, ISBN: 978-1-5386-5995. [DOI: 10.1109/ICRIEECE44171.2018.9008438](https://doi.org/10.1109/ICRIEECE44171.2018.9008438).
- 13 V. Tiwari and A. Thakur, "Review paper on fir filter based on complex vedic multiplier using different types of adder," in *IEEE International Conference ICNTET*, Chennai, Tamil Nadu, India, 2018, ISBN: 2018978-1-5386-5630.
- 14 V. Tiwari, K. Patel, and D. Nandan, "Crosstalk mitigation of network on chip: An analytical review," in *IEEE International Conference on Electrical, Electronics and Optimization Techniques (ICEEOT)*, DMI College of Engineering, Chennai, Tamil Nadu, India, 2016. [DOI: 10.1109/ICEEOT.2016.7755393](https://doi.org/10.1109/ICEEOT.2016.7755393).
- 15 V. Tiwari and K. Khajwaniya, "Satellite image denoising using wiener filter with speaz algorithm," in *IEEE 9th International Conference on Intelligent Systems and Control (ISCO)*, 2015, pp. 1–6. [DOI: 10.1109/ISCO.2015.7282324](https://doi.org/10.1109/ISCO.2015.7282324).
- 16 V. Tiwari and M. Patel, "Asynchronous end-to-end traffic predictednoc design for interconnect energy reduction in mpsoc," in *International Conference ICSNS'2015*, SNS College of Technology, Coimbatore-35, 2015. [URL: ieeexplore.ieee.org/iel7/7279051/7292366/07292447.pdf](https://ieeexplore.ieee.org/iel7/7279051/7292366/07292447.pdf).
- 17 V. Tiwari, "Emergence of women entrepreneurship in india: An insight," in *International Conference on Women Empowerment – 2014 (ICWE-2014)*, Vijayawada, Andhra Pradesh, India, 2014.

- 18 V. Tiwari, "Speaker identification using fourieressel based feature extraction technique," in *International conference for researchers (INAAR)*, Dubai, 2014.
- 19 V. Tiwari, "Ethics in engineering," in *International Conference Search and Research Youth Congress 2012 (SARYC – 2012)*, Samanvay Bhawan, New Market, Bhopal(M.P.), India, 2012.
- 20 V. Tiwari, "Feature extraction technique for speaker recognition using am demodulation of speech signal," in *Proceedings of the IEEE Sponsored National Conference on Recent Trends in Signal Processing and VLSI Design (RTSPV-2010)*, Gyan Ganga Institute of Technology and Management, Bhopal, India, Nov. 2010.
- 21 V. Tiwari, "Feature extraction techniques," in *International Conference on Trends and Advances in Computation & Engineering (TRACE-2010)*, Barkatullah University Institute of Technology, Bhopal (M.P.), India, 2010.
- 22 V. Tiwari, "Comparison of different implementations of mfcc," in *Proceedings of the National Conference at Oriental Institute of Science and Technology*, Bhopal, India, Feb. 2009.
- 23 V. Tiwari, "Gaussian mixture modeling for speaker recognition," in *Proceedings of the National Conference at Gyan Ganga Institute of Technology and Management*, Gyan Ganga Institute Of Technology and Management, Bhopal, India, Nov. 2009.
- 24 V. Tiwari, "Speech analysis," in *TECHNOSAGA Conference*, Sagar Institute of Research and Technology, Bhopal, India, Sep. 2009.
- 25 V. Tiwari, "Wavelet transforms and its application to speaker recognition: A review," in *ATEMT-09 National Conference*, Shri Ramdeo Baba Kamla Nehru College of Engineering, Nagpur, India, Nov. 2009.
- 26 V. Tiwari, "Speech recognition using hidden markov model," in *Proceedings of the National Conference on Electronics and Communication Engineering*, BRCM College of Engineering and Technology, Bahal, Haryana, Oct. 2008.
- 27 V. Tiwari, "Wake on wlan," in *Proceedings of the National Conference on Electronics and Communication Engineering*, BRCM College of Engineering and Technology, Bahal, Haryana, Oct. 2008.
- 28 V. Tiwari, D. J. Singhai, and S. Chaman, "Speech coding and synthesis by harmonically related gaussian energy vectors," in *International Conference WECON*, Chitkara Institute of Engineering and Technology, Rajpura, Punjab, India, 2008.

