



**FACULTY DEVELOPMENT PROGRAMME (FDP)**  
**ON**  
**MACHINE LEARNING USING PYTHON FOR REAL TIME APPLICATIONS**  
**(9<sup>th</sup> - 16<sup>th</sup> November 2020)**

**Organized by**  
**E & ICT Academy, NIT Warangal**

**(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 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/IIITs 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/Xchzz9ddQh34tQwG8>

**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	05/11/2020
Selection List by E- mail	6/11/2020
Duration	9/11/2020 to 16/11/2020

**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.

The Department of **Computer Science and Engineering (CSE)** offers B.Tech course in CSE, M.Tech courses in CSE, Computer Science and Information Security (CSIS) and Master of Computer Applications (MCA). The Department has experienced faculty with good publications and well-established laboratories. The Department has liaison with reputed industries and R&D organizations like Microsoft, IBM, Oracle, Accenture, Infosys, TCS, EMC 2 , C-DAC, Motorola, NIC, Sun Micro Systems, SPSS and tie up with IISc in certain areas. Department conducts various sponsored programmes throughout the year.



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**SPONSORSHIP CERTIFICATE**

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

Amount:

6. Address for Correspondence:

Signature of Head of Institution  
(with seal)

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

Interested faculty members, please fill the following  
Google form:  
<https://forms.gle/eS1iLQCmyqSzs7Yv9>

**Address for correspondence**  
*Post your application form*

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

**Dr. M. Srinivas,**  
**Assistant Professor,**  
**Dept. of CSE,**  
**National Institute of Technology**  
**Warangal – 506004**  
**Telangana, India**

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

**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.

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

*For more enquiries please contact:*  
**Dr. M. Srinivas**  
**Mobile: +91 8897064421**

Signature of the Applicant

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**Coordinator**

**Dr. M. Srinivas**  
**Dept. of Computer Science**  
**NIT Warangal—506 004**  
**Email: msv@nitw.ac.in**