



Amrit Kumar Tiwari

Assistant Professor (CSE), ICFAITECH
aktiwari@iujaipur.edu.in

Profile

Mr. Amrit Kumar Tiwari stands as a dynamic academician and researcher in Computer Science and Engineering, committed to advancing technological innovation and mentoring the next generation of engineers. As an Assistant Professor in the Department of Computer Science and Engineering at ICFAI University, Jaipur, he brings dedicated academic leadership and technical experience across key engineering domains. His career reflects a strong synthesis of theoretical computer science, applied research, and hands-on technological development.

Mr. Tiwari's academic foundation is marked by exceptional scholastic achievement. He earned his Master of Technology (M.Tech.) degree with a distinction CPI of 9.95/10 from the Central Institute of Technology Kokrajhar. This advanced qualification was built upon a solid undergraduate foundation, having completed his Bachelor of Technology (B.Tech) from the same university with a CPI of 8.54/10. Demonstrating early analytical rigor, he scored in the 92nd percentile in the JEE Mains examination in 2020. Prior to joining ICFAI University, he served as an Assistant Professor at Rizvi College of Engineering, where he delivered core courses in Computer Networks and Database Management Systems (DBMS), supervising laboratory instruction and guiding undergraduate engineering projects.

The core of Mr. Tiwari's research portfolio spans Artificial Intelligence, Machine Learning, Natural Language Processing (NLP), Image Processing, Data Analytics, and Computer Networks. His research focuses on bridging intelligent computational frameworks with real-world applications. Notably, he developed NepalGPT, an AI-powered retrieval-augmented generation (RAG) platform leveraging LLaMA models, semantic search workflows, prompt engineering, and optimized NLP pipelines for intelligent conversational information retrieval. His interdisciplinary research also extends into computer vision, image processing, and smart IoT systems, exemplified by an AI and IoT Smart Agriculture Assistance System that processes environmental datasets using machine learning models for soil and crop optimization. Furthermore, his expertise encompasses automated visual inspection and quality assurance frameworks, demonstrated during his participation in the Smart India Hackathon.

Beyond classroom instruction and theoretical research, Mr. Tiwari has a proven track record in DST-funded projects and technical leadership roles. He served as a Junior Research Fellow (JRF) at the Science Technology and Innovation Hub on a DST-funded initiative, contributing to ICT-based eAuction platforms and silk value chain enhancement. His research capabilities led to selection as a Project Associate at IIT Hyderabad for a DST-funded project. Additionally, his technical footprint includes roles as a Software Development Engineer at the Haryana Space Applications Centre (HARSAC) and qualification for the Grid India PSU Apprenticeship.

As an active contributor to the modern computer science ecosystem, Mr. Tiwari remains dedicated to student mentorship, curriculum implementation, and technical education. Proficient across programming environments including Python, Java, PHP, and SQL, alongside deep learning frameworks such as PyTorch and TensorFlow, he actively mentors students in software automation, data-driven system design, and emerging technologies.