



# Recent Trends in Machine Learning Techniques and it's Applications using Python

(04<sup>th</sup> July - 13<sup>th</sup> July, 2022)

Organised by

**Electronics & ICT Academy, NIT Warangal jointly with  
MLRIT Hyderabad & IIITDM Kurnool**

**(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 (FDPs) in standardized courses and emerging areas of Electronics, Information Communication Technologies, training and 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 FDP is devoted to address the need to enhance the research knowledge about the recent trends pertaining to Machine Learning in real-time applications and by using python towards potential research with instructive skills in the domain of Machine Learning.

## Major Course Contents:

### Machine Learning:

- ❖ Introduction to Machine Learning
- ❖ Challenges and opportunities in Machine Learning
- ❖ Dimensionality Reduction, Regression Models
- ❖ Supervised Learning, unsupervised Learning
- ❖ Reinforcement Learning, Searching Techniques
- ❖ Regression, Classification, SVM, Decision Trees
- ❖ Clustering, Association, Neural Networks
- ❖ Optimization Methods
- ❖ Metaheuristic Methods
- ❖ Real time Applications

### Python Programming:

- ❖ Python Flow Control, Python Functions, Python Files
- ❖ Python Objects & Classes
- ❖ Pandas, Numpy, Matplotlib

### Python Advanced Topics:

- ❖ Python Iterator, Python Generator,
- ❖ Python Closure, Python Decorators, Python Property

**Real Time Projects and Case Studies will be discussed**

## Faculty conducting this programme:

The programme will be conducted by the faculty members from NIT Warangal as well as Academicians in the concerned field from IITs/NITs/IIITs and other reputed Institutes. Speakers from industries are also expected 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: <b>Electronics &amp; ICT Academy NITW</b>
Account No: <b>62423775910</b> , IFSC: <b>SBIN0020149</b>
Bank and Branch: <b>State Bank of India, NIT(REC) Warangal</b>

## How to apply:

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

<https://forms.gle/4SWA1GJg9U2Sx5wS7>

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

## 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 & DD)	<b>30-06-2022</b>
Selection List by E- mail	<b>02-07-2022</b>
Duration	<b>04-07-2022 to 13-07-2022</b>

## 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 programmes in various specializations. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

## About IIITDMK:

Indian Institute of Information Technology, Design & Manufacturing, Kurnool (IIITDMK) was announced in 2014 after receiving the assent of President of India to the Institutes of Information Technology Act, 2014, and its subsequent publication in the Gazette of India, Extraordinary, Part- II, Section I, on December 08, 2014. The institute was announced by Government of India to give effect to its obligation under the Andhra Pradesh reorganization act 2014. IIITDM Kurnool is fully funded by Ministry of Education.

## About MLRIT:

MLR Institute of Technology (MLRIT), established in 2005, approved by the AICTE, permanently affiliated to JNTUH, is one of the youngest engineering colleges in Telangana with UGC Autonomous status, NBA Tier- I and NAAC A Accredited. MLRIT enjoys flagship status among top engineering colleges in Telangana for the past consecutive academic years with 3 times NIRF ranking. The college is offering 10 UG courses 5 PG Courses. MLRIT is recognized by The MHRD IIC, Govt. of India. The college has MSME supported Intellectual Property Facilitation Center (IPFC) for filing IPRs. In addition to that the college has entered into MoU with PURDUE University and developed programmes like EPICS & SPEED.

## About the Department:

The Department of Information Technology was established in the year 2005. The Current intake of the Department is 180. The department is accredited with NBA. The department is having research collaboration and MOUs with MNC Companies like Virtusa, EPAM and other Prestigious Organizations IIT Hyderabad. The Department is housing CSI Student Chapter, SCOPE, Coding Club, CIE Club working towards promoting research and development.

Visit: [www.mlrinstitutions.ac.in/IT/AboutCourse](http://www.mlrinstitutions.ac.in/IT/AboutCourse)



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### SPONSORSHIP CERTIFICATE

1. Name :

Dr. /Mr. /Ms. .... is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on "Recent Trends in Machine Learning Techniques and it's Applications using Python", sponsored by Electronics & ICT Academy during 04<sup>th</sup> July -13<sup>th</sup> July, 2022 at IIITDM Kurnool and MLR Institute of Technology Dundigal Police Station Road, Hyderabad.

2. Designation :

3. Institution :

4. Email :

5. Mobile No :

6.

Reference No:

Signature of Head of  
Institution (with seal)

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

Signature of Head of  
Institution (with seal)

### Address for Communication

Post your application form

**Dr. A. BALARAM**

**Professor**

**Department of IT**

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Station Road, Hyderabad. -500043.**

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**Contact No: 9642290583**

**Email: [drtvnraju@mlrinstitutions.ac.in](mailto:drtvnraju@mlrinstitutions.ac.in)**

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.

### Coordinators

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