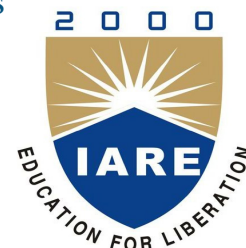




FACULTY DEVELOPMENT PROGRAMME (FDP) ON Machine Learning Tools for IoT Applications

(12th – 22nd July 2021)

Organized by
E & ICT Academy, NIT Warangal
in association with



INSTITUTE OF AERONAUTICAL ENGINEERING (IARE), HYDERABAD

(Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI)

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 programs 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 FDP:

The Faculty development program will help to disseminate the knowledge in the domain of data science and Machine learning. It empowers the participants to understand how data science can be used to innovate and improve the business process. Machine Learning is a fast-growing field of Artificial Intelligence concerned with the study and design of computer algorithms for learning good representations of data, at multiple levels of abstraction. Since data is overwhelming, organizations are struggling to extract the powerful insights they need to make smarter business decisions. The participants will be trained with hands-on approach in order to have an in-depth insight into the domain of Data Sciences and expose them to Feasibility & future scope

MAJOR COURSE CONTENTS:

- Introduction to Data Science
- Recommendation Systems
- Introduction to R Language and Statistical Analysis using R
- Introduction to Python
- Analyzing Social Network Graphs
- Data Acquisition and Data Science Life Cycle, Data Visualization
- Introduction to Machine Learning
- Unsupervised Learning Methods
- Supervised Learning Methods
- Linear Regression: Simple and multiple linear regressions
- Optimization methods
- Feature Selection Methods
- Dimensionality Reduction Methods (PCA)
- Hands on sessions on Unsupervised and Supervised Methods
- Supervised Learning Methods on Real Time Applications
- Support Vector Machines and Neural Networks
- Medical Data Analysis
- IoT Architecture and Protocols
- IoT Simulation Tools
- Python Programming (MQTT,Socket-IoT Protocols)
- Working with AWS cloud to deploy IoT Applications
- IoT Data Analytics
- ThingSpeak Internet of Things
- ML & IoT Applications in Healthcare, Industries and Smart Cities
- Research Directions in Machine Learning & IoT

FACULTY CONDUCTING THIS PROGRAM:

The program will be conducted by the faculty members from NIT Warangal; Academicians in the concerned field from IITs/NITs/IIITs are invited to deliver lectures in the program. Speakers from industries are also ex-

pected to deliver as part of the course.

REGISTRATION FEE PARTICULARS:

Faculty and Research Scholars	Rs.750/-
Industry Participants	Rs.2250/-

Participants need to pay the Registration Fee Online using the following details

ONLINE TRANSFER DETAILS
Account Name: Electronics & ICT Academy NITW
Account No: 62423775910
IFSC: SBIN0020149
Bank and Branch: State Bank of India, NIT (REC) Warangal

HOW TO APPLY:

Participants are required to fill the online registration form by clicking on the following link:

<https://forms.gle/DVsJXca79qt2eNHs7>

SELECTION CRITERIA:

Selection will be done based on first-come-first-serve basis to a maximum number of 60 (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 as per GOI norms.

IMPORTANT DATES:

Last date (Application)	10/07/2021
Selection List by E- mail	11/07/2021
Duration	12/07/2021 -22/07/2021

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.

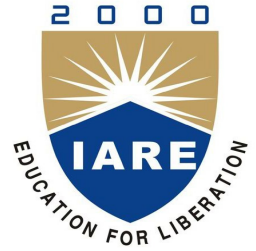
ABOUT IARE:

IARE is a prestigious Autonomous engineering college offering eleven B.Tech programs Aeronautical Engineering. Institute of Aeronautical Engineering (IARE), Hyderabad was established in the year 2000 and is run by Maruthi Educational Society founded by a devoted group of eminent professional and industrialists having a long and outstanding experience in educational system with a mission ‘Education for Liberation’. It is the first institute to start B.Tech program in Aeronautical Engineering in the state of Telangana and has gradually transformed itself into an integrated multi-disciplinary technological institute. The institute is ranked 170 in engineering category as per National Institutional Ranking Framework (NIRF) – 2020, Ministry of Human Resource Development (MHRD), Govt. of India.

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- Name :
- Designation :
- Institution :
- Email :
- Mobile No :
- 6.

Reference No :
Amount :
Bank :
Date :

7. Address for Correspondence :

8. Educational Qualification :

9. Subjects taught so far :

10. No. of refresher courses/workshops attended :

11. Experience (in years) :

Teaching: Research: Industry:

12. Do you belong to SC/ST : YES / NO

(If yes, please specify and attach a copy of caste certificate to claim the concession)

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 Coordinator in case, I am unable to attend the course.

DATE

SIGNATURE OF THE APPLICANT

SPONSORSHIP CERTIFICATE

Dr. /Mr. /Ms. is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on “Machine Learning Tools for IoT Applications”, sponsored by Electronics & ICT Academy during 12th – 22nd July, 2021 at NIT Warangal.

Signature of Head of Institution
(with seal)

Address for correspondence

Post your application form

Dr. G Sucharitha

Associate professor (HOD)

Dept. of CSE,

Institute of Aeronautical Engineering, Hyderabad

Email : g.sucharitha@iare.ac.in

Ph. No : 09573097536

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

Registration Link:

<https://forms.gle/DVsJXca79qt2eNHs7>

For more details about Electronics & ICT Academy, NIT, Warangal, please visit:

<https://nitw.ac.in/eict>

For more enquiries please contact:

Dr. G. Sucharitha

Mobile: 9573097536

Email : g.sucharitha@iare.ac.in

fdp.eict@gmail.com

Coordinator

DR. M. SRINIVAS

Ph.D.(IITH), Post-Doc(Academia Sinica, Taiwan and ETS, Canada)

Computer Science and Engineering

NATIONAL INSTITUTE OF TECHNOLOGY

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DR. G SUCHARITHA

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