



About the Author

Prof. (Dr.) Bhavana Narain is currently working as Dean (Research and Innovation) and Professor CSE in RITEE Group of Institutes Raipur Chhattisgarh Affiliated to CSVT University Bhilai Chhattisgarh, India. She is a distinguished academician, researcher, author, and administrator with more than two decades of experience in higher education, research, and technological innovation. She has made significant contributions to the fields of Artificial Intelligence, Machine Learning, Quantum Computing, Digital Image Processing, Cyber Security and Emerging Computing Technologies.

Dr. Narain has been actively engaged in teaching, research, curriculum development, and academic leadership, mentoring undergraduate, postgraduate, and doctoral students in advanced areas of Computer Science. She has published numerous research papers in reputed national and international journals and conferences and has successfully organized and participated in various research, innovation, and faculty development initiatives.

An accomplished author, Dr. Bhavana Narain has published thirteen books and ten patents (seven granted) in diverse areas of Computer Science and Emerging Technologies. Edited two books and several book chapters was done by her. Among these, two books are dedicated to Quantum Computing, which have been published through Kindle Direct Publishing (KDP) and are available globally through the Amazon online book platform. These publications reflect her commitment to making advanced technological concepts accessible to students, researchers, and professionals.

The present book, "*Artificial Intelligence and Quantum Machine Learning: A Transforming Technology*," is her third book in the domain of Quantum Computing and Quantum Technologies. Through this work, she seeks to provide readers with a comprehensive understanding of the convergence of Artificial Intelligence and Quantum Computing, two transformative technologies that are reshaping the future of science, engineering, industry and society.

Dr. Narain strongly believes that the integration of Artificial Intelligence and Quantum Computing will unlock unprecedented opportunities for innovation and problem-solving across healthcare, agriculture, finance, cybersecurity, education, and sustainable development.

Through her teaching, research, publications, and community engagement activities, she continues to inspire students, researchers, and academicians to explore emerging technologies and contribute meaningfully to the advancement of science, technology, and human welfare.



* Publication *

Social Empowerment Multipurpose Organization Wardha, Maharashtra
Kapil Vasti, Sutgiri Layout, Warud, Wardha,
Maharashtra - 442102, India, Mobile: +91 9130331541
Email : samajik.sashakteekaran.2023@gmail.com



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ARTIFICIAL INTELLIGENCE AND QUANTUM MACHINE LEARNING A TRANSFORMING TECHNOLOGY

Prof. (Dr.) Bhavana Narain



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$$|\psi\rangle = \sum_i \alpha_i |i\rangle$$
$$U|\psi\rangle = e^{i\theta} |\psi\rangle$$
$$\min_{\theta} L(\theta)$$

AUTHOR

Prof. (Dr.) Bhavana Narain