



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

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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 users.

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 (based on VTU syllabus)

- *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 for laboratory exercises.*

**DAYANANDA SAGAR ACADEMY OF
TECHNOLOGY & MANAGEMENT**

(Affiliated to VTU , Belagavi & Approved by AICTE, New Delhi)

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KANAKAPURA ROAD, BENGALURU-560 082
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IEEE
Bangalore Section

FIVE DAY FACULTY DEVELOPMENT PROGRAMME
On
MACHINE LEARNING USING PYTHON

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

July 16th – 20th 2018

Organized by

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



ABOUT THE FACULTY DEVELOPMENT PROGRAM

The Department of Information Science & Engineering of Dayananda Sagar Academy of Technology & Management has planned to organize Five Days Faculty Development Program regarding technical teaching methodologies in the new subject introduced in 7th 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, along with laboratory exercises.

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, with state of art infrastructure and skilled, experienced staff. 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.

ORGANIZING COMMITTEE

Patrons:

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

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 12th July, 2018.

Reference material will be given to registered participants.

Address for Communication

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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:
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.....

E-mail Id.....

Mobile No.....

D.D.No.....Date/Amt.....

RTGS Details.....

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, from 16th to 20th July 2018.

Signature of Head of the Department/ Institution _____