Faculty Development Programme (FDP)
on
AI for Building Speech Applications using Python
(1st to 5th April 2019)
Organized by
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
National Institute of Technology, Warangal
Under the scheme of Electronics & ICT Academy
(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, Govt. of India (GoI). The jurisdiction of this academy is Telangana, Andhra Pradesh, Andaman and Nicobar Islands, Goa, Puducherry and Karnataka states/UTs. This academy role is to offer faculty development programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, Curriculum development for Industry, Training & Consultancy services for Industry; CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

Artificial Intelligence is so pervasive today that you probably use it dozens of times a day without knowing it. Artificial intelligence involves two basic ideas. First, it involves studying the thought processes of human beings. Second, it deals with representing those processes via machines (like computers, robots, etc.). The traditional problems (or goals) of AI research include learning, natural language processing, planning, knowledge representation, perception and the ability to move and manipulate objects. Speech Processing is a scientific discipline as well as a technology frontier with immense applications. As a scientific discipline it has a long history and as a technology area it is intensively explored both by industry and academia. On one side of the spectrum is the speech & language sciences, such as linguistics, phonetics and psychoacoustics, and on the other side are the signal processing theory and pattern recognition and artificial intelligence. Research in speech processing has always involved AI, current research is benefiting from even closer interaction between these fields. Speech Processing is continually mining new ideas from AI and AI, in turn, is devoting more interest to speech applications. The aim of the workshop is to contribute to the cross fertilization between the research on AI algorithms and their applications to Speech Processing.

Major Course Contents :

- ➢ **Introduction to Python**
- ➢ **Overview of speech processing**
- ➢ **AI and It's Applications**
- ➢ **AI In Speech processing**
- ➢ **Speech Application using python**
  - • **Speaker Recognition**
  - • **Speech Emotion Recognition**

Hands on session on the above topics will be provided.

Faculty Conducting this Programme :

The programme will be conducted by the faculty members from NIT Warangal. Academicians from **IITs / NITs / IIITs** in concerned field are invited to deliver lectures in the programme. Speakers from industries are also expecting to deliver as part of the course.

Eligibility :

The programme is open to the faculty of engineering colleges and other allied disciplines in India. Industry personnel working in the concerned/allied discipline can also attend.

Registration Fee Particulars:

- • **Faculty / Research Scholars** : Rs. 2,500/- Only
- • **SC/ST Faculty** : Rs. 1,875/- Only
  (Should submit Caste Certificate to claim concession)
- • **Industry participants** : Rs. 7,500/- Only

SC/ST Concession is only for Faculty of mentioned states. Research scholars are not eligible for SC/ST Concession.

The participants need to send a crossed demand draft (DD) drawn in favor of "**E & ICT Academy, NIT Warangal**" payable at SBI, NIT Warangal branch or remit the necessary course fee to the Bank as per the details given below.

Account Name	Electronics & ICT Academy NITW
Account Number	62423775910
Name	State Bank of India
Branch	REC Warangal (NIT Campus)
Branch Code	20149
IFSC	SBIN0020149

Accommodation :

All the selected participants will be provided FREE boarding & lodging in the institute. No TA will be paid for the participants.

How to Apply :

A filled in form of application in the prescribed format duly signed and sponsored by appropriate authorities (along with DD/NEFT Receipt) should reach the coordinator by speed post. It is also mandatory to send scanned application form and DD/NEFT receipt through e-mail to **ssp.nitw@gmail.com** as selection will be intimated only through mail.

Selection Criteria :

Selection will be done based on *first-cum-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 demand draft will be sent back. A test will be conducted at the end of the course. Candidates will be issued satisfactory certificates on successful completion of the course along with the assessment test. Reservations are followed for selecting candidates as per **GOI** norms.

Important Dates :

Last date for submission of application : **25th March, 2019**
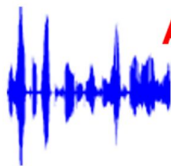Selection-list intimation/display before : **28th March, 2019**
Duration of Program : **1st to 5th April, 2019**

About the Institute, Department and Warangal :

National Institute of Technology (formerly Regional Engineering College), 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 Institution 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.

The Department of Electronics and Communication Engineering offers B.Tech. course in ECE, M.Tech. courses in Advanced Communication Systems (ACS), VLSI Design and Electronic Instrumentation. The Department has experienced faculty with good publications and well-established laboratories. The Department has liaison with reputed industries and R&D organizations.

Warangal is known for its rich historical and cultural heritage. It is situated at a distance of 140Km. from Hyderabad. Warangal is well connected by rail and road. National Institute of Technology campus is 2 Km. away from Kazipet station and 12Km. away from Warangal station.

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APPLICATION FORM

1. Name of the Applicant :

2. Designation :   3. Institution   :

4. E-mail ID   :   5. Mobile No.   :

6. Category   7. Payment Mode

   ☐ Faculty/Scholars   (Rs. 2,500/-)   ☐ Demand Draft No: _____

   ☐ SC/ST Faculty from mentioned states (Rs. 1,875/-)   ☐ NEFT/ UTR No. : _____

   ☐ Industry Participants   (Rs. 7,500/-)   Bank : _____ Date : _____

8. Address for Correspondence :   9. Subjects taught so far :

10. Educational Qualifications with specialization :

11. No. of refresher courses/workshops attended :

12. Experience (in years) : [   ]   Teaching [   ]   Research [   ]   Industry [   ]

13. Do you belong to reservations SC/ST **(YES / NO)** : If YES, please specify* * Attach photo copy

14. Do you require accommodation during Training : **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.

Place   :
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 "AI for Building Speech Applications using Python" sponsored by Electronics & ICT Academy during 1st to 5th April, 2019 at NIT Warangal.

Place   :
Date   :   **Signature of Principal / Head of Institution**

Address for correspondence

Post your application form along with DD/NEFT Receipt to

Prof. T. Kishore Kumar, Coordinator,
Department of Electronics and Communication Engineering,
National Institute of Technology, Warangal,
Warangal, Telangana - 506 004.

Mail the scanned copies of filled-in and duly signed application form with DD to

ssp.nitw@gmail.com

For any enquiry contact:

Mobile: 8332969353   Office: 0870 –2462440

For more details about Electronics and ICT academy please visit: **http://www.nitw.ac.in/eict/**