



Sri Dayananda Sagar  
Founder, MGVP Trust



Dr.D.Hemachandra Sagar  
Chairman, DSI



Dr.D.Premachandra Sagar  
VC, & CEO, DSI

*Five day faculty development programme  
On*

## **MACHINE LEARNING USING PYTHON**

### **FDP Resource Person**

**Mr. Sudheendra Rao ,**  
Director ,  
Datalore Labs Pvt Ltd,  
Bangalore.

### **Coordinators**

**Dr.M.Vinoth Kumar.M.E.,Ph.D.**  
**Prof. Karthik S.A., M.Tech.,(Ph.D)**  
Cell:97437 03599

Mail id: [karthiksa1990@gmail.com](mailto:karthiksa1990@gmail.com)

**Prof.Anusha Preetham,M.Tech.,(Ph.D)**  
Cell: 98868 69490

Mail id: [anushapreetham@dsatm.edu.in](mailto:anushapreetham@dsatm.edu.in)

### **MACHINE LEARNING**

Machine learning is a subfield of artificial intelligence (AI). The goal of machine learning generally is to understand the structure of data and fit that data into models that can be understood and utilized by people.

Machine learning is a continuously developing field. Because of this, there are some considerations to keep in mind as you work with machine learning methodologies, or analyze the impact of machine learning processes.

In this FDP, we'll deal with common machine learning methods of supervised and unsupervised learning, and common algorithmic approaches in machine learning, including the k-nearest neighbor algorithm, decision tree learning.

#### **Topics Covered**

- *Introduction to Machine learning, concept learning.*
- *Decision tree learning and ID3 algorithm*
- *ANN Introduction Neural Network representation*
- *Bayesian Learning, ML and LS error hypothesis, Back propagation algorithm, naive Bayesian classifier*
- *Evaluating Hypothesis, Instance based learning and k-means algorithm*
- *Hands on sessions using Python*

## **DAYANANDA SAGAR ACADEMY OF TECHNOLOGY & MANAGEMENT**

OPP. ART OF LIVING, UDAYAPURA,  
KANAKAPURA ROAD, BENGALURU-560 082  
080-28432909, 28432999: [www.dsatm.edu.in](http://www.dsatm.edu.in)



**IEEE**  
Bangalore Section

### **FIVE DAY FACULTY DEVELOPMENT PROGRAMME On MACHINE LEARNING USING PYTHON**

**In association with VTU, Belagavi &  
IEEE Bangalore Section**

*July 16<sup>th</sup> – 20<sup>th</sup> 2018*

**Organized by**

**Department of ISE &  
IEEE Student Branch, DSATM**



### ABOUT THE FACULTY DEVELOPMENT PROGRAM

We, at The Department of Information Science & Engineering of Dayananda Sagar Academy of Technology & Management are planning to organize Five Days Faculty Development Program regarding technical teaching methodologies in the new subject introduced in 7<sup>th</sup> semester, "Machine Learning -15CS73". The subject is being introduced for the first time under CBCS with varied topics included. Hence it is essential to have a detailed idea about procedure to teach the subject effectively.

### ABOUT DAYANANDA SAGAR ACADEMY OF TECHNOLOGY & MANAGEMENT - DSATM

One of the premier institutions of the country, DSI was established by MGVP Trust in 1963 by Sri Dayananda Sagar the founder. The institutions are now being nurtured by Dr. D Hemachandra Sagar and Dr. D. Premachandra Sagar the two eminent sons of the founder.

DSATM was established in 2011 with Six branches of engineering and B.Arch, MBA, MCA programs. This focuses on Research and Development activities helping the Faculties to undertake research work leading to M.Sc in Engineering and Doctor of Philosophy (Ph.D). The Departments are undertaking external funded research, consultancy projects & works in their respective disciplines.

### ABOUT DATALORE LABS

Datalore Labs combines cutting edge Artificial Intelligence with a diverse pool of elite data science talent to help organizations with Engineer Better AI Products, Make Optimal Decisions, Build-Agile, Data Literate Workforces, Develop and Analyze Critical Performance Metrics and Identify Market Patterns and Forecast Industry Trends. Datalore Labs Empathize the needs of individuals and organizations and provide them with innovative solutions and Scrutinizing the horizon of the business challenge in line with the functional structure of the organization for effective outcomes to Promote the growth of internal and external stakeholders to attain collective prosperity.

### COURSE OBJECTIVES

- Define machine learning and problems relevant to machine learning.
- Apply neural networks, Bayes classifier and k nearest neighbor, for problems appear in machine learning
- Perform statistical analysis of machine learning techniques.

### DSI ORGANIZING COMMITTEE

#### Patrons:

Dr. D. Hemachandra Sagar, Chairman DSI, Chancellor DSU  
Dr. D. Premachandra Sagar, Vice Chairman & CEO, DSI  
Dr.Karisiddappa, Vice chancellor, VTU, Belagavi  
Dr.H.N. Jagannatha Reddy, Registrar, VTU, Belagavi  
Dr.Sathish Annigeri, Registrar (Evaluation), VTU, Belagavi  
Sri. Galiswamy, Secretary, DSI

#### Conveners:

Dr. B.R.Lakshmikantha, Principal, DSATM  
Dr.K.A.Sumithra Devi, Dean Academics & HOD-ISE, DSATM.  
Dr.C.Nandini, Vice-Principal & HOD-CSE, DSATM.

**Registration fee:** Rs 3500/- per participant  
IEEE Members 25% discount in registration fee  
Registration is restricted to 30 participants.

D.D to be drawn in favour of "**DSATM Conference and Workshop**", payable at Bengaluru.

#### RTGS Details:

Account Name: DSATM Conference & Workshop  
Account Number: 64170205495  
IFSC Code: SBIN0040871  
Bank Name: SBI, Art of Living Branch

**Registration Last Date: On or before 12<sup>th</sup> July, 2018.**

**Reference material will be given to registered participants.**

#### Address for Communication

The Coordinator,  
Department of Information Science and Engineering,  
Dayananda Sagar Academy of Technology and Management,  
Kanakapura road, Udayapura, Opp. Art of Living  
Bangalore – 560082.

## DAYANANDA SAGAR ACADEMY OF TECHNOLOGY & MANAGEMENT

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)  
OPP. ART OF LIVING, UDAYAPURA,  
KANAKAPURA ROAD, BENGALURU-560 082

### Department of Information Science & Engineering REGISTRATION FORM

**FIVE DAY FACULTY DEVELOPMENT PROGRAM  
ON MACHINE LEARNING USING PYTHON**

July 16th to 20th, 2018

Name: .....

Institution: .....

Designation: .....

Address for Communication:  
.....  
.....

E-mail Id.....

Mobile No.....

D.D. No.....

Date:.....Amount:.....

Bank name.....

DECLARATION:

I hereby declare that the details furnished above are true.

Signature of Applicant

Date

The institution here by agrees to depute the applicant to attend the FDP, on July, 16th to 20<sup>th</sup> July 2018.

Signature of Head of the Department/ Institution