



## FACULTY DEVELOPMENT PROGRAMME (FDP) ON



# MACHINE LEARNING AND DEEP LEARNING

(10<sup>th</sup> – 15<sup>th</sup> November, 2018)

Organized by

Aditya Engineering College (A), Surampalem, E.G. Dist., A.P.

in association with

**E & ICT Academy, National Institute of Technology, 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, 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.

### About the Workshop:

The proposed FDP introduces fundamental concepts of Machine Learning and Deep Learning. It covers an overview of machine learning and Deep Learning algorithms and their applications. The training comprises of a series of lectures and practical exercises. The participants obtain deep insights of machine learning, which in turn helps them to apply it in practice or as a foundation to a deeper study in this area.

### Major Course Contents:

- Machine Learning :Introduction
- Supervised Vs Unsupervised Learning
- Linear Regression
- Decision Trees, KNN
- Bayesian Networks, SVM
- Clustering :K Means
- Introduction to Deep Learning
- Feed Forward Neural Networks
- Back Propagation, Computing Gradients
- Principal Component Analysis
- Auto Encoder
- Convolutional Neural Networks
- Recurrent Neural Networks
- Difference Between Statistical modelling ,Machine learning and Deep Learning
- Hands on session using R and Python.

### 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 programme is open to 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. 2500/-
Faculty of SC/ST Category	Rs. 1875/- (SC/ ST participants should submit the copy of their caste certificate to claim the concession along with application form)
Industry Participants	Rs. 7500/-

**SC/ST concession is only for faculty of mentioned states. Research Scholars are not eligible for SC/ST concession.**

The fee is to be paid either in the form of DDs or online transfer using the following details:

DD Details	Online Transfer Details
Demand Draft in favor of "Director, NIT Warangal" payable at any bank in Warangal	Account Name: Electronics & ICT Academy NITW Account No: 62423775910 IFSC: SBIN0020149

### Accommodation:

Accommodation will be provided to the selected outside participants on prior request. No TA/DA will be paid for the participants. Working Lunch, Tea & Snacks would be provided during the Training in the campus.

### How to apply:

A filled in form of application in the prescribed format duly signed and sponsored by appropriate authorities (along with demand draft) should reach the coordinator by speed-post. It is also mandatory to send scanned application form and demand draft through e-mail to [mdlfdp2018@aec.edu.in](mailto:mdlfdp2018@aec.edu.in) as selection will be intimated only through mail.

### Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 50 (fifty). 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 & DD)	3rd November 2018
Selection List by E- mail	5th November 2018
Duration	10th– 15th November 2018

### 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 Aditya Engineering College:

Aditya Engineering College (AEC) was established in the year 2001. It is in top 10 institutions in engineering education in terms of academics & placements in AP. The college offers UG programs in CE, EEE, ME, ECE, CSE, IT, PT, Min.E, Ag.E and PG programs in MCA, MBA, M.Tech in PE, PID, VLSID, CSE, SE, TE, ES, St.E. AEC has state of the art infrastructure, resources, well-furnished lecture halls, highly equipped labs, and library. AEC was conferred NAAC 'A' grade in 2015 and autonomous status by UGC since 2017-18.



## APPLICATION FORM



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

DD	Online Transfer
DD No:	Reference No:
Amount:	
Bank :	
Date:	

- Address for Correspondence:
- Educational Qualification:
- Subjects taught so far:
- No. of refresher courses/workshops attended:
- Experience (in years):  
Teaching:      Research:      Industry:

- Accommodation required:      YES /NO
- 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.

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 and Deep Learning**”, sponsored by Electronics & ICT Academy during 10<sup>th</sup> – 15<sup>th</sup> November, 2018 at **Aditya Engineering College (A), Surampalem.**

Signature of Head of Institution  
(with seal)

#### Address for correspondence

Post your application form with DD to

**Dr. S. Rama Sree**

**Training Coordinator for FDP on “Machine Learning and Deep Learning”**

**Professor and Vice Principal**

**Department of CSE,**

**Aditya Engineering College,**

**ADB Road, Surampalem,**

**Near Peddapuram, E.G. Dist., A.P. – 533437**

*E-mail the scanned copies of filled-in and duly signed application form along with DD to*

[mldfdp2018@aec.edu.in](mailto:mldfdp2018@aec.edu.in)

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

*For more enquiries please contact:*

**Mobile: 7036176662**

### Coordinators

**Prof. R. B. V. Subramanyam**

**Professor & Head, Dept. of CSE  
NATIONAL INSTITUTE OF TECHNOLOGY  
WARANGAL – 506 004 (Telangana State)**

**Dr. S Rama Sree**

**Professor & Vice Principal, Dept. of CSE  
Aditya Engineering College,  
E.G. Dist., A.P. – 533 437**