



Dr. Nehal Ahmad

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Village: Sontha

Kochadhaman, Kishanaganj

Bihar, India, 855115

EDUCATION

Ph.D. (Awarded)

September 2020 - August 2023

Machine Learning

Department of Electrical Engineering and Computer Science,

National Taipei University of Technology, Taiwan

IIT Indore, India.

Thesis Title: Ubiquitous Computational Algorithms for the Diagnostic of Retinal Vascular Disorders and their Arithmetical Analysis.

M.S. (Gold Medalist)

September 2018 - June 2020

Artificial Intelligence

Department of Electrical Engineering and Computer Science,

National Taipei University of Technology, Taiwan.

Bachelor of Computer Engineering

January 2016

Department of Computer Engineering, Faculty of Engineering and Technology

Jamia Millia Islamia, Central University, New Delhi, India.

Diploma in Functional Arabic (2 Years, part time)

September 2012 - June 2014

National Council for the Promotion of Urdu Language

Ministry of Education, Department of Higher Education,

Government of India.

Hifz Al Qur'an-e-Kareem

Madarsa Uthman bin Affan Litahfeezul Quran,

Kishanganj Bihar India

July 2002

ACADEMIC EXPERIENCE

1. **Assistant Professor** July 2024 - to date
Department of Computer Engineering, Faculty of Engineering and Technology, Jamia Millia Islamia, Central University, New Delhi, India.
2. **Assistant Professor** January-July, 2024
Department of Computer Science and Engineering,
Presidency University, Bangalore, India.

Courses Teaching/taught at PG level

- *Generative AI* M. Tech. (II Sem.)
- *Cloud Computing* M. Tech. (I Sem.)
- *Machine Learning Algorithms* M. Tech.

Courses Teaching/taught at UG level

- Natural Language Processing B. Tech. (VIII Sem.)
- *Parallel and Distributed Computing* B. Tech. (VII Sem.)
- Fundamentals of Computing B. Tech. (I & II Sem.)
- Neural Networks and Fuzzy Logic B. Tech.
- Operating Systems with Linux Internals B. Tech.
- *UI-UX Design* BCA

Administrative Responsibilities in PU Bangalore

1. Instructor's In-charge M. Tech, Machine Learning Algorithms.
2. Chairperson, Class Coordinator and Class Committee Members.
3. Class Coordinator B. Tech 6th Semester.

TEACHING ASSISTANTSHIP

Teaching Assistant: Building Deep Learning Applications, Spring 2021, National Taipei University of Technology, Taiwan.

PUBLICATIONS

JOURNALS

- **N. Ahmad**, K-T. Lai and M. Tanveer “*Retinal Blood Vessel Tracking and Diameter Estimations via Gaussian Process with Rider Optimization Algorithm*,” IEEE Journal of Biomedical and Health Informatics (2022) (**I.F = 7.700**)
- M. Tanveer, M.A. Ganaie, Iman Beheshti, Tripti Goel, **Nehal Ahmad**, Kuan-Ting Lai, Kaizhu Huang, Yu-Dong Zhang, Javier Del Ser, Chin-Teng Lin “*Deep Learning for Brain Age Estimation: A Systematic Review*,” Information Fusion (arXiv preprint arXiv:2212.03868), 130-143 (**I.F = 18.600**)
- MA Ganaie, M Tanveer, I Beheshti, **N Ahmad**, PN Suganthan “*Heterogeneous Oblique Double Random Forest*”, Pattern Recognition, arXiv preprint arXiv:2304.06788 (**I.F = 8.518**) (Revision Submitted)

CONFERENCES

- **N. Ahmad**, M. A. Ganaie, A.K. Malik, K-T. Lai and M. Tanveer, “*Minimum Variance Embedded Intuitionistic Fuzzy Weighted Random Vector Functional Link Network*,” International Conference on Neural Information Processing (ICONIP 2022). **Best Paper Award** and Prize Money of 400 USD.

- **N. Ahmad** and K-T. Lai, “*Deep residual network-based sentiment analysis of amazon cell phone reviews*,” Machine Intelligence and Signal Processing, Springer, 2022, pp. 815–828
- Md. Nahid Akhtar, Prof. Abid Haleem, Dr. Mohd Javaid, **Nehal Ahmad**, Zafar Husain ”Challenges in Logistics within the Medical 4.0 Environment: A DEMETAL Approach” IEEE Global Congress on Emerging Technologies (GCET 2024), Gran Canaria, Spain,

