ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP)
ON
Machine Learning in Science and Engineering: Models and Applications
(27th June - 07th July 2022)
E & ICT Academy, National Institute of Technology, Warangal.
in association with
S.A. Engineering College, Chennai- 600077

Preamble:

"Electronics & ICT Academy" was set up at NIT Warangal with financial assistance from MeitY, GoI. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry and Andaman & Nicobar Islands. This academy role is to offer faculty development programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

About the FDP:

This Online Faculty Development Programme (FDP) on "Machine Learning in Science and Engineering: Models and Applications" is being conducted for the faculty members of engineering colleges, industries and research laboratories. This FDP is suitable for faculty, researchers, post graduate scholars in academia and industry as well. The purpose of conducting this 10 - day FDP is to provide a hands-on-experience on real time applications using AI & ML methods. This FDP is devoted to address the need to enhance the knowledge about the latest technologies pertaining to Artificial Intelligence and Machine Learning. Academicians in the concerned field from IITs/NITs/IIITs are invited to deliver lectures in the programme. Speakers from industries are also expected to deliver as part of the course.

Major Course Contents:
- Introduction to AI and Machine learning,
- Overview of Machine Learning Techniques.
- Probability Distributions- Bayesian learning, decision tree based classification methods
- Dimensionality reduction methods
- Support vector machine classification and application
- Neural networks and practical implementations
- Clustering: K Means, C-Means, Agglomerative Clustering.
- Hands on to implementation of supervised and unsupervised methods
- Introduction to Deep learning methods and applications
- Machine Learning Application in Computer Vision (Example: Video Surveillance and Medical Imaging)
- Transfer Learning
- Generative Adversarial Networks
- Reinforcement Learning, Optimization and Data driven Methods
- Data Visualization with Python

Faculty conducting this program:

This program will be conducted in online mode by the faculty members from NIT Warangal in association with S.A. Engineering College Chennai, Tamil Nadu – 600077; Academicians in the concerned field from Indian Institute of Technology (IIT)/National Institute of Technology (NIT)/ National Institute of Technical Teachers Training and Research (NITTTR)/ Self-financing/Autonomous College faculty are invited to deliver lectures in the program. Speakers from industries are also expected to deliver as part of the course.

Eligibility:

The program is open to faculty of Engineering Colleges and other allied disciplines in India. Industry personnel working in the concerned /allied discipline can also attend.

Registration Fee Particulars:
The fee is to be paid either in the form of DDs oronline transfer using the following details

Faculty and Research Scholars	Rs.500/-
Industry Participants	Rs.1500/-
Online Transfer Details	
Account Name: Electronics & ICT Academy NITW IFSC: SBIN0020149 Account No: 62423775910	

How to apply:
Participants are required to fill the online registration form by clicking on the following link:
 https://tinyurl.com/SA-FDP-2022

Selection Criteria:
Selection will be done based on first-come-first-serve basis to a maximum number of 50 (sixty). Additionally, 10 participants from industry are allowed to participate. The list of selected participants will be intimated through e-mail. In case a candidate is not selected, the DD will be sent back. Candidates will be issued satisfactory certificates on successful completion of the course. Reservations are followed for selecting candidates asper GOI norms.

Important dates:
Last date for

Submission of Application: 24/06/2022

Selection by E-mail   : 25/06/2022

Duration   : 27/06/2022to 07/07/2022

About NIT Warangal:
National Institute of Technology, Warangal is the first among 17 RECs setup as joint venture of the Government of India and the state government. Over the years the college has established itself as a premier Institute imparting technical education of a very high standard leading to the B.Tech degrees in various branches of engineering, M.Tech. and Ph.D programs in various specializations. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

About S.A.Engineering College:
S.A. Engineering College, an outcome of Dharma Naidu Educational & Charitable Trust was established in the year 1998. College has spacious, high infrastructure and peaceful surroundings with 5 lakhs sq.ft of constructed area. The campus comprises aesthetically designed buildings that are networked by fiber optic cables and Wi-Fi. The college maintains a high standard of education by providing a wide array of world class academic facilities, employing highly qualified and experienced faculty members and creating an ambience conducive for quality education. In recognition of quality system of high quality policy being implemented by the Institution, M/s TUV NORD has accorded ISO 9001:2008 Certification. The college is accredited by NBA and NAAC with 'A' Grade. The college offers the following 8 U.G programmes and 6 P.G programmes
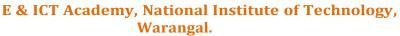
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1. Name   :

2. Designation :

3. Institution   :

4. Email   :

5. Mobile No   :

6. Payment Details:

7. Address for correspondence   :

8. Educational qualification   :

9. Subjects taught for   :

10. No. of refresher Course/ workshops attended:

11. Experience in years

Teaching: Research: Industry:

12. Do you belong to SC ☐   ST ☐

Declaration

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and shall attend the course for the entire duration. I also undertake the responsibility to inform the coordinators in case I am unable to attend the course.

Sponsorship Certificate

Dr. /Mr. /Ms. …………………………………….. is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on "Machine Learning in Science and Engineering: Models and Applications", sponsored by Electronics & ICT Academy during 27th June– 07th July,2022

It is requested to all the delegates, after completion of the application form, all the payment details, a Screenshot of the payment, and scanned application form has to be uploaded in the following online registration link.

Registration Link

https://tinyurl.com/SA-FDP-2022

For more details about Electronics & ICT Academy,

NIT, Warangal, please visit:

https://nitw.ac.in/eict

For more details about S.A. Engineering College,

Chennai, please visit:

https://www.saec.ac.in/

Date: Signature of the Applicant

Signature of Head of Institution
(with seal)

Coordinators

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