

# INTERNATIONAL CONFERENCE ON ADVANCEMENTS IN COMPUTATIONAL INTELLIGENCE AND MACHINE LEARNING (ICACIML-2026)

Publication Partner



Organized by  
**Department of Computer Science & Engineering (CSE)**  
**Department of Artificial Intelligence & Data Science (AI&DS)**  
**Center of Excellence in Blockchain**



March 26-27, 2026



IcfaiTech, IFHE



## Advancing the Frontiers of Computational Intelligence



- Encouraging cutting-edge research and novel methodologies in computational intelligence, spanning neural networks, evolutionary algorithms, fuzzy systems, and hybrid intelligent models.
- Exploring transformative applications of AI and ML in diverse sectors such as healthcare, finance, cybersecurity, robotics, smart cities, agriculture, and industrial automation.
- Bringing together researchers, academicians, industry professionals, and practitioners to exchange ideas, share expertise, and promote meaningful cross-domain collaborations.
- Deepening the understanding of core theoretical foundations, including mathematical models, learning algorithms, optimization strategies, and computational frameworks that drive next-generation AI systems.
- Promoting informed discussions on responsible and ethical AI, with emphasis on fairness, transparency, interpretability, security, and the broader socio-ethical implications of intelligent technologies.
- Providing a dynamic platform for students and early-career researchers to present their work, receive constructive feedback, and cultivate strong professional and research networks."





## About ICFAI Foundation for Higher Education (IFHE)

- The ICFAI Foundation for Higher Education is a deemed-to-be-university established under Section 3 of the UGC Act, 1956.
- IFHE's comprehensive student-centric learning approach provides relevant knowledge, imparts practical skills, and inculcates a positive attitude among the students.
- Today, the IFHE is one of the largest multi-disciplinary universities in the country.
- The **ICFAI Business School, Faculty of Science and Technology, Faculty of Law, ICFAI School of Architecture, ICFAI School of Social Sciences and Center for Distance and Online Education** are the six core academic schools of the university
- IFHE has been permitted by the Ministry of Education, Government of India, to start an Off-Campus Center at Bangalore, Karnataka.
- The University is a member of the Association of Indian Universities (AIU) and the Association of Commonwealth Universities (ACU).
- The University offers students the best and updated curriculum and trains them for rewarding careers.
- It promotes a culture of research that advances knowledge in the field of management, technology, law, architecture, and social sciences.
- IFHE is a Category I Autonomous Institution, and Accredited by NAAC with 'A++' Grade

## About Faculty of Science and Technology (IcfaiTech)

Faculty of Science and Technology (IcfaiTech), Hyderabad, is a constituent of the ICFAI Foundation for Higher Education. It has been established to promote quality education in the field of Science and Technology. IcfaiTech strives to acquire a reputation as a highly purposeful and innovative institution, setting the pace for workable reforms in professional education that are suitable and most relevant to the Indian cultural milieu.

The core philosophy of education at IcfaiTech is to empower students with the proper knowledge and modern skill sets, so that they are ready to face the challenges of the competitive world. IcfaiTech strives to provide its students with the fine edge required to make a successful professional. The programs at IcfaiTech have been uniquely designed by incorporating courses from diverse areas, including humanities, arts, and management, combined with science, engineering, and industry-based internships. IcfaiTech ensures that students gain exposure and knowledge across different disciplines, develop inter-personal skills and leadership qualities that take them beyond traditional thinking and practice.

The educational philosophy and practices at IcfaiTech allow it to integrate an innovative and emerging body of knowledge into its learning system. The highlights of the academic program are summarized below:

- Cutting-edge course curriculum with contemporary and effective pedagogic methods that emphasize application-oriented learning.
- Encouraging students to not only articulate Science and Technology needs but also provide appropriate solutions.
- Developing appreciation for synthesized multidisciplinary learning by way of workshops, internships, and other group learning assignments

## About the Department Computer Science & Engineering (CSE) and Artificial Intelligence & Data Science (AI&DS)

The Department of Computer Science & Engineering (CSE) and Artificial Intelligence & Data Science (AI&DS) are research-focused academic unit committed to excellence in advanced computing and intelligent technologies.

The two departments collectively offer B.Tech. (CSE, CSE-Cloud Computing, CSE-Cybersecurity, CSE-Blockchain, Cybersecurity, IoT), B.Tech. (AI, AI-DS, AI-ML), and M.Tech. (AI-ML), BCA (AI-ML, AI-DS), B.Sc. (CS/DS), and a strong Ph.D. program that nurtures high-impact research. With a distinguished team of 60+ highly qualified faculty members, comprising professors, researchers, and industry practitioners with diverse expertise in AI/ML, deep learning, NLP, cybersecurity, Blockchain technologies, IoT, cloud computing, distributed systems, high-performance computing, and intelligent data-driven applications.

