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Profile

To secure a responsible and challenging position in an organization that offers an excellent opportunity for professional advancement, where I can utilize my academic knowledge, teaching experience, technical expertise, research skills, and professional capabilities for organizational growth and professional development.

I am currently working as an Assistant Professor in the Department of Computer Science and Engineering at The ICFAI University, Jaipur, Rajasthan, since 13 August 2025. I have more than 15.6 years of overall teaching experience, including 1 year at The ICFAI University. Prior to this, I worked as an Assistant Professor in the Department of Information Technology at Jaipur Engineering College and Research Centre (JECRC), Jaipur, Rajasthan, from 11 August 2017 to 12 August 2025, where I gained 8 years of teaching experience. Before joining JECRC, I served as an Assistant Professor in the Department of Computer Science and Engineering at JECRC UDML College of Engineering, Jaipur, Rajasthan, from 12 December 2012 to 30 June 2017, with approximately 4.6 years of teaching experience. Earlier, I worked as a Teaching Assistant during my M.Tech at Tezpur Central University, Assam, from August 2010 to July 2012, gaining 2 years of academic and teaching experience.

I have technical knowledge of Windows and Linux operating systems and programming languages including C, C++, Python, and MATLAB. I also possess knowledge of Internet programming technologies such as C#, ASP.NET, HTML, and CSS, along with database technologies including Microsoft Access and SQL Server 2019.

To strengthen my technical and professional expertise, I have completed several certifications, including Python for Data Science, AI & Development Certification from Coursera in June 2024, Adobe Express Professional Development Workshop on Digital Creativity Skills in 2023, Google Cloud Career Readiness Certification in 2022, Google Cloud Computing Fundamentals Certification in 2021, Machine Learning & Deep Learning Certification from Forsk Technologies Jaipur in 2020, Python Programming Concepts Certification from Forsk Technologies Jaipur in 2019, and RPA Professional Certification on Automation Anywhere in 2019.

During my teaching career, I have taught a wide range of Computer Science and Information Technology subjects, including Machine Learning, NoSQL and MongoDB, Soft Computing, Python Programming Lab, Compiler Design, Compiler Design Lab, Theory of Computation, Computer Architecture, Data Structures and Algorithms, Software Engineering, Software Project Management, Real-Time Systems, Information System Security, Data Mining and Warehousing, Principles of Programming Languages, and Electronic Commerce.

I completed my M.Tech in Information Technology from Tezpur Central University, Tezpur, Assam, in 2012, and my B.Tech in Computer Science and Engineering from ICFAI University, Dehradun, Uttarakhand, in 2009. I completed Class XII from the UP Board, Allahabad, Uttar Pradesh, in 2003 and Class X from the UP Board, Allahabad, Uttar Pradesh, in 2001. I also qualified GATE 2009 with a GATE score of 318.

During my B.Tech, I completed internship programmes at BSNL Jaipur, where I gained practical exposure to Optical Fiber Cable (OFC), Global System for Mobile (GSM), and Wireless Local Loop (WLL) technologies, with each internship lasting six weeks. I also completed internship programmes at Vama Industries Ltd., Hyderabad. One project involved developing a Project Proposal Development System using Visual Basic .NET as the frontend and MS Access Database as the backend for six months. Another project involved Code Base development using ASP.NET with C#.NET and MySQL Database for six months.

During my M.Tech, I completed a project titled “Trust Management in Mobile Ad-Hoc Network” at Tezpur Central University, Assam, sponsored by the Department of Information Technology, Government of India. The project was guided by Mr. L.B. Singh, with Dr. (Prof.) S. K. Sinha as Co-Guide. The project proposed a computational method for determining the trust value of mobile nodes in a Mobile Ad-Hoc Network. The calculated trust values were used to identify the most trusted mobile node for routing messages or packets to the destination node. The trust-value computation was based on node stability and reachability, and routing methods such as AODV (Ad hoc On-Demand Distance Vector) and trust-based hop-by-hop routing were evaluated under different transmission ranges and high- and low-mobility conditions. The project simulation was conducted using MATLAB R2008a.

I have two patent publications to my credit. Patent Application No. 202311036962 A, published on 30 June 2023, is titled “Virtual Reality-Based Balancing Training Device.” Patent Application No. 202121006363 A, published on 6 February 2021, is titled “Blockchain Technology Based Shipment Tracking System to Ensure Timely Delivery.”

Along with teaching and academic responsibilities, I have handled several institutional and administrative responsibilities. I worked as Assistant Training & Placement Officer of the IT Department at JECRC Jaipur, Examination Cell Coordinator of the IT Department, Accreditation Coordinator for NAAC/NBA activities, Salesforce Training Coordinator, Smart India Hackathon (SIH)-2018 Coordinator, ICETEAS-2018 Coordinator, and ICITDA 1.0 Coordinator. I also worked as a mentor for JECRC Hackathon 1.0-2018 and IT IDEATHON 1.0-2018. At JECRC UDML College of Engineering, Jaipur, I served as Accreditation Coordinator for NAAC/NBA, AICTE Approval Process Co-Coordinator, R&D Coordinator of the CSE Department, ERP Administrator, Online Test Administrator under TPC, and Assistant Centre Superintendent for BTER Diploma Examinations.

I have continuously participated in professional development programmes, workshops, faculty development programmes, and short-term courses in emerging technologies, research, teaching methodologies, accreditation, and professional skills. These include a two-day National Workshop on “Research Methodology, Scientific Writing and Scholarly Publications” organized by the Centre of Excellence, MPIT Gorakhpur, in collaboration with Harcourt Butler Technical University, Kanpur, in June 2026; a six-day FDP on “Machine Learning with Python” and a six-day FDP on “Advance Excel with Power BI” at EICT Academy-IIT Kanpur in February 2025; and an ICT-based Faculty Development Programme on “Data Science using Python” conducted by NITTTR Chandigarh in January 2025.

My professional development also includes an ICT-based Faculty Development Programme on “Inter-personal Skills and Relationship Management” in December 2022, short-term courses on “Cyber Threats and Security Measures” and “NBA Accreditation Through Outcome Based Education” in 2022, TEQIP-III sponsored FDPs on “Statistical Learning Based IoT” and “Quantum Computing” in March 2021, and an FDP on “Artificial Intelligence and Machine Learning using Python” in September 2020. I have also completed faculty training programmes on “Machine Learning & Deep Learning” and “Python Programming Concept” at Forsk Technologies, Jaipur. Earlier, I participated in NITTTR Chandigarh programmes on “Data Mining & Business Intelligence,” “Outcome Based Education,” and “NBA Accreditation,” along with an AICTE-sponsored Faculty Development Programme on “Training of Trainers for Accreditation” at SKIT Jaipur, an FDP on “Network & Security” at JECRC UDML College of Engineering, and a workshop on “Search Engine Optimization” organized by the Computer Society of India.

I have published research papers in various journals and conferences covering areas such as Machine Learning, Artificial Intelligence, Cyber Security, Virtual Reality, Augmented Reality, Image Processing, Mobile Computing, Wireless Sensor Networks, Software Testing, Ubiquitous Computing, and related areas of Computer Science. My publications include “Controlling Screen Time for Children,” “A Study on Virtual Reality and Augmented Reality Technologies,” “Biometric and Fingerprint Payment Technology,” “Analysis on Algorithm Visualization Study,” “Honey Pot: Tracking Cyber Criminals,” “Covid-19 Data Analysis,” “Evaluation Methods for Machine Learning,” “Clustering Based Image Segmentation Techniques,” “Large-Scale Video Classification with Convolutional Neural Networks,” and “Augmented Reality Using 3D Hand Gestures.” I have also published research works on Software Testing, Peer-to-Peer Systems, Ubiquitous Computing, Enhanced Mobile Social Networks, Image Encryption, Mobile Computing, Wireless Sensor Networks, Real-Time Wireless Sensor Networks for Super Cyclone Prediction, and Artificial Neural Networks and their applications.