



# Dr. Vishnu Kumar Barodiya

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## Profile

Dr. Vishnu Kumar Barodiya is an academician, researcher, and Assistant Professor in Computer Science and Engineering with more than 17 years of teaching, research, and academic experience. He is currently serving as an Assistant Professor in the Department of Computer Science at ICFAI University, Jaipur, where he has been associated since August 2019. Prior to joining ICFAI University, he served as an Assistant Professor at many reputed college/University. His teaching and academic expertise includes Machine Learning, Artificial Intelligence, Deep Learning, Computer Vision, Software Engineering, Database Management Systems, Theory of Computation, Information System Security, Computer Graphics and Multimedia, Real-Time Systems, and Python Programming.

Dr. Barodiya completed his Ph.D. in Computer Science and Engineering with specialization in Machine Learning and Computer Vision from ICFAI University, Jaipur, in 2026. His doctoral research focused on “A Pragmatic Approach for Facial Expression Analysis using Machine Learning Algorithms,” with emphasis on developing effective machine learning and deep learning approaches for facial expression analysis. He holds an M.Tech. in Computer Science and Engineering from Suresh Gyan Vihar University, Jaipur, where his thesis focused on video security, and a B.E. in Computer Science and Engineering from the University of Rajasthan/Poornima College of Engineering, Jaipur. His major research interests include Facial Expression Recognition, Affective Computing, Machine Learning, Deep Learning, Computer Vision, Transfer Learning, Explainable AI, Human-Computer Interaction, and Machine Learning for Social Good.

Dr. Barodiya has actively contributed to research through journal publications, IEEE conference papers, book chapters, and intellectual property. His research publications include “Quantum Machine Learning: A Review of Algorithms, Applications, and Future Scope,” published in the *International Journal for Technological Research in Engineering (IJTRE)* in 2026; “Exploring the Performance of CNN Feature Extraction and SVM and Random Forest

Classifiers on the FER-2013 Dataset,” published in the *International Journal of Research and Analytical Reviews (IJRAR)* in 2025; and “Facial Expression Analysis is Largely Driven by the Capabilities of Machine Learning Algorithms: A Comprehensive Study,” presented at the *IEEE International Conference on Augmented Reality, Intelligent System, and Industry Automation (ARIIA-2024)* at Manipal Institute of Technology in 2024. His research work also includes the book chapter “A Pragmatic Approach for Facial Expression Analysis using Machine Learning Algorithms,” presented at the *International Conference on Futuristic Aspects in Science and Engineering (ICFAiSE-2025)*.

Dr. Barodiya has significant experience in student research supervision, academic mentoring, curriculum development, and project guidance. He has supervised M.Tech. Projects and mentored B.Tech. Students in internships and major projects. He has also contributed to curriculum development by designing the elective “Deep Learning for Computer Vision” and enhancing Machine Learning curricula with hands-on Python-based laboratory activities. His academic interests extend beyond classroom teaching toward research-oriented learning, project-based education, skill development, and interdisciplinary applications of emerging technologies.

Along with teaching and research, Dr. Barodiya has undertaken several academic and administrative responsibilities, including Student Council Coordinator and Discipline Convener, Training and Placement Coordinator for the CSE Department, Project Coordinator for Major and Minor Projects, Internship Mentor, FOSS Coordinator, Exam Cell Coordinator, and Member of the Board of Studies. These responsibilities have provided him with extensive experience in academic administration, student development, project coordination, institutional activities, and curriculum-related initiatives.

Dr. Barodiya has also actively participated in Faculty Development Programmes, workshops, conferences, and professional development activities in areas such as Cyber Security, Cloud Computing, Internet of Things, Soft Computing, Research Tools, Wireless Networks, Storage Information Management, and scientific dissertation writing. His technical expertise includes Python and C programming, Scikit-learn, TensorFlow, Keras, OpenCV, Pandas, NumPy, Jupyter, MySQL, SQL Server, Git, Google Colab, LaTeX, Windows, and Linux.