

FACULTY DEVELOPMENT PROGRAMME (FDP)

ON

MACHINE LEARNING WITH PYTHON (26th NOV 2018 to 1st DEC 2018)



Organized by
E & ICT ACADEMY, NIT Warangal
And

Swami Vivekananda Institute of Technology, Secunderabad (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. This faculty development programme (FDP) is devoted to fundamental theory, recent developments and research outcomes addressing the related theoretical and practical aspects of Machine learning algorithms.

Major Course Contents: Machine Learning describes algorithms for writing computer programs that automatically improve their performance with experience.

- Basic Machine Learning concepts and examples.
- Nearest-neighbor algorithms.
- · Support vector machines.
- Kernel methods.
- Decision trees.
- Ensemble methods (Boosting, Bagging).
- Logistic regression.
- Multi-class classification (conditional maxent models, binary classifiers and error- correction codes).
- Regression (linear regression, kernel ridge regression, lasso, neural networks).
- Unsupervised learning methods, sparse representation and dictionary learning, dimensionality reduction, neural networks, introduction to deep learning, CNN.
- Clustering (K-means, DT clustering).
 Dimensionality reduction (PCA, KPCA).
- Introduction to reinforcement learning. An insight on deep learning algorithms.
- Various applications in imaging and video analytics

Faculty conducting this programme:

The programme will be conducted by the faculty members from **NIT Warangal**. Academicians in the concerned field from **Reputed Institutes** 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 the teachers of engineering colleges, MCA colleges and other allied disciplines in Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry and Andaman & Nicobar Islands. Industry personnel working in the concerned/allied discipline can also attend.

Registration Fee Particulars:

- Faculty and Research Scholars: Rs 2500/- Only
- Industry participants: Rs 7500/-Only
- Faculty of SC/ST category: Rs 1875/- Only

The participants need to send a crossed demand draft (DD) drawn in favour of "Director, NIT Warangal" and payable at SBI, NIT Warangal branch.

How to apply:

A filled in form of application in the prescribed format duly signed and sponsored by appropriate authorities (along with demand draft) should reach the coordinator by speed-post. It is also mandatory to send scanned application form and demand draft through e-mail to hod.cse@jits.ac.in as selection will be intimated only through mail.

Selection Criteria:

Selection will be done based on *first-cum-first-serve basis* and the confirmed candidates will be notified immediately. The maximum number of participants will be **50** (fifty). Additionally 10 participants from industry are allowed to participate. The list of selected participants will be notified in the institute web site www.nitw.ac.in/eict and also will be sent to their personal *e-mail* ids. 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 certificates on successful completion of the course along with grade. Reservations are followed for selecting candidates as per GOI norms.

Important dates:

Last date for submission of application: 25/11/2018 Selection-list intimation/display before: 26/11/2018 Duration of Program: 26th NOV – 1st DEC 2018

About the Institutes:

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 and M.Tech. and Ph.D programs in various specializations.

The Department of Computer Science and Engineering (CSE) offers B.Tech. course in CSE, M.Tech courses in CSE, Information Security (IS) and Master of Computer Applications (MCA). The Department has experienced faculty with good publications and well-established laboratories. The Department has liaison with reputed industries and R&D organizations like Microsoft, IBM, Oracle, Accenture, Infosys, TCS, EMC2, C-DAC, Motorola, NIC, Sun Micro Systems, SPSS and tie up with IISc in certain areas. Department conducts various sponsored programmes throughout the year.

FORMAT OF APPLICATION

Electronics and ICT Academy, NIT Warangal and

Swami Vivekananda Institute of Technology, Secunderabad

Faculty Development Programme

on

MACHINE LEARNING WITH PYTHON

(26th NOV 2018 to 1st DEC 2018)

1. Name :	SPONSORSHIP CERTIFICATE
2. Designation :	Dr/Mr/Ms
3. Institution :	is an employee of our Institute/Organization
4. E-mail :	and is hereby sponsored to participate in the FDP on "Machine Learning with Python"
5. Mobile No. :	sponsored by Electronics & ICT Academy during 26th NOV-1st DEC 2018 at Swami
6. DD No :	Vivekananda Institute of Technology, Secunderabad, Telangana State, India.
Bank: Date:	Secunderabad , Telangana State, India.
7. Address for Correspondence	Place:
	Date: Signature of Head of Institution
8. Educational Qualifications with specialization:	(with seal)
9. Subjects taught so far:	Address for correspondence: Post your application form with DD to
10. No. of refresher courses/workshops attended:11. Experience (in years) Teaching: Research : Industry:	DR RAJU BHUKYA Assistant Professor Department of CSE National Institute of Technology Warangal, 506004. Telangana, India.
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:	Mail the scanned copies of filled-in and duly signed application form with DD to drrajunitw@gmail.com, raju@nitw.ac.in, For more information visit: http://nitw.ac.in/eict/ For any enquiry contact: Mobile:7989299553,8897436971,9700553922 E-mail: bsnaik546@gmail.com, raju@nitw.ac.in
Date: Signature of the applicant	

Coordinators

Dr. Raju Bhukya
Assistant Professor
Dept. of Computer Science and Engineering
NIT Warangal

Mr.Shankar Nayak Bhukya

Assistant Professor Dept. of Information Technology SVIT Secunderabad

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