

## “National Level Workshop on Advanced Data Analytics in Machine Learning”

20<sup>th</sup> – 24<sup>th</sup> Dec 2016

### Registration Form

Name:.....

Institution:.....

Department:.....

Year: .....

Address:.....

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Mobile:.....

E-mail ID:.....

Amount:.....

DD No.....

Date:.....

Signature  
of Participant

Signature & seal  
Principal/ HOD

### Registration Details

- ◆ Registration charges per participant: Rs 3000/- (Inclusive of Service tax).
- ◆ Registration charges include course fees, certificate of participation, tea/snacks, lunch and course material.
- ◆ Registration charges will be accepted in the form of **cash/DD** along with duly filled registration form.
- ◆ DD should be drawn in favor of “Vishwakarma Institute of Technology” payable at Pune and should be submitted before **5<sup>th</sup> Dec 2016**. Also softcopy of registration form and scanned copy of DD/receipt should be emailed to [reshma.pise@vit.edu](mailto:reshma.pise@vit.edu) or [shubhada.deshmukh@vit.edu](mailto:shubhada.deshmukh@vit.edu)

### Chief Patrons

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Chairman, BRAC, Pune

**Shri Bajrangdas Lohiya**

Vice Chairman, VI, Pune

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Director, VIT, Pune

### Conveners

**Prof. (Dr.) Manasi S. Patwardhan**

Head, Department of Computer Engineering,  
Dean, R&D Industry Relations,  
VIT, Pune

&

**Prof. (Dr.) Shripad Bhatlawande**

Head, Department of Electronics Engineering,  
VIT, Pune

### Workshop Coordinators

**Prof (Dr.) Vivek Deshpande**

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Bansilal Ramnath Agarwal Charitable Trust's  
**Vishwakarma Institute of Technology, Pune**  
(An Autonomous Institute affiliated to Savitribai Phule Pune University)



One Week National Level Workshop  
On

## “Advanced Data Analytics in Machine Learning”

(20<sup>th</sup> to 24<sup>th</sup> Dec 2016)

Organized by

Department of Computer Engineering  
& Department of Electronics Engineering



In Association with



University of Pune



## About The Institute and Departments

Vishwakarma Institute of Technology, Pune, a highly commendable private institute, occupies a place of pride amongst the premier technical institutes of the western region of India. Established in 1983, financed and run by Bansilal Ramnath Agrawal Charitable Trust, it is affiliated to Savitribai Phule Pune University. The institute runs 9 Under Graduate, 8 Post Graduate & 6 Ph.D. programs which are affiliated to the university. The institution has been awarded ISO 9001-2008 certification by BSI, India & granted autonomous status since academic year 2008-2009. The institute has marched towards the pinnacle of glory through its remarkable achievement & laurels in the field of engineering education.

The **Department of Computer Engineering** established in the year 1991 offers UG programs in Computer Engineering along with PG program in Computer Science & Engineering with focus on conceptual understanding of core domain areas in Computing as well as enhanced programming skills disseminating their analytical abilities. It caters to the ever increasing needs of technical brilliance in all areas of computer engineering.

The **Department of Electronics Engineering** runs UG program caters to the ever increasing needs of technical brilliance in all allied areas of electronics engineering such as microelectronics, telecommunication, signal processing, embedded systems and power electronics.

## About the workshop

Research and developments in Data Analytics are driving advancements in many high-tech areas in the World including communications, entertainment, multimedia, medical and scientific field. Machine learning, at its core, is concerned with transforming data into actionable knowledge. This fact makes machine learning well-suited to the present-day era of "data science". The sessions in the workshop will motivate the UG, PG students, Faculties and Research scholars for carrying out their experimental work. Laboratory sessions / Case Studies of the workshop give all the participants a better insight of concepts. This workshop, in association with BCUD, SPPU and IEEE Computer Society, Pune Chapter covers machine learning techniques with practical exposure. It also aims to give participants a broad vision for their future research and development work in this field.

Day wise schedule of 5 days national level workshop

### Day 1:

- ◆ Introduction to Machine Learning
- ◆ Linear Regression
- ◆ Statistical Learning methods
- ◆ Similarity and Metric Learning
- ◆ Sparse Dictionary Learning

### Day 2:

- ◆ Classification algorithms
- ◆ K-NN, Naïve bayes classifiers
- ◆ Case Studies

### Day 3:

- ◆ Introduction to Data Analytics
- ◆ Association Rule Mining
- ◆ Support Vector Machine
- ◆ Decision Tree
- ◆ Case Studies

### Day 4:

- ◆ Supervised and Unsupervised Learning
- ◆ Clustering- K Means ,Hierarchical Clustering
- ◆ Inductive Logic programming
- ◆ Genetic Algorithms
- ◆ Case Studies

### Day 5:

- ◆ Reinforcement Learning
- ◆ Deep learning
- ◆ Multitask Learning

## Resource Persons:

- ◆ **Dr. Debdoot Sheet** (IIT Kharagpur)
- ◆ **Dr . Haridasa Acharya** (Pune University)
- ◆ **Dr. Aditya Abhyankar** (Dean, DOT SPPU, Pune )
- ◆ **Dr. Vahida Attar** (College of Engineering, Pune)
- ◆ **Dr. David Hanagal** (SPPU, Pune)
- ◆ **Dr. P J Kulkarni**( WIT, Sangli)
- ◆ **Dr. Parag Kulkarni** ( CalSoft, Pune)
- ◆ **Mr. S. S. Kadam** (CDAC)
- ◆ **Mr. Sameer Dixit** (PSPL)
- ◆ **Dr. Manasi Patwardhan** (Dean, R&D, VIT, Pune)

Along with other experts from IITs and renowned Universities.

## For registration contact:

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### Prof. Reshma Pise

Assistant Professor,  
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**Mob: 9922754865**

## Venue

Conference Hall,  
Department of Computer Engineering,  
Vishwakarma Institute of Technology,  
666, Upper Indira Nagar, Bibwewadi, Pune