RESEARCH AREA

Machine Learning, Optimization, RVFL, Biomedical Applications of ML

HONORS AND AWARDS

- Gold Card (Citizenship by Govt. of Taiwan) by virtue of excellent academic achievements.
- Best Research Paper Award in “The 29th International Conference on Neural Information Processing (ICONIP 2022)” with an honorarium of 400 USD, November 22-26, 2022
- International Graduate Scholarship, National Taipei University of Technology, Taiwan, September 2020 - August 2022.
- Award of Excellence with an honorarium of 1000\$, Department of Electrical Engineering and Computer Science, National Taipei University of Technology, Taiwan, 2020.
- Ministry of Education fellowship award, Government of Taiwan, September 2018 - Aug 2020.
- Certificate of Recognition: Model United Nations (MUN) Club, National Taipei University of Technology, Taiwan, General Secretary, 2018 - 2019.
- Certificate of appreciation, Autonomous Robotics Workshop (ARW) organized by Eklavya Innovation, Department of Computer Science, Jamia Millia Islamia, Central University, New Delhi, India, 2011.
- Certificate of appreciation, subject association University Polytechnic, Jamia Millia Islamia, Central University, New Delhi, India, 2011.
- Bronze medal and a certificate of appreciation, Common Wealth Games Delhi Volunteer Program, 2010.
- 3rd Prize winner, easy writing competition, Directorate of field publicity, Ministry of Information and Broadcasting, Govt. of India, 2007.
- Certificate of Appreciation for Leading Traweeh prayers during Ramadhan (2019, 2021) Taipei Grand Mosque, Taipei City, Taiwan
- *Certificate of appreciation, All India Musabaqa-e-Hifz-o-Tajweed wa Tafseer-e-Quran-e-Kareem, Jami’at Ahl-e-Hadeeth Hind 2008, 2009.*

CONTRIBUTED TALKS

- Presented paper in ICONIP-2022: **N. Ahmad**, M. A. Ganaie, A.K. Malik, K-T. Lai and M. Tanveer, “Minimum Variance Embedded Intuitionistic Fuzzy Weighted Random Vector Functional Link Network,” International Conference on Neural Information Processing (ICONIP 2022). (Core Rank A)
- Presented paper in MISP-2021: **N. Ahmad** and K.-T. Lai, “Deep residual network-based sentiment analysis of amazon cell phone reviews.” International Conference on Machine Intelligence and Signal Processing (MISP 2021).



Nehal Ahmad

National Taipei University of Technology, Taiwan | [Indian Institute of Technology Indore](#), India

Verified email at iiti.ac.in

[Machine Learning](#) [Deep Learning](#) [Optimization](#) [RVFL](#)

[Biomedical and Health informatics](#)

ARTICLES

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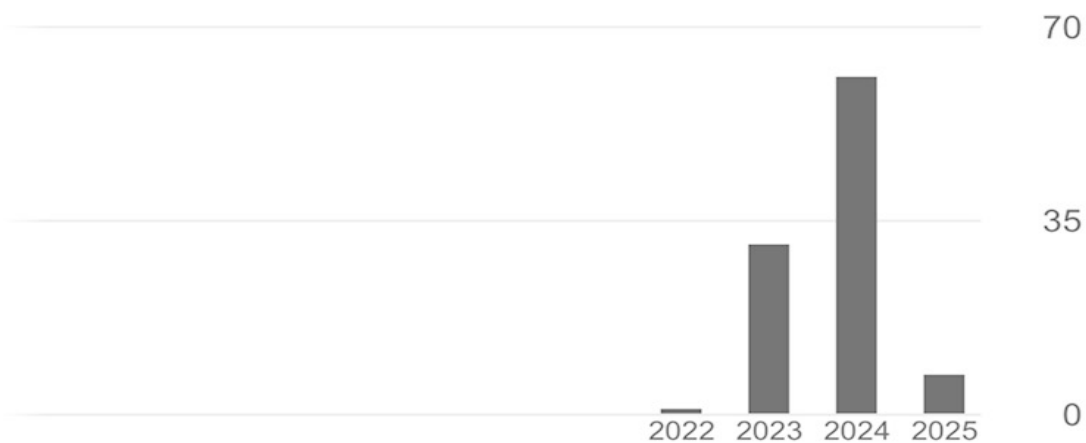
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INVITED TALKS

- Delivered a talk in the Department of Data Science & Analytics, Central University Rajasthan, India.

REVIEWER IN JOURNALS

- Serving as a reviewer of the IEEE Journal of Biomedical and Health Informatics (formerly IEEE Transaction).
- Serving as a reviewer of the Journal of Imaging Informatics in Medicine (Springer).
- Serving as a reviewer of the Journal of Artificial Intelligence and Applications.

LANGUAGES KNOWN

1. Technical Proficiency: English, Urdu, Hindi
2. Basic Level: Arabic, Bangla
3. Beginner Level: Mandarin

REFERENCES

1. Professor M. Tanveer (Ph.D supervisor), Indian Institute of Technology Indore, India
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2. Dr. Kuan Ting Lai (Ph.D supervisor), Associate Professor, National Taipei University of Technology, Taiwan
Email: ktlai@ntut.edu.tw <https://ece.ntut.edu.tw/p/405-1071-79813,c2678.php?Lang=en>
3. Professor (Retired) N. Sundararajan, Nanyang Technological University, Singapore
Former ISRO Scientist
B.E (Hons) (Madras); M.Tech (IIT-M), Ph.D (Illinois)
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4. Professor Bashir Alam, former HoD, Department of Computer Engineering, Jamia Millia Islamia New Delhi, India
Email: balam2@jmi.ac.in
https://jmi.ac.in/ACADEMICS/Departments/Department-Of-Computer-Engineering/Faculty-Members/1767/Bashir_Alam/
5. Professor. Gopal K. Shyam, HoD: COM & CEI, School of Computer Science and Engineering, Presidency University Bengaluru, Karnataka India 560064
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