Books and Chapters





- 1 S. Banakhede, V. Tiwari, and V. Kumar, *A Comprehensive Study of Pre-trained Deep Learning Models in Skin Disease Classification*. Springer Nature Switzerland, 2026, pp. 16–37, ISBN: 978-3-032-18293-7.
- 2 V. Tiwari, A. Gupta, O. Saxena, R. Gupta, S. K. Shukla, and A. Khamparia, *Liver Tumor Segmentation with U-Net, V-Net, and AH-Net Using MONAI*. Springer Nature Singapore, 2025, pp. 63–76, ISBN: 978-981-96-3333-3.  DOI: 10.1007/978-981-96-3333-3_6.
- 3 V. Tiwari, "Fourieressel and wavelet based feature extraction technique (fbwbf) for speaker identification," in *Signal Processing: New Research*, Unknown, Ed., Hauppauge, New York: Nova Science Publishers Inc., Jan. 2013, Unknown, ISBN: 978-1-62808-157-2.
- 4 V. Tiwari and A. Thakur, *Voice and Data Communication*, First. New Delhi: Dhanpat Rai & Co., Sep. 2013.
- 5 V. Tiwari, *Information Theory & Coding*, First. New Delhi: Dhanpat Rai & Co., Jan. 2008.

Patents





- 2024  **Electronic Health Monitoring Device**, Design Certificate No: 430983-001, Filed on 19/09/2024, Granted on 11/11/2024.
- 2022  **Microchannel Heat Sink with RIBS**, Design Certificate No: 371223-001, Filed on 22/09/2022, Granted on 29/12/2022.
-  **Mechanical System with IR Sensor Based Circuit to Generate Electricity**, Patent No: 202241005492, Filed on 01/02/2022, Published on 11/02/2022.
-  **MEDIROBO: A Humanoid Robot for Medical Assistance Based on Artificial Intelligence Learning Methods**, Patent No: 202221011919, Filed on 04/03/2022, Published on 22/04/2022.

Affiliations and Peer Review Contributions




Professional Affiliations

-  **Life Member**, Indian Society for Technical Education (ISTE).
-  **Life Member**, IETE; **Executive Member**, IETE Bhopal Centre (2022).
-  **Member**, IEEE.
-  **Member**, Women in Science and Engineering (WISE), India.

Reviewer










-  **Reviewer**, Computer Methods and Programs in Biomedicine, Elsevier.
-  **Reviewer**, Digital Communication and Networks, Elsevier.
-  **Reviewer**, Circuits, Systems and Signal Processing (CSSP), Springer.
-  **Reviewer**, Engineering Applications of Artificial Intelligence, Elsevier

Skills

- Languages  Reading, writing, and speaking competencies in English, and Hindi.
- Coding  Python Programming Language, NumPy, Pandas, MATLAB, R, LabView Software, STEP5, STEP7 and MICROWIN software for PLC programming, \LaTeX
- Misc.  Academic research, teaching, training, consultation







Miscellaneous Experience

Awards and Achievements

- 2010-11  **Young Scientist Award**, Council of Science and Technology, Government of M.P.
- 2023  **NPTEL Star: NPTEL ENTHUSIASTS**, IIT Madras.
-  **Topper in NPTEL Online Certification on Learning Analytics Tools.**
-  **NPTEL Star: NPTEL BELIEVERS**, IIT Madras.
- 2024  **NPTEL Star: NPTEL DOMAIN SCHOLARS in Data Science (Computer Science)**, IIT Madras.
-  **NPTEL Star: NPTEL DISCIPLINE STARS in Computer Science and Engineering**, IIT Madras.
-  **NPTEL Star: NPTEL MOTIVATED LEARNERS**, IIT Madras.
-  **Topper in NPTEL Online Certification in Fundamentals of Artificial Intelligence.**
- 2025  **Inspirational/Innovative Teacher Award (State-Level Category)**, conferred by **Dainik Bhaskar**, a leading national newspaper. Recognized as one among **40 distinguished teachers selected nationwide**.

Miscellaneous Experience (continued)





Grants Received

- 2013  **International Travel Grant**, MP Council of Science and Technology, India, for presenting a paper at ICONF 2013, WiST, Taipei, Taiwan.
- 2013  **Grant in Aid**, MPCST, for organizing a workshop on “Cryptography and its Applications”.
- 2015  **Grant in Aid of Rs. 42,000**, MPCST, for organizing “National Conference on Recent Research and Innovations in Electronic & Communication Engineering”.
- 2019  **Competitive/Collaborative Research Fund of Rs. 3.0 Lac**, TEQIP-III, RGPV, for the project “MEDIROBO – A Smart Humanoid Robot for Medical Assistance”.
- 2019  **Grant of Rs. 1.5 Lac**, TEQIP-III, RGPV, for organizing a faculty development program on “A Practical Approach to Signals and Systems”.
- 2025  **Motor Imagery – AI-based NeuroMotor Fusion for Assistive Rehabilitation**, sanctioned under the **Innovative Research Scheme 2025** of **Madhav Institute of Technology and Science–DU**. **Sanctioned Amount:** 2,98,000; **Sanction Date:** 4 June 2025.

Certification

- 2018  **NPTEL Online Certification on Digital Circuits with Elite+Silver Certificate**, IIT Madras.
- 2020  **Completed International Certified Career Coach Program**, by Mindler (India) and Career Development Alliance CDA(USA).
- 2020  **Completed Online Orientation Training Program for Mentors**, National Initiative for Technical Training, NITTR, AICTE, New Delhi, 29th June - 4th July 2020.
- 2023  **NPTEL Online Certification on Joy of Computing Using Python**, IIT Madras.
- 2023  **NPTEL Online Certification on Python for Data Science with Elite Certificate**, IIT Madras.
- 2023  **NPTEL Online Certification on Data Analytics using Python with Elite+Silver Certificate**, IIT Madras.
- 2023  **NPTEL Online Certification on Corporate Social Responsibility with Elite Certificate**, IIT Madras.
- 2023  **NPTEL Online Certification on Introduction to Machine Learning-IIT KGP with Elite+Silver Certificate**, IIT Madras.
- 2023  **NPTEL Online Certification on Learning Analytics Tools with Elite+Silver Certificate**, IIT Madras.
- 2023  **NPTEL Online Certification on Accreditation and Outcome-Based Learning with Elite+Silver Certificate**, IIT Madras.
- 2023  **NPTEL Online Certification on Computer Architecture with Elite Certificate**, IIT Madras.
- 2024  **NPTEL Online Certification on Deep Learning with Elite Certificate**, IIT Madras.
- 2024  **NPTEL Online Certification on Natural Language Processing**, IIT Madras.
- 2024  **NPTEL Online Certification on Introduction to machine learning with Elite Certificate**, IIT Madras.
- 2024  **NPTEL Online Certification on Fundamentals of Artificial Intelligence with Elite+Silver**, IIT Madras.

Other Achievements

- 2026  **Expert Lecture**, AI-Driven Multimodal Intelligence for Sustainable Natural Resource Risk Management, organized by the School of Agriculture, ITM University, Gwalior, 9–10 January 2026.
- 2026  **Expert Lecture**, Artificial Intelligence and Designed Innovation, delivered in the Yuva Sammelan organized by the Poornawad Yuva Forum, Gwalior, 1 March 2026.
- 2025  **Expert Lecture**, The Art of Prompt Engineering: Transforming Teaching with AI, in one week professional development program on "Mastering edge analytics and prompt engineering for innovations in teaching and learning, 11-15th February 2025, organised by Vardhman College of Engineering, Hyderabad.
- 2024  **Session Chair** 2024 IEEE 2nd International Conference on Innovations in High Speed Communication and Signal Processing (IHCSPP), Maulana Azad National Institute of Technology, Bhopal, 6th-8th December 2024.

Miscellaneous Experience (continued)

- 2023 ■ **Expert Lecture**, Use of Artificial intelligence to tackle problems in Agriculture on Artificial Intelligence appreciation day, School of agriculture, ITM University, Gwalior 16 July 2024.
- 2023 ■ **Nodal Coordinator**, Virtual Lab, IIT Roorkee.
- 2021 ■ **Session Chair**, '1st IEEE International Conference on Innovations in High-Speed Communication and Signal Processing (IEEE-IHCSP 2023)', Maulana Azad National Institute of Technology, Bhopal, 4th-5th March 2023.
- 2021 ■ **Primary Evaluator**, TOYCATHON 2021, under the 'AatmaNirbhar Bharat Abhiyan' initiative by the Hon'ble Prime Minister, Shri Narendra Modi.
- 2021 ■ **Session Chair**, IETE National Conference on VLSI Communication and Signal Processing (NCVCS 2021), Maulana Azad National Institute of Technology, Bhopal, 27th-28th November 2021.
- 2020 ■ **Expert Lecturer**,(i) ICT in Education (ii) ICT tools and Resources in Two-week Online Refresher Course on Information Technology Awareness and Application, UGC – Human Resource Development Centre, Gurukul Nanak Dev University, Amritsar, 21st October - 3rd November 2020.
- 2014 ■ **Session Chair**, ICIREMPS 2k14 International Conference on Interdisciplinary Research in Engineering, Management, Pharmacy, and Science, Sagar Group of Institutions, Bhopal, 20th-23rd February 2014.

References

Available on Request