

“Two Days Workshop on Data Science”

23rd and 24th Feb 2019

Registration Form

Name:.....
Institution:.....
Department:.....
Year:
Address:.....
Mobile:.....
E-mail ID:.....
Amount:.....
DD No/Transaction No.....
Date:.....

Registration Details

- ◆ Registration charges per participant: Rs 1600/- (GST included)
- ◆ Registration charges include course fees, certificate of participation and tea.
- ◆ Registration charges will be accepted in the form of online payment/DD/Cash along with duly filled registration form.
- ◆ Payment and registration should be done before **20th Feb 2019**
- ◆ Online payment receipt should be emailed to deepali.joshi@vit.edu or shital.dongre@vit.edu
Online payment should be done in following account

Account Name	VISHWAKARMA INSTITUTE OF TECHNOLOGY, Pune
Bene Bank Name	CENTRAL BANK OF INDIA
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Prof. (Dr.) Premanand P. Ghadekar
Head, Department of IT and MCA,
VIT, Pune

Workshop Coordinators

Prof. Deepali Joshi
Assistant Professor,
deepali.joshi@vit.edu
Mob: 9923009356

Prof. Shital Dongre
Assistant Professor,
shital.dongre@vit.edu
Mob:9545456650

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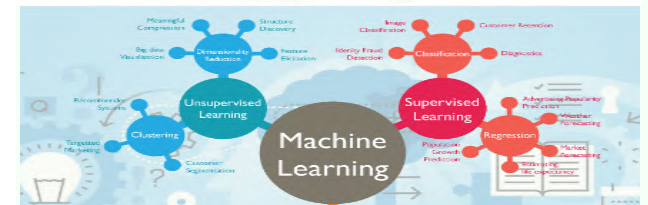
**Two Days
Training + Workshop
On**

**“Data Science: From Machine Learning
and Deep Learning Perspective”**

(23th and 24th Feb 2019)

Organized by

Department of IT and MCA



In Association with
Centre of Excellence in Data Science

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 Information Technology & MCA** runs UG program along with MCA caters to the ever increasing needs of technical brilliance in all allied areas of information technology such as Software testing and automation, image processing and data analytics.

About the workshop

Research and developments in Data Science are driving advancements in many high-tech areas in the World including communications, entertainment, multimedia, medical and scientific field. Data Science, at its core, is concerned with transforming data into actionable knowledge. This fact makes Data Science well-suited to the present-day era where proper analysis of data can result in change the way the world operates. 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 Center of Excellence in Data Science covers Data Science techniques with practical exposure. It also aims to give participants a broad vision for their future research and development work in this field.

About the Speaker



Dr Manasi Patwardhan, PhD, Scientist, TRDDC, Pune. Dr Manasi has close to 16+ years of teaching as well as research experience in Data Science and business analytics where she solves real world problems. She holds a PhD from the University of Tulsa, USA and a B.Tech from University of Pune. She bags a lot of research publications in this area. In addition ,she has guided 15+ M.Tech students and is very competent guide to her 5+ Ph.D. Students.

For registration contact:

Prof. Shital Dongre

Assistant Professor, shital.dongre@vit.edu

Mob: 9545456650

Prof. Deepali Joshi

Assistant Professor, deepali.joshi@vit.edu

Mob:9923009356

Course Contents

DATA SCIENCE :From Machine Learning Perspective

DAY 1 (Introduction of data science)

SESSION 1(Theory: 9.30 am to 1 pm)

1. Overview of Data Science
2. Supervised Vs. Unsupervised learning
3. Principal Component Analysis
4. K-means clustering algorithm
- 5.Support Vector Machine algorithm
- 6.Decision Tree algorithm
- 7.K-Nearest Neighbor algorithm

SESSION 2(Practical: 2 pm to 5 pm)

Practical Hands on Session for implementing these algorithms in Python

DAY 2(Machine Learning Perspective)

SESSION 1(Theory: 9.30 am to 1pm)

1. Linear Regression
2. Logistic Regression
3. Neural Network
4. Deep Learning Fundamentals
5. Convolutional Neural Networks

SESSION 2(Practical: 2 pm to 5 pm)

Practical Hands on Session for implementing these algorithms with case studies in Python

PREREQUISITES

- 1.Elementary programming and use of command line
- 2.Basic probability and linear algebra

Venue

Conference Hall,
1st Building ,Third Floor
VIT,Pune