



**G.NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE (For Women)  
(AUTONOMOUS)**

**Shaikpet, Hyderabad – 500104**

Department: Electronics and Telematics Engineering

2021-22

REPORT

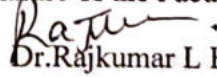
Online FDP on Artificial Intelligence and Machine Learning with Python Programming

Date of program: 11-10-2021 to 22-10-2021

Resource person: Prof T.Y Melligeri and Dr. J. Ravi kumar

About the Program: In the "Online FDP on Artificial Intelligence and Machine Learning with Python Programming" was a transformative experience. The comprehensive curriculum and hands-on Python programming sessions equipped me with practical skills at the intersection of AI and machine learning. The expert-led discussions and real-world applications shared during the FDP not only deepened my understanding of these cutting-edge technologies but also provided me with valuable insights into their effective implementation. This program has undoubtedly enhanced my proficiency in AI and machine learning, empowering me with the tools to contribute meaningfully in this rapidly advancing field.

Signature of the Faculty member

  
Dr. Rajkumar L Biradar  
Professor ,ETE



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**TWO WEEK ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP)**  
**ON**  
**ARTIFICIAL INTELLIGENCE & MACHINE LEARNING WITH PYTHON PROGRAMMING**  
 11th October to 20th October 2021  
 Organized by  
**E & ICT Academy, National Institute of Technology, Warangal.**  
 In Association with  
**Department of Electronics & Communication**  
**B.L.D.E.A's V.P. Dr. P.G. Halakatti College of Engineering & Technology, Vijayapur**  
 (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.

**About the Workshop:**

Technology plays a major role in day to day life activities. To drive a huge attention of consumer, companies are relying on advance algorithms to make things easier. Artificial intelligence and Machine learning are the major technologies in recent scenario. The advancements in Machine Learning create an exemplary rise in technological industry. The Artificial Intelligence goes ahead in developing a more intelligent computer system that adapts, evolves and learns. This has tremendous application in industry, defense, healthcare, agriculture and many other areas. This FDP will be a platform in gaining knowledge in Artificial Intelligence & Machine Learning domains.

**Major Course Contents:**

- Introduction to AI & ML and its applications in real world
- Introduction to Python (Hands-on)
- Linear Regression
- Polynomial Regression
- Logistic Regression along with data preprocessing and feature analysis (Hands-on)
- Exploratory data analysis with Seaborn, SVM, K means clustering (Hands-on)
- Bayesian learning, decision tree based classification methods
- Dimensionality reduction methods
- Introduction to Deep learning methods and applications, CNN, RNN
- Neural networks and practical implementation
- Sentimental analysis, Dialogue systems (Hands-on)
- Vanishing gradient problem (Hands-on)
- Ensemble modeling techniques
- Reinforcement Learning, Optimization and Data driven Methods
- GAN

**Faculty conducting this programme:**

The programme will be conducted in online mode 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 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. 750/-
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Industry Participants	Rs. 2250/-
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The fee is to be paid through online transfer 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 in the Online registration form given in the below link:

<https://forms.gle/Skj6v67hbAmbUfK9>

**Selection Criteria:**

Selection will be done based on first-come-first-serve basis to a maximum number of 100. Additionally 10 participants from industry are allowed to participate. The list of selected participants will be intimated through e-mail. 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 Registration	8 <sup>th</sup> October, 2021
Selection List by E- mail	9 <sup>th</sup> October, 2021
Duration	11 <sup>th</sup> October-20 <sup>th</sup> October, 2021

**About NIT Warangal:**

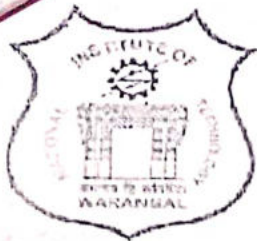
National Institute of Technology, Warangal is the first among 17 RECs setup as joint venture of the Government of India and the state government. Over the years the college has established itself as a premier Institute imparting technical education of a very high standard leading to the B.Tech degrees 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 B.L.D.E.A's C.E.T:**

Since 1980, BLDEA's Vachana Pitamaha Dr. P. G. Halakatti College of Engineering and Technology, Vijayapur, Karnataka famously known as BLDEACET is imparting state of the art Quality Education to aspiring students of Engineering, Architecture, Business Administration and Computer Applications with emphasis on skill enhancement in their respective programs. We wish to be recognized as Global Institute by offering Courses and Research in the sectors of Engineering, Architecture, Business Administration and Computer Applications. Accredited by NBA, NAAC, ISO, we are aiming for Accreditation Board of Engineering and Technology (ABET), USA which will be pride for us to be recognized as Globally Renowned Institute. We are preferred by Government of India, Government of Karnataka and foreign Universities for collaborative Research and Development Projects serving various Nations and Regions. We are building up our Academic, Research and Professional relations with Foreign Universities and offering unlimited opportunities for our faculty and students through study exchange programs. To support a student in their studies, we are offering various internship programs in Multinational Companies.

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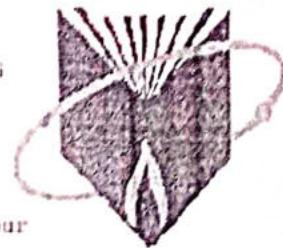


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**SPONSORSHIP CERTIFICATE**

1. Name :
2. Designation :
3. Institution :
4. Email :
5. Mobile No :
- 6.

Dr./Mr./Ms. .... is an employee  
of our Institute/Organization and is hereby sponsored to  
participate in the FDP on "Artificial Intelligence and Machine  
Learning with Python Programming", sponsored by Electronics &  
ICT Academy during 11<sup>th</sup> - 20<sup>th</sup> October, 2021.

Online Transfer
Reference No:
Amount:
Bank:
Date:

Signature of Head of Institution  
(With seal)

Registration Link:

<https://forms.gle/5kjd6v67hbAmbUfK9>

For more details about Electronics & ICT academy, NIT,  
Warangal, please visit: <https://nitw.ac.in/eict>  
[www.bldeacet.ac.in](http://www.bldeacet.ac.in)

For more enquiries please contact:

1. Prof.M.N.Deshmukh-9008695484
2. Prof.V.C.Sajjanar-9980677175
3. Prof.P.S.Patil-9036846337
4. Prof.D.I.Hatti-9538711154

**Coordinators:**

**Prof.T.Y.Melligeri**  
Assistant Professor,  
Dept. of ECE,  
B.L.D.E.A's C.E.T, Ashram Road,  
Vijayapur, Karnataka- 586103

**Dr.J.Ravi Kumar**  
Associate Professor,  
Dept. of ECE,  
National Institute of Technology,  
Warangal, Telangana - 506004.

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7. Address for Correspondence :

8. Educational Qualification :
9. Subjects taught so far :
10. No of refresher courses/workshops attended:
11. Experience (in years) :
12. Teaching:      Research:      Industry:
13. Do you belong to SC/ST :

**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: