ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP) ON
Research Issues in AI: Applications of Machine Learning, Computer Vision and NLP
(20th October – 30th October 2021)
Organised by
Electronics & ICT Academy, NIT Warangal
in association with
VR Siddhartha Engineering College, Kanuru
(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 the 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 AI and Machine Learning can be used to innovate and improve the business process and Real time applications. ML 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 AI and expose them to Feasibility & future scope

Major Course Contents:

❖ Introduction to AI and Machine Learning
❖ Research in Machine Learning
❖ Recommendation Systems
❖ Introduction to Python
❖ Feature Representation
❖ Unsupervised Learning Methods, K-Means
❖ Supervised Learning Methods
❖ Decision Trees
❖ Linear Regression: Simple and multiple linear regressions
❖ Optimization methods
❖ Feature Selection Methods
❖ Dimensionality Reduction Methods (PCA)
❖ Hands on sessions on Unsupervised and Supervised Methods
❖ Supervised Learning Methods on Real Time Applications
❖ Support Vector Machines and Neural Networks
❖ Meta Heuristic Approaches
❖ Ensemble Methods and Matrix Vectorization
❖ Computer Vision and NLP related Applications

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/FTcxzJfDftaELzZ47

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)	18.10.2021
Selection List by E- mail	19.10.2021
Duration	20.10.2021 to 30.10.2021

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

About VRSEC:

Velagapudi Ramakrishna Siddhartha Engineering College (VRSEC) was established in 1977 as the first self-financed engineering college in the composite state of Andhra Pradesh. It is located in 24 acres of land at a distance of about 6 Kms from Vijayawada. Currently, the college offers 08 undergraduate programmes and eleven Post graduate programmes including MCA&MBA. VRSEC got recognitions from various accreditation bodies such as National Assessment and Accreditation Council (NAAC) with A+, National Institute Ranking Framework (NIRF) with 178, Atal Ranking of Institutions on Innovation Achievements (ARIIA) – Band A (6-25 rank), AICTE Margadarshan - Sharing and Mentor Institute, one of the institutions run by Siddhartha Academy of General and Technical Education Recognized as 'Scientific & Industrial Research organization (SIRO)- DSIR, Govt. of India. The institute has 05 Centers of Excellence, Excellence Centres & 11 industry collaborative labs including Siemens Center of Excellence & CM Skill Excellence centre. Currently, the institute is having 330 dedicated and competent faculty with strong inculcation towards teaching and learning in line with Washington Accord (USA) on OBE and on the research.

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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

(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.

Date   **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 **"Research Issues in AI- Applications of Machine Learning, Computer Vision and NLP"**, sponsored by **Electronics & ICT Academy** during **20th October – 30th October, 2021** at VR Siddhartha Engineering College, Kanuru.

Signature of Head of Institution
(with seal)

Address for correspondence
Post your application form
Dr. M. Suneetha
Department of IT
VR Siddhartha Engineering College, Kanuru,
Vijayawada, Andhra Pradesh, INDIA-520007.

It is requested to all the delegates, after completion of application form, all the payment details, screenshot of the payment 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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Coordinators

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