



ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP)

ON

Deep Learning and AI Applications

(2nd. 10th August 2021)

Organized by

E & ICT Academy, NIT Warangal

in association with

Geethanjali College of Engineering and Technology, Hyderabad

(An Autonomous Institution affiliated to JNTUH)

(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's 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 FDP:

The Faculty Development Programme will help to disseminate the knowledge in the domain of data science and Machine learning. It empowers the participants to understand how data science can be used to innovate and improve the business process. Machine Learning is a fast-growing field of Artificial Intelligence concerned with the study and design of computer algorithms for learning good representations of data, at multiple levels of abstraction. Since data is overwhelming, organizations are struggling to extract the powerful insights they need to make smarter business decisions. The participants will be trained with hands-on approach in order to have an in-depth insight into the domain of Data Sciences and expose them to Feasibility & future scope

Major Course Contents:

1. Introduction to Artificial Intelligence, Machine Learning,
2. Deep Learning and Representation Learning
3. Machine Learning Basics – Linear Regression, logistic
4. Feature Representation and selection
5. Perceptron's, Multilayer Perceptron's, Stochastic Gradient Descent, Back propagation
6. Deep Learning Regularization Techniques: L1, L2, Noise Injection, Data Augmentation, Dropout, Ensemble, Parameter Sharing, etc.
7. Basics of Tensor Flow/Keras/PyTorch
8. Google Co lab and Python
9. CNN Architecture and Deep Learning models
10. Object detection RCN and FRCNN
11. Image Segmentation UNet Model
12. Computer Vision Applications: Image Classification, Object Recognition and detection using Tensor Flow
13. RNN Architecture and LSTM,
14. Natural Language Processing (NLP) Applications : Machine Translation using Tensor Flow/PyTorch
Current Research – Latest Architectures, Applications
15. Hands on Sessions

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.

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
Bank and Branch: State Bank of India, NIT (REC) Warangal

How to apply:

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

<https://forms.gle/D2LdsDnfAarmjFg88>

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)	30.07.2021
Selection List by E- mail	31.07.2021
Duration	2/8/2021 to 10/8/2021

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

About Geethanjali College of Engineering:

Geethanjali College of Engineering & Technology is established in the year 2005. The campus epitomizes the Geethanjali motto, "Striving towards perfection" in providing the best of infrastructure and ambience. Geethanjali keeps a keen eye on the current trends and innovations happening in the industry and offers learning methods, which are designed to meet the evolving requirements of the industry. The college is recognized as Scientific and Industrial Research Organization (SIRO) by the Directorate of Scientific and Industrial Research (DSIR) –New Delhi. It is NAAC accredited with 'A' grade. Three programs B.Tech. (CSE), B.Tech (ECE) & B.Tech (EEE) of GCET are accredited by NBA, New Delhi .At Geethanjali, perfection is a passion. Currently the college offers Under Graduate program in B.Tech in CSE, ECE, EEE, ME, CE, Computer Science and Engineering Specialization (CSE-AI&ML, CSE-IoT, CSE-CS, CSE-DS) and Post-Graduate program M.Tech in Computer Science and Engineering and MBA.



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

Reference No:
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

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.

SPONSORSHIP CERTIFICATE

Dr. /Mr. /Ms. is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on **"Deep Learning and AI Applications"**, sponsored by Electronics & ICT Academy during **2nd - 10th August, 2021** at NIT Warangal.

Signature of Head of Institution (with seal)

Address for correspondence

Post your application form

Dr. Puja. S. Prasad

Department of Computer Science and Engineering
Geethanjali College of Engineering &Technology
Cheeryal Village, Keesara Mandal, Hyderabad
Telangana, India - 501301

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.

Registration Link:

For more details about Electronics & ICT Academy, NIT, Warangal, please visit:

<https://nitw.ac.in/eict>

For more enquiries please contact:

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Mrs.G Y Vybhavi

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Email: puja.s.prasad@gmail.com

Date

Signature of the Applicant

Coordinators

Dr. M. Srinivas

Ph.D. (IITH), Post-Doc (Academia Sinica, Taiwan and ETS, Canada)
Computer Science and Engineering
NATIONAL INSTITUTE OF TECHNOLOGY
WARANGAL - 506 004 (Telangana State)
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