

Dr. Manju Sharma

Ph.D. | Assistant Professor

College of Engineering & Computer Science, Jazan University, Kingdom of Saudi Arabia

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PROFILE SUMMARY

Academic professional with 21+ years of teaching, research, and administrative experience in Computer Science. Currently serving as Assistant Professor at Jazan University with extensive leadership experience as Department CIO. Strong record of international journal publications, IEEE conference papers, patents, and academic service. Actively engaged in curriculum development, student supervision, and advanced research in AI, Big Data, Cloud Computing, and Cyber Security.

ACADEMIC QUALIFICATIONS

- ✓ Ph.D. in Computer Science – Malwanchal University, India (2022)
- ✓ M.Sc. in Computer Science – Maharshi Dayanand University, India (2005)
- ✓ Bachelor's Degree – MJP Rohilkhand University, Bareilly, India (1998)

Employment History

TEACHING EXPERIENCE (21+ YEARS)

Undergraduate and postgraduate teaching in Computer Science and Information Technology. Courses include Artificial Intelligence, Machine Learning, Database Systems, Big Data Analytics, Cloud Computing, Operating Systems, Software Engineering, and Programming Languages.

- ✓ Assistant Professor, College of Engineering & Computer Science, Jazan University, Saudi Arabia (December 2012 – Till Date).
- ✓ Department CIO (Female Campus), College of Computer Science and Information Technology, Jazan University, Saudi Arabia (October 2015 – August 2018; August 2020 – April 2024).
- ✓ Faculty cum Senior Software Engineer, SSI Ltd. (July 2005 – August 2010).
- ✓ Faculty Member, Wilsonia College, Moradabad (MBD), Uttar Pradesh, India (1998 – 2001).

ADMINISTRATIVE & LEADERSHIP ROLES

- Department CIO (Female Campus), Jazan University – Oct 2015–Aug 2018 & Aug 2020–Apr 2024

- Head, Graduation Project Committee
- Academic Advisor for Undergraduate Students
- Member, Quality Assurance Unit
- Member, University Schedule Committee
- Responsible for staff workload allocation, timetabling, and departmental administration
- Planning and implementation of IT systems and academic technology infrastructure

RESEARCH & SCHOLARLY CONTRIBUTIONS

Published extensively in international journals and IEEE conferences. Research focuses on Artificial Intelligence, Machine Learning, Big Data Analytics, Cloud Computing, Blockchain, Cyber Security, and IoT.

Research Metrics (Indicative)

- Total Publications : 26
- Total Citations : [107]
- h-index : [6]

My work reflects interdisciplinary relevance and applied research impact, supporting institutional research goals

A. Journal & Conference Publications

- ❖ MACHINE LEARNING FRAMEWORK FOR DYNAMIC PRICING: INTEGRATING LSTM FORECASTING AND REINFORCEMENT LEARNING OPTIMIZATION, MEHULKUMAR H KANTARIA, DR. MANJU SHARMA, DR. B SIVA LAKSHMI, S. KRISHNAKUMARI, MOLIGI SANGEETHA, DR. P. VENKATESWARA RAO, Journal of Theoretical and Applied Information Technology, <https://zenodo.org/records/18454609>
- ❖ A Defense Simulation Framework and a Multi-Centrality Vulnerability Index for Resilience Engineering in Complex Networks, Naziya Parveen, Shama Kouser, Tayyaba Rasheed, Manju Sharma, Samar Mansour Hassen, Rahama Salman, Masrath Sultana, IJDDT, Volume 16 Issue 37s, 2026, page 937
- ❖ A Study on MapReduce – Application and challenges, © May 2026 | IJIRT | Volume 12 Issue 12 | ISSN: 2349-6002, Dr. Manju Sharma, Ms. Ashmita
- ❖ Sharma, M. Implementation of Map-Reduce for Huge Data System. IOSR Journal of Computer Engineering (IOSR-JCE), Vol. 25, Issue 1, Ser. I, Jan–Feb 2023, pp. 50–55. DOI: 10.9790/0661-2501015055.
- ❖ Sharma, M. Cyber Bullying Prevention in Learning Institutions: A Systematic Approach. International Journal of Engineering and Computer Science, Vol. 13, Issue 9, Sept 2024, pp. 26454–26457. DOI: 10.18535/ijecs/v13i09.4898.

