



Neha Agarwal

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Profile

Neha Agarwal is an accomplished academician, researcher, and technology educator with over **14 years of experience in teaching, research, and academic development** in the field of Computer Science and Engineering. Her professional journey reflects a strong commitment to academic excellence, emerging technologies, interdisciplinary research, and the development of innovative solutions in Artificial Intelligence, Machine Learning, Cyber Security, Data Science, and intelligent computing. Currently serving as an **Assistant Professor at The ICFAI University, Jaipur**, Neha Agarwal has contributed extensively to teaching, research, curriculum development, student mentoring, academic administration, and professional activities.

Neha Agarwal possesses a strong academic foundation in Computer Science and Engineering. She completed her **B.E. in Computer Science and Engineering from D.K.T.E.'s Textile & Engineering Institute, Ichalkaranji, affiliated with Shivaji University, Kolhapur, in 2009**, followed by an **M.Tech. in Computer Science and Engineering from Jagannath University, Jaipur, in 2015**, where she secured **71.36% marks and was awarded the Gold Medal**. She is currently pursuing her **Ph.D. in Computer Science and Engineering at JECRC University, Jaipur**, having enrolled in 2023. Her academic achievements also include securing the **second position in Shivaji University and her college during B.E.**

Neha Agarwal's professional career spans more than a decade across reputed academic institutions. She has been serving as an **Assistant Professor at The ICFAI University, Jaipur, since August 2023**. Prior to this, she served at **Vivekananda Global University, Jaipur, Jaipur National University, Jaipur, Baldev Ram Mirdha Institute of Technology (BMIT), Jaipur, Poddar Institute of Technology, Jaipur, and Sharad Institute of Technology, College of Engineering, Ichalkaranji, Maharashtra**. During her career, she has undertaken responsibilities extending beyond classroom teaching, including academic coordination, curriculum development, examination-related activities, student mentoring, committee responsibilities, and institutional initiatives.

The core of Neha Agarwal's academic and research profile lies in **Artificial Intelligence, Machine Learning, Cyber Security, Data Science, Intelligent Systems, and emerging computing technologies**. Her research contributions demonstrate an interdisciplinary orientation, with applications spanning network security, anomaly detection, healthcare, IoT, soft robotics, topic modelling, malicious-domain identification, and intelligent communication networks. Her recent research particularly reflects her interest in applying machine learning and artificial intelligence techniques to address contemporary challenges in cybersecurity and intelligent systems.

Her publication portfolio includes research articles in **Scopus-indexed journals and international conference proceedings**. Her recent work includes *"Machine Learning-Driven Hybrid Framework for Real-Time Identification and Risk Assessment of Malicious Domains,"* focusing on intelligent approaches for cybersecurity and malicious-domain analysis. She has also contributed research on **topic modelling in the age of Transformers**, examining modern NLP techniques, applications, and open research challenges. Her earlier research includes *"The Application of Machine Learning Technique to the Detection and Management of Soft Robots"* and *"Research on IIoT Security: Novel Machine Learning-Based Intrusion Detection Using TCP/IP Packets,"* demonstrating her interest in applying intelligent computational techniques to emerging technological domains.

Neha Agarwal has also made significant contributions through **international conference publications and scholarly book chapters**. Her conference research includes work on artificial intelligence-based data detection models for complex data communication networks and IoT-assisted smart farming using data science techniques, published through IEEE-associated conferences. Her book-chapter contributions include research on **prompt optimization for Large Language Models, machine learning for healthcare, quantum key distribution protocols, CNN-based anomaly detection for cybersecurity, and network attack detection**. These publications reflect her continued engagement with rapidly evolving areas such as Generative AI, Large Language Models, Quantum Computing, Cyber Security, and AI-enabled healthcare.

Her research contributions also extend into **intellectual property and academic publishing**. Neha Agarwal is associated with the patent “*Medical Device for Rapid Detection of Cancer Biomarkers in Saliva*,” published in September 2025. She has also authored the book “*Text Book of Basics of Python Programming for Pharmaceutical Sciences*,” published by Shashwat Publication in 2026, aligned with the B.Pharm NEP-2026 syllabus of the Pharmacy Council of India.

A notable aspect of Neha Agarwal's professional development is her continuous engagement with **emerging technologies and advanced faculty development programmes**. She has completed and participated in FDPs and training programmes covering **Object-Oriented Programming, Artificial Intelligence, Generative AI, Agentic AI, Cyber Security, Machine Learning, Cyber Security and Privacy, Cloud Infrastructure, AI in Healthcare, Big Data Analytics, Data Science, Research Methodology, Statistical Tools, and AI tools in higher education**. Her recent professional development includes programmes conducted by organizations and institutions such as **NPTEL IIT Roorkee, NPTEL IIT Madras, AICTE ATAL Academy, IBM SkillsBuild, UGC-MMTTP, LNMIIT, Manipal University, and NITTTR Chandigarh**.

Beyond teaching and research, Neha Agarwal has demonstrated active involvement in **academic administration, professional review activities, curriculum development, and institutional responsibilities**. She has contributed as a reviewer for international conferences, including the **World Conference on Computational Science and Technology (WcCST-2026)** and the **International Conference on Smart Technologies and Intelligent Computing (INCSTIC 2025)**. She has also served as a Technical Program Committee reviewer, worked as a paper setter for university examinations, and participated in curriculum development activities aligned with **NEP 2020**.

At The ICFAI University, Jaipur, Neha Agarwal is actively involved in academic and institutional responsibilities, including serving as a **member of the UFM Committee and Coordinator for the CRC Committee**. Her administrative and academic contributions demonstrate her ability to combine teaching and research responsibilities with institutional leadership and student-oriented activities. She has also successfully conducted a **Soft Skill Training Program**, reflecting her commitment to holistic student development and employability enhancement.

Neha Agarwal's academic accomplishments include **Gold Medal in M.Tech. (Computer Science and Engineering)**, securing the **second position in Shivaji University and her college during B.E.**, serving as a **Department Head at Sharad Institute of Technology, College of Engineering**, and contributing as an **External Examiner for practical examinations and answer-script evaluation at Shivaji University**. She is also a **Lifetime Member of the International Association of Engineers (IAENG)**, reflecting her continued engagement with the wider professional engineering and academic community.

With a combination of **academic experience, research expertise, scholarly publications, emerging-technology orientation, professional development, and institutional responsibilities**, Neha Agarwal continues to contribute to the advancement of Computer Science and Engineering education. Her professional interests are particularly aligned with the evolving landscape of **Artificial Intelligence, Machine Learning, Cyber Security, Generative AI, Data Science, Intelligent Systems, and emerging digital technologies**, positioning her as an active academic contributor committed to research-driven education and innovation.