



ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP) ON MACHINE LEARNING AND DEEP LEARNING FOR REALTIME APPLICATIONS



(26th April – 7th May, 2021)

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

Federal Institute of Science and Technology, Ernakulam -683577, Kerala
(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, Gol. 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.

This faculty development programme (FDP) is devoted to addressing the need to enhance the knowledge about the latest technologies pertaining to **Machine Learning Using Python for Real Time Applications** is being conducted at **National Institute of Technology, Warangal**. The whole course is handled by academicians and industry experts.

Major Course Contents:

- **Introduction about machine learning, Types of Learning algorithms**
- **Un supervised learning methods, Partitioned and hierarchical clustering methods**
- **Feature representation, Selection and extraction**
- **Regression models (linear and polynomial)**
- **Bayesian learning, decision tree based Classification methods**
- **Dimensionality reduction methods,**
- **Hands on to implementation of supervised and unsupervised methods**
- **Support vector machine classification and application**
- **Neural networks and practical implementations**
- **Real time applications using machine learning**
- **Medical image data processing and analysis**
- **Hands on to implementation of medical image data Processing and analysis**
- **Video analytics and computer vision applications**
- **Object detection using machine learning methods**

Faculty conducting this programme:

The programme will be conducted by the faculty members from NIT Warangal; Academicians in the concerned field from IITs/NITs/IITs are invited to deliver lectures in the programme. Speakers from industries are also expected to deliver as part of the course.

Eligibility:

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

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 |

How to apply:

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

<https://forms.gle/CV68WABJnkxaPJ2dA>

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 for submission of Application | 15/04/2021 |
| Selection List by E- mail | 17/04/2021 |
| Duration | 26th April – 7th May, 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. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

About FISAT:

Federal Institute of Science and Technology (FISAT) emerged as one of the most respected and sought after technical education brands in engineering by bringing in a whole new educational culture modelled on academic excellence, world class infrastructure and cutting edge research and innovation facilities. Established in the year 2002 under the aegis of Federal Bank Officers' Association Educational Society, an initiative of Federal Bank Officers' Association, it has built a stellar reputation for educational excellence, raising the bar high for the whole sector. The college is approved by All India Council for Technical Education (AICTE), accredited by NAAC with A Grade, NBA accredited programmes, an ISO 9001:2015 certified institution and affiliated to APJ Abdul Kalam Technological University, Kerala. FISAT Won many laurels like the National Ranking of 'Atal Ranking of Institutions On Innovation Achievements – (Band B 26th-50th) by the Ministry of Education, Govt of India. and the National Ranking of 'Outstanding Engineering Colleges of Excellence – (7th rank) by the CSR-GHRDC survey, New Delhi.



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SPONSORSHIP CERTIFICATE

1. Name :
2. Designation :
3. Institution :
4. Email :
5. Reference No: Bank: Date:

Dr. /Mr. /Ms. is an employee of our Institute/Organization and is hereby sponsored to participate in the online FDP on “**Machine Learning and Deep Learning for Real Time Applications**”, sponsored by Electronics & ICT Academy during **26th April – 7th May , 2021**.

Amount:

Signature of Head of Institution
(with seal)

6. Address for Correspondence:

Interested faculty members, please fill the following Google form:

<https://forms.gle/CV68WABJnkxaPJ2dA>

7. Educational Qualification:
8. Subjects taught so far:

Address for correspondence
Post your application form

9. No. of refresher courses/workshops attended:
10. Experience (in years):
Teaching: Research: Industry:

Dr. J. Ravi Kumar,
Dept. of ECE,
National Institute of Technology
Warangal – 506004
Telangana, India

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

For more details about Electronics & ICT Academy, NIT, Warangal, please visit: <https://nitw.ac.in/eict>

For more enquiries please contact:

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.

Mrs. Dhanya. S,
Dept. of ECE, FISAT, Kerala.
Email: dhanyas@fisat.ac.in
Ph. No: 9539533446 / 7736458963

Signature of the Applicant

Coordinators

Dr. J. Ravi Kumar, Dept. of ECE, NIT Warangal
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