



**ICAIN-2025**

**International Conference on Artificial  
Intelligence and Networking**

**06<sup>th</sup>-07<sup>th</sup> October 2025**

**Organized by**

**Universal Innovator & UI-Educon**

**In association with**

**Indian Institute of Information Technology, Allahabad**

**\*\*\*\*\* CALL FOR PAPERS \*\*\*\*\***

**SPECIAL SESSION ON**

**Blockchain and AI/ML in LifeSciences, Defense, Agriculture and Healthcare**

**SESSION ORGANIZERS:**

Dr Rohit Kumar Bondugula, University of Hyderabad, India, [rohitbond@uohyd.ac.in](mailto:rohitbond@uohyd.ac.in)

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**SESSION DESCRIPTION:**

Post pandemic and its secondary complications created severe loss of lives, health and economy in several countries, significantly. Hence, it is an urgent need of this hour to find new drugs and suitable therapeutic solutions to battle the deadly viruses. Amongst computer-aided drug design strategies, recently Artificial Intelligence (AI) attracted the researchers and industrialists to speed up the new drug design and discovery. AI involves the use of systems and software to learn and interpret the input data so that proper conclusion will be attained for certain research objectives. AI applied to pharma industries under various sectors: drug design, repurposing, drug synthesis, product development, QC, pharmacokinetics, clinical trials, and market analysis to reduce the workload of manpower. This issue mainly focuses on addressing the significant applications of AI in all sectors of drug discovery starting from de novo drug design, target protein structure prediction/ analysis and in the establishment of drug-protein interactions to improve physicochemical properties, consequently the pharmacological activity. Further, the use of AI in the design of the

synthetic route, prediction of product yield, and deducing the reaction mechanism, formulations, preclinical and applicability clinical setup will also be addressed. Moreover, a healthy discussion on the limitations and future challenges in the applications of AI in pharma and biotech sectors will be highly appreciated through your valuable contributions in the form of cutting-edge research papers, Review papers, and hypotheses.

## RECOMMENDED TOPICS:

Topics to be discussed in this special session include (but are not limited to) the following:

All these potential applications around the use of Artificial Intelligence will be covered in this Special Issue, which welcomes the submission of both reviews and original research articles in this area, but not limited to the following research topics:

- AI in Healthcare
- AI in Precision Medicine
- AI in Remote Patient Monitoring
- AI in Medical Imaging
- AI for early detection of Infectious Diseases
- AI in Genomics
- AI in Drug Design
- AI in Synthesis
- AI in Agriculture
- AI in Drug Repurposing AI in Drug Screening
- AI in preclinical studies AI in clinical trials
- AI in Defense
- AI in Patient care and drug monitoring

## SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this particular theme session on ***Blockchain and AI/ML in LifeSciences, Defense and Healthcare on or before [15th July 2025]***. All submissions must be original and may not be under review by another publication. INTERESTED AUTHORS SHOULD CONSULT THE CONFERENCE'S GUIDELINES FOR MANUSCRIPT SUBMISSIONS at <https://www.icain-conf.com/downloads>. All submitted papers will be reviewed on a double-blind, peer-review basis.

NOTE: While submitting a paper in this special session, please specify ***Blockchain and AI/ML in LifeSciences, Defense and Healthcare*** at the top (above paper title) of the first page of your paper.

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