



Abizer Safdari

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Profile

Abizer Safdari is an emerging AI/ML researcher and educator whose work bridges Explainable AI, Deep Learning, and Computer Vision with hands-on, industry-grade data engineering experience. As Assistant Professor in the Department of Computer Science & Engineering (AI & ML) at The ICFAI University, Jaipur, he brings together rigorous academic training and more than three years of applied industry work to shape a teaching style grounded as much in practice as in theory. His growing research portfolio of five peer-reviewed publications and a filed design patent reflects a scholar equally at home experimenting with algorithms and applying them to real-world systems.

Abizer's academic foundation reflects a deliberately global and interdisciplinary path. He is currently pursuing a Ph.D. in Artificial Intelligence at the Maulana Azad National Institute of Technology (MANIT), Bhopal, with his thesis centred on Quantum Machine Learning — a frontier area at the intersection of quantum computing and intelligent systems. This builds on an M.Tech in Big Data & Machine Learning from ITMO University in St. Petersburg, Russia, and a B.Tech in Computer Science & Engineering from Parul University, Vadodara, giving him exposure to both Indian and international research environments early in his career.

Since January 2024, Abizer has served as Assistant Professor at ICFAI University, Jaipur, where he designs and delivers undergraduate courses in Data Visualization Techniques, Machine Learning, and Data Warehousing for B.Tech (AI & ML) students, teaching four subjects each semester with an average student feedback score of 4.3 out of 5. He has built original course material, presentation decks, and outcome-based assessment content for the Data Visualization Techniques (R22A6705) course, and contributes to curriculum design and academic documentation supporting the department's NBA/NAAC accreditation efforts. This academic role is underpinned by a solid grounding in industry: as a Data Engineer at Mobyink Innovation Pvt. Ltd., he collected and structured large-scale data in MongoDB and built pipelines for reliable data flow across systems, while earlier engineering internships at Storewise and Corizo saw him work respectively on an AI/ML-based warehouse optimization solution and an ML-based object detection and traffic optimization system, alongside a role as Cloud Architect & Python Developer at Codezilla.

A recurring thread in Abizer's research is the use of explainable AI to make machine learning models more transparent and trustworthy in high-stakes domains. His work “eXplainable AI Based Machine Learning Model for Concrete Compressive Strength Prediction” applies interpretable ML techniques to a core civil engineering problem, while “Explainable AI for Legal Document Retrieval: Enhancing Transparency in Judicial Information Systems” extends the same principle to legal information

systems, aiming to make AI-assisted retrieval processes more accountable and understandable to end users.

His research also reaches into adaptive and emerging systems. “Reinforcement Learning for Adaptive Traffic Management in Smart Cities” explores how reinforcement learning can dynamically optimize urban traffic flow, while “Leveraging Artificial Intelligence and Machine Learning Techniques for Proactive Threat Detection, Anomaly Prediction, and Adaptive Defense Mechanisms in Cybersecurity Frameworks” addresses the growing need for intelligent, self-adapting cyber defense systems. Looking further ahead, his work on “Quantum-Resistant Artificial Intelligence Algorithms for Secure Networks” anticipates the security challenges of a post-quantum computing era — a theme that also underlies his doctoral thesis. This body of research is complemented by a filed Indian Design Patent, “Cloud Integrated Machine Learning Apparatus for Smart Automation” (Application No. 451004-001), reflecting his interest in translating machine learning research into deployable, cloud-based systems.

Beyond teaching and research, Abizer is an active contributor to departmental life at ICFAI University, Jaipur. He serves as IP Deputy Coordinator, supporting placement, industry collaboration, and student engagement activities, and as Social Media Coordinator, managing official departmental handles, content creation, and event promotion. He is also the Departmental ERP Coordinator, maintaining academic and administrative records, and has served as Coordinator for the Certificates and Social Media Committee at the International Conference on Futuristic Aspects in Science and Engineering (ICFASE-2025). He has additionally conducted a placement training session on Machine Learning for final-year students, and regularly updates his own expertise through faculty development programmes on subjects such as Generative AI, immersive AR/VR-based learning, Power BI analytics, and advanced NLP — reflecting a continued, hands-on commitment to staying current in a fast-moving field.