



PRESS RELEASE

IIT Mandi to host Workshop on Deep Learning for Executives and Working Professionals

Professionals who are willing to work in the area of Artificial Intelligence/ Machine Learning (AI/ML) can join this 6 days weekend workshop organised by IIT Mandi iHub and HCI Foundation.

MANDI, 21st June 2021: Indian Institute of Technology (IIT) Mandi, in conjunction with IIT Mandi iHub and HCI Foundation (iHub), is hosting a 6-day weekend workshop on Deep Learning Crash Course (ADLCC 2021) for Executives and Working professionals between 3rd July 2021 and 18th July 2021 (6 days, over 3 weekends). Organised by IIT Mandi iHub and HCI Foundation jointly, this workshop will cover extensive theory sessions from 9:00 am to 1:00 pm and lab sessions from 2:00 pm to 6:00 pm scheduled on every weekend. An assessment will be done at the end of the workshop, and based on this assessment, certificates will be provided to participants.

Speaking about the workshop, Dr. Aditya Nigam, Workshop Coordinator and Assistant Professor, School of Computing and Electrical Engineering, IIT Mandi, said, "This workshop will be the key to enter the mystic world of AI/ML. Extensive learning has been planned through comprehensive sessions organized by various experts. Most importantly the specially designed hand-on sessions will be a boon to completely novice learners. We hope that this workshop will effectively democratize AI/ML Learning."

Due to the recent drift of technology and enhanced computation power this new paradigm of deep learning based architectures has been extensively explored. Different communities have exploited these architectures to solve almost all types of computer vision, image processing, and other problems. Algorithms have to be implemented over Graphic Processing Unit (GPU) enabled systems to be optimized over very high dimensional parametric space. Recently, a huge