



**One-Week SERB Karyashala Workshop**  
**On**  
**“Understanding machines: Explainable AI”**

**Duration: January 16 - 22, 2023**

**Venue: Auditorium, Department of Computer Applications, CUSAT**

**Organized by: Department of Computer Applications**  
**Cochin University of Science And Technology, Kochi, Kerala, India**

**Workshop Funded by: Science and Engineering Research Board (SERB),**  
**Department of Science and Technology (DST), Govt. of India, under the Accelerate Vigyan Scheme**

### About Department of Computer Applications, CUSAT

Cochin University of Science and Technology ([www.cusat.ac.in](http://www.cusat.ac.in)) established in 1971 is excelling in research and academic activities solving significant societal, science, and engineering problems with a vision is to strive for excellence, be competitive in technical education on a global basis and focus on knowledge assimilation, generation, and dissemination. CUSAT is Re-accredited by National Assessment and Accreditation Council(NAAC), India with A+ grade and is consistently placed amongst the top universities in NIRF ranking. The Department of Computer Applications(<https://dca.cusat.ac.in/>) is a pioneer department of the Cochin University of Science and Technology established in the year 1994. Currently, the department offers MCA (Master of Computer Application), M.Sc Computer Science with Specialization in Artificial Intelligence, M.Sc Computer Science with Specialization in Data Science, Ph.D. in Technology, and Ph.D. in Science. The department is bestowed with an experienced team of faculty members with an excellent academic track record and proficiency in data science, machine learning, and cybersecurity.

**Who can attend the Workshop:** Karyashala workshop is open to all PG/Ph.D. students from all Institutes, Colleges, and Universities.

The applicants have to submit the NOC in any standard format from the supervisor/HoD/Head of the institute if selected.

Participants will be provided Travel allowances as per GoI norms and stationery, consumables, accommodation, food, etc., as per institute norms.

**Speakers:** Speakers from IITs/NITs/IIITs/foreign institutes and other premier institutes working in this field shall deliver the lectures and hands-on in this workshop.

**Registration: Free of cost**

**Max. Seat: 25**

**Last Date to Apply: 02-01-2023**

### About the Workshop

'KARYASHALA' is aimed to provide hands-on experience to PG and Ph.D. students from universities, colleges, academic institutions in handling/troubleshooting high-end scientific instruments, software, and such skill development on themes required for research work. Explainable Artificial Intelligence (XAI) is a set of processes and methods in the application of AI technology such that the humans can comprehend and trust the results and output created by machine learning models. While this is of interest to AI researchers studying a wide range of topics (e.g., agents, knowledge representation and reasoning, planning, recommender systems, reasoning with uncertainty, and robotics), it is of particular concern to machine learning (ML) researchers because, in many cases, practitioners wish to comprehend the AI system's decision-making prior to entrusting it with critical applications (e.g., automated driving, command and control, finance, medicine, healthcare). This workshop aims to share the knowledge, concept, and associated techniques employed in Explainable AI in the most simple way.

#### Following are the objectives of this workshop:

1. To understand the needs, opportunities, & challenges of Explainable AI.
2. To implement interpretable machine learning models using different tools and frameworks available.
3. To understand the explainability of deep learning models.
4. To analyse various adversarial machine learning techniques and their explainability.

**Contact Person:** Dr. M. V. Judy, Professor & Head, Department of Computer Applications, CUSAT, Kochi, Kerala, India.

**Email:** [dcacusatworkshop2022@gmail.com](mailto:dcacusatworkshop2022@gmail.com)

**Mobile:** 9496699301, 8330865067

**Registration Link:** <https://forms.gle/fEZVGT2dG6gU24t46>