



National Institute of Technology, Karnataka

NH 66, Srinivasnagar, Surathkal, Mangaluru, Karnataka 575025

In Association
with



Federated Learning (FL) and Explainable AI (XAI)

One-day Tutorial

1st December, 2022

(Offline Mode)

Venue - Computer Science & Engineering Department, NITK

Timing - 9am - 5pm

Registration Fee

Free for Registered Author and Registered Attendee of the Conference

For other participants

Rs.250/-

Everyone who wishes to attend should register for this Tutorial and the Conference registration through the registration link below.

<http://icraie.nitk.ac.in/registration.html>

Coordinators

Prof. Annappa B, Satheesh Ambesange & Sachin D N

Department of Computer Science and Engineering
NITK, Surathkal

Federated Learning (FL) and Explainable AI (XAI)

One-day Tutorial

Session 01 - Introduction To FL

Introduction (Data Privacy, GDPR, HIPPA, DISHA, FL)

Introduction To FL (Types, FL Architecture)

UseCases (Healthcare, Finance)

Applications

Challenges And Research Direction

Session 02 - Hands-On FL

Overview FL Tools

Flower / TFF

Build Your First FL Project

Hands-On FL Project Demonstration

Session 03 - Explainable AI

Introduction To XAI

XAI For ML, DL, NLP

Overview Of XAI Tools

Hands-On Practice With XAI Tools

Session 04 - Explainable AI Project Demonstration

Project Demonstration 1 (ML XAI)

Project Demonstration 2 (CV XAI)

NOTE

Participants: 25 Max