- ❖ Sharma, M. Impact of COVID-19 in Education. IOSR Journal of Computer Engineering (IOSR-JCE), Vol. 24, Issue 1, Jan–Feb 2022, pp. 29–31.
- ❖ Sharma, M. Load Balancing in Oracle Database Real Application Cluster. IOSR Journal of Computer Engineering (IOSR-JCE), Vol. 19, Issue 2, 2017.
- ❖ Sharma, M. Big Data Analytics Challenges and Solutions in Cloud Computing. American Journal of Engineering Research (AJER), Vol. 6, Issue 4.
- ❖ Sharma, M.; Husain, S. Analyzing the Difference of Cluster, Grid, Utility & Cloud Computing. IOSR Journal of Computer Engineering, Vol. 19, Issue 1, 2017.
- ❖ Sharma, M.; Husain, S.; Ali, S. Cloud Computing Risks and Recommendations for Security. IJLRST, Vol. 6, Issue 1, 2017.
- ❖ Sharma, M.; Husain, S.; Zain, H. Cloud Computing Architecture & Services. IOSR Journal of Computer Engineering, Vol. 19, Issue 2, 2017.
- ❖ Ali, S.; Husain, S.; Sharma, M. A Study on Emerging Cyber Technologies, Threats and Prevention in Information Security. IOSR Journal of Computer Engineering, Vol. 19, Issue 2, 2017.
- ❖ Husain, S.; Ahmad, Y.; Sharma, M.; Ali, S. Comparative Analysis of Defuzzification Approaches from an Aspect of Real-Life Problem. IOSR Journal of Computer Engineering, Vol. 19, Issue 6, 2017.
- ❖ Sharma, M.; Ali, S.; Husain, S. Implementation of Big Data Analytics in Education Industry. IOSR Journal of Computer Engineering, Vol. 19, Issue 6, 2017.
- ❖ Hussain, M. A.; et al. Data Mining Approaches in Digital Forensics. Webology, Vol. 18, No. 6, 2021.
- ❖ Sharma, M. An Overview of Mobile Computing and Its Impact. IJCRT, Vol. 11, Issue 12, Dec 2023.
- ❖ Sharma, M. Implementation of Blockchain Technology. IJECS, Vol. 12, Issue 5, 2023.
- ❖ Sharma, M. Internet of Things (IoT): A Literature Review. International Journal of Current Research, Vol. 13, Issue 4, 2025.
- ❖ Sharma, M. An ML-Driven Framework for Intelligent Talent Acquisition and Retention in HRM. Under Review (Scopus/WoS).
- ❖ Nachaat, M.; et al. In-depth Review of Integration of AI in Cloud Computing. IEEE ICACITE 2023.
- ❖ Sharma, M.; et al. Security Analysis of IoT Networks using Diffusion Kernel Spike Attention Network. IEEE ICDICI 2024.
- ❖ Sharma, M.; Sharma, N. Hybrid Quantum–Classical CNN with Spider Wasp Optimizer. IEEE ICSES 2024.
- ❖ Sharma, M.; Sharma, N. AI-and-IoT-Powered Cyber Secured Intrusion Detection System. IEEE ICSES 2023.
- ❖ Wearable Monitoring System for Visually Impaired People Using IoT-Based Activity Tracker. Indian Patent No. 202341040553, Granted 2023.

B. Patents

- ❖ Wearable Monitoring System for Visually Impaired People Using IoT-Based Activity Tracker. Indian Patent Application No. 202341040553, Granted on 30 June 2023.

- ❖ AI-Based Network Threat Detecting Device. Indian Design Patent Application No. 430554-001, Accepted & Published, Journal No. 48/2024.

C. Workshops & Training Programs

- ❖ Attended Workshop on “Data Analysis and Statistical Techniques with SPSS”, held during 18–19 August 2025, organised by ServiceSetu Academics.

PROFESSIONAL SERVICE & CONFERENCES

Organizing Committee Member – ICRTMDR-23 (2023)

Organizing Committee Member – ICDSRISM, Dubai (2023)

PROFESSIONAL MEMBERSHIPS

IEEE Member – Member No. 93524717

ACM Member – Membership No. 1417078

ACADEMIC PROFILES

Google Scholar: <https://scholar.google.com/citations?user=-N03TUAAAAJ&hl=en>

ORCID: <https://orcid.org/my-orcid?orcid=0009-0008-0329-4039>

[Scopus Author ID: 58830735300](#)