

**e-Workshop on  
MATHEMATICAL AND STATISTICAL  
METHODS FOR MACHINE LEARNING  
(MSML-2020)**

**REGISTRATION FORM**

(Last date for submission of the Registration Form is  
November 5, 2020)

Name: \_\_\_\_\_  
Designation: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Field of Specialization: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
\_\_\_\_\_

Mobile No: \_\_\_\_\_  
Email: \_\_\_\_\_  
Amount: \_\_\_\_\_  
SBI Collect: No: \_\_\_\_\_  
Date \_\_\_\_\_  
Bank Details: \_\_\_\_\_

Date: \_\_\_\_\_ Place: \_\_\_\_\_

Signature of the Participant \_\_\_\_\_

Signature and Name of Supervisor/HoD/Principal/Director  
along with institution seal \_\_\_\_\_

**NOTE:** Note: The scanned copy of the registration form  
along with scanned copy of Online SBI collect  
payment slip must be sent via mail to  
nidhi@nith.ac.in

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**Dr. Pawan Kumar Sharma**

Coordinators  
**Dr. Nidhi Gupta**  
**Dr. Rifaqat Ali**

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**Dr. Nidhi Gupta**

Organizing Committee  
**All faculty and staff members of Department of  
Mathematics and Scientific Computing,  
NIT Hamirpur**

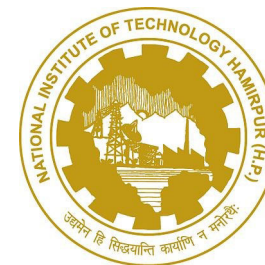
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**e - Workshop  
on**

**Mathematical and  
Statistical Methods for  
Machine Learning  
(MSML-2020)**



**7th Nov–11th Nov, 2020**



**DEPARTMENT OF MATHEMATICS  
& SCIENTIFIC COMPUTING  
NATIONAL INSTITUTE OF  
TECHNOLOGY  
HAMIRPUR 177005 (H.P.)**

**BACKGROUND:** Machine learning and Artificial Intelligence has already made remarkable effect on technological developments in this century. It plays a key role in shaping the software as well as hardware products, systems, and innovations from heavy equipment and industry to avionics and healthcare applications. This emerging research field has accompanied developments in the science and engineering practices for centuries. The novelty holds in interpreting the information hidden in the data and its applicability. Therefore, one should have the knowledge of using the right programming tools and utilizing the trending technologies.

**OBJECTIVES:** The programming language plays an important role in the engineering, management, humanities and all allied sciences. Recent advancement in application oriented sciences are compelling the researchers and users for learning and understanding the such high level language for modeling and analysis of the data arising from their experiments. Realizing the need of the time, the present e-workshop is aimed to give lectures and training on the machine learning and artificial intelligence techniques. The participants will be exposed to the basics and fundamentals behind the algorithms. They will also be trained and taught, how such algorithms works efficiently on large dataset using Python .

**COURSE CONTENTS:** Introduction and need for programming language, machine learning, artificial intelligence, Model aggregation, Time Series Models, Classification, Linear Regression, Genetic Algorithms, Intent Classification using LSTM, Semantic Segmentation, Programming on real-time examples.

**WHO SHOULD ATTEND:** Science and Engineering Students, Researchers, Teachers, Industry and Practicing Engineers, Scientists in R&D Labs.

**REGISTRATON FEES:** Registration is compulsory for all the delegates.

**Participants from Academia/R&D Labs: Rs. 500/-**

**Participants from Industry: Rs. 1,000/-**

**External Students: Rs. 200/-**

**Last Date of Registration:** 5th November, 2020

**Registration Link:**

<https://forms.gle/1q42xUgv9yj6CMg99>

**Payment Link:**

<https://www.onlinesbi.com/sbicollect/icollecthome.htm>

**NO. OF PARTICIPANTS:** A maximum of 50 participants will be considered for this training programme. Application will be accepted on first-cum-first serve basis.

**VENUE:** The e-workshop will be held through **Google Meet**.

**ABOUT HAMIRPUR:** Hamirpur is surrounded by various famous temples of historical importance such as Jwalaji, Chintapurni, Chamunda Devi, Deoth Sidh, Baijnath etc. Dharamshala, McLeodganj a hill resort is about 80 kms from Hamirpur. During March the weather is pleasant and temperature is about 20<sup>0</sup>C.

**CERTIFICATE:** e-Certificate will be given to the participants having at least 80% attendance after successful completion of the course.

**RESOURCE PERSONS:** Experts from premier institutes like IITs, NITs, and IIITs will deliver lectures, followed by interactive hands-on sessions by Industry person on the subjects.

**DEPARTMENT OF MATHEMATICS & SCIENTIFIC COMPUTING:** The department of Mathematics & Scientific Computing came in to existence from August 1, 2009. Earlier, this department was the part of Department of Applied Sciences & Humanities, which came in to existence in 1986. The department is supported by potential and devoted faculty members. The research potential of faculties of this department is witnessed through published books, research papers in journals of both national and international repute and sponsored projects funded by various funding agencies such as CSIR, DST, UGC and MHRD. Also, the faculty has the credit of successful guidance of Ph.D. scholars in addition to imparting teaching to B.Tech./B.Arch., M.Tech. & M.Sc. classes of different disciplines. The department is equipped with ultra-modern infrastructural, computing and R&D facilities.

**NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR:** The institute came into existence on August 7, 1986 as Regional Engineering College Hamirpur in Hamirpur, Himachal Pradesh, India. It was a joint enterprise of the Government of India and the Government of Himachal Pradesh. On June 26, 2002, the institute was awarded the status of deemed university and upgraded into a National Institute of Technology. As a result of this transition the institute came under the sole purview of the Government of India. It was awarded the status of Institute of National Importance by an Act of Parliament along with other NITs and IITs. NIT Hamirpur has been ranked as best NIT in terms of infrastructure by the World Bank in 2007. The Institute provide Undergraduate, Postgraduate and Doctorate Education in Engineering, Sciences & Humanities; fostering the spirit of national integration among the students, a close interaction with industry and a strong emphasis on research, both basic and applied. For more detail please visit: <http://www.nith.ac.in>

**Note:** Application submitted through Google Form along with SBI collect receipt generated from online payment, must reach the coordinators on or before 5 November, 2020. To pay through SBI collect, select Payment Category “Workshop/STC/FDP/Conference”.

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