The department drives innovation through strong research contributions and industry collaborations. A vibrant community of 4000+ students enriches a dynamic ecosystem of learning and problem-solving. Modern laboratories, research centers, and incubation facilities support hands-on exploration, applied research, and product development. The department's consistent publications in SCI/Scopus venues and interdisciplinary initiatives position it as a leading hub for emerging technologies and future-ready talent.

## Key Department Initiatives

- Organizes national and international conferences, seminars, workshops, and technical conclaves in emerging areas such as AI, Data Science, Cybersecurity, Blockchain, and Cloud Computing.
- Publishes high-quality research articles, book chapters, patents, and technical reports in collaboration with faculty, scholars, and students.
- Collaborates with industry partners, research laboratories, professional bodies, and global organizations to promote joint projects, internships, certifications, and skill development programs.
- Conducts training programs, coding boot camps, hackathons, and hands-on workshops to strengthen practical skills in AI, ML, IoT, full-stack development, and data analytics.
- Encourages student and faculty participation in multidisciplinary projects, innovation challenges, and funded research initiatives that address real-world problems.
- Promotes entrepreneurship, start-up culture, and product innovation through incubation support, ideation camps, and mentoring by industry experts.

## Center of Excellence in Blockchain

The Center of Excellence in Blockchain at the Faculty of Science and Technology (IcfaiTech) aims to drive high-impact research in Blockchain, smart contracts, and distributed ledger technologies, while fostering innovation through patents, publications, and funded projects. It leverages state-of-the-art labs and industry-grade platforms to support experimental research, strengthens collaborations with industry and academic partners for joint development, and nurtures skilled researchers through mentoring, specialized training, and hands-on learning opportunities.

# We welcome original, unpublished research papers, case studies, survey articles, and industry practice reports in (but not limited to) the following thematic areas:

## Track 1: Machine Learning, Deep Learning & Neural Networks

- Supervised, Unsupervised, Semi-supervised learning methods
- Reinforcement Learning, Multi-agent RL, Bandits
- Probabilistic and Bayesian models
- Feature engineering, feature selection, dimensionality reduction
- Optimization methods (convex / non-convex / gradient-free / meta-optimization)
- AutoML, model selection, hyper-parameter tuning
- Explainable & interpretable ML (XAI), model auditability
- Time-series prediction, forecasting, temporal-data ML
- Scalable and efficient ML systems & large-scale deployment
- Transformer architectures, attention models, foundation models
- Convolutional Neural Networks (CNNs) and computer-vision deep learning
- Recurrent Neural Networks (RNNs), LSTM/GRU, sequence modelling
- Graph Neural Networks (GNNs) and deep learning on graphs
- Generative Models: GANs, VAEs, Diffusion Models, Generative AI
- Neural Architecture Search (NAS), Auto-DL
- Edge-AI / TinyML / on-device deep learning
- Multimodal learning (image-text, audio-text, video-text, etc.)
- Optimization techniques in deep learning: regularization, efficient training
- Responsible & trustworthy deep learning: fairness, robustness, ethics

## Track 2: Natural Language Processing (NLP)

- Large Language Models (LLMs), fine-tuning, adapter methods, prompt-engineering
- Text classification, summarization, information extraction
- Question Answering, dialog systems, conversational AI, chatbots
- Machine Translation (neural MT), multilingual and low-resource languages
- Sentiment analysis, emotion detection, opinion mining
- Speech processing, speech-to-text, spoken language understanding
- Document understanding, retrieval, search, IR + NLP
- Code-mixed language processing, especially for regional languages (e.g. Indian languages)
- Ethics, bias, fairness and interpretability in NLP
- Applications of NLP in domains such as healthcare, education, law, social media

## Track 3: Swarm & Evolutionary Computation

- Genetic Algorithms (GA), Genetic Programming (GP), Evolutionary Strategies
- Particle Swarm Optimization (PSO), Ant Colony Optimization, Bee/Firefly/Other Swarm methods
- Hybrid algorithms: combining evolutionary / swarm methods with ML / DL techniques
- Multi-objective optimization, Pareto-optimal solutions, trade-offs
- Evolutionary Game Theory, multi-agent optimization, co-evolution
- Bio-inspired and nature-inspired computing / optimization
- Swarm robotics, distributed intelligence, self-organizing systems
- Heuristics and metaheuristics for real-world problems (optimization, scheduling, resource allocation, IoT, network optimization)
- Benchmarking, performance evaluation, comparative studies of evolutionary methods

## Track 4: ML for Cybersecurity, Healthcare & Emerging Applications

### A. ML for Cybersecurity

- Intrusion detection, anomaly detection, network security using ML
- Malware, ransomware, phishing detection and prevention using ML/DL

- Adversarial ML, robustness, secure ML models
- Privacy-preserving ML: federated learning, secure ML, privacy-enhancing tech (e.g. differential privacy, ZKPs)
- Blockchain + ML / Hybrid security-ML frameworks

### B. ML for Healthcare & Biomedical Applications

- Medical image analysis (X-Ray, MRI, CT, ultrasound) using ML/DL
- Predictive healthcare analytics, risk scoring, prognosis models
- Remote monitoring via wearables, IoT-based health monitoring, time-series health data
- Clinical decision support systems, diagnostic assistance, prognosis, disease detection
- Drug discovery, genomics / bioinformatics, computational biology using ML
- Explainable & interpretable ML in healthcare decisions (transparency, ethics)

### C. ML in Other Emerging Domains & Cross-Cutting Applications

- AI / ML for Smart Cities, IoT-enabled systems, transportation, logistics
- ML for environment, climate modelling, sustainability, resource optimization
- ML in FinTech, fraud detection, financial forecasting
- ML for education: learning analytics, adaptive learning, assessment & evaluation
- AI governance, ethics, policy, fairness, societal impact of ML

## Track 5: AI-Driven Business Transformation: Analytics, Digital Innovation, and Sustainable Management Practices

- Predictive Business Analytics & Decision Intelligence
- Digital Transformation, Industry 4.0 & Innovation Management
- FinTech, Risk Analytics & Blockchain Applications
- Marketing Analytics, Consumer Insights & Social Media Mining
- Human Resource Analytics & Future of Work Models
- Healthcare Analytics & Digital Health Systems
- Sustainability, ESG Analytics & Green AI
- AI Governance, Ethics & Policy in Management

## Track 6: Intelligent IoT for Smart Manufacturing

- Low-power embedded system design for industrial IoT devices
- Advanced MEMS/NEMS sensors for manufacturing applications
- VLSI and ASIC architectures for high-speed IIoT data processing
- Edge AI hardware accelerators for factory automation
- 5G/6G-enabled real-time communication for manufacturing systems
- Hardware-level cybersecurity for IIoT devices (PUF, secure boot, TPM)
- IoT-enabled robotics control hardware and sensor fusion platforms
- Robust hardware design for extreme temperature and vibration environments

## Call for Papers

The International Conference on Advancements in Computational Intelligence and Machine Learning (ICACIML 2026) invites high-quality research contributions from academicians, researchers, industry practitioners, and scholars across the globe.

The conference aims to provide a premier interdisciplinary platform for presenting cutting-edge innovations, discussing emerging trends, and addressing real-world challenges in the fields of Artificial Intelligence, Machine Learning, Data Science, and Computational Intelligence.



**Chief Patron:**

Prof. Tamma Koti Reddy, Vice-Chancellor (In-charge),  
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Dr. P. Rohini, HoD, Dept. of CSE, IcfaiTech

**Publication Chair:**

Dr. Pradosh Kumar G, Dept. of AI&DS, IcfaiTech

**KEYNOTE SPEAKERS**

**Prof. Ing. Alejandro Masrur**  
Professor  
TU Chemnitz,  
Germany



**Dr. Bouziane Brik**  
Associate Professor  
University of Sharjah,  
UAE



**Prof. Fernando Moreira**  
Full Professor  
REMIT, Universidade Portucalense,  
Porto, Portugal



**Prof. P. Sateesh Kumar**  
Professor  
Indian Institute of Technology,  
Roorkee



**Prof. Diptendu Sinha Roy**  
Professor  
National Institute of Technology,  
Meghalaya,  
India



**Prof. Subhendu Ku. Pani**  
Professor  
Series Editor, CRC Press,  
Taylor & Francis Group  
Biju Patnaik University of Technology,  
Odisha, India

**REGISTRATION**

To encourage wider participation, the conference registration fee will be charged as given below:

	<b>Delegates Presenting Papers</b>	<b>From India</b>	<b>From Abroad</b>
1	Academicians	RS. 10,000	USD 150
2	Research Scholars / Students	Rs. 8,000	USD 100
3	Participation Fee for Non-presenting Authors / Others	Rs. 5,000	USD 100
4	Corporate Delegates / Policy Makers / Government Officials/ NGO Professionals	Rs. 10,000	USD 150
5	Additional Pages (per page) will be permitted at a cost of	Rs. 1000	USD 25

*An additional 18% GST will be applied to the registration fee mentioned above.*

**ACCOMMODATION**

A limited number of rooms may be available at nominal rates on the campus of IFHE-Hyderabad. The rooms will be allocated on first-come-first served basis. For any queries, please contact us at [icaciml2026@ifheindia.org](mailto:icaciml2026@ifheindia.org)

**PUBLICATION DETAILS**

All accepted and presented papers will be included in the Conference Proceedings of ICACIML 2026, to be published in the distinguished 'Information System and Data Analytics' series by CRC Press, Taylor & Francis Group.



Selected and extended versions of high-quality papers presented at ICACIML-2026, after undergoing a rigorous peer-review process, will be considered for publication in the journal Recent Patents on Engineering (Bentham Science), which is indexed in Scopus.

**Important Dates to Remember**

Submission Deadline	26 <sup>th</sup> January 2026
Acceptance notification	10 <sup>th</sup> February 2026
Registration & Camera Ready Paper Submission	15 <sup>th</sup> & 20 <sup>th</sup> February, 2026

**Conference Dates 26<sup>th</sup>-27<sup>th</sup> March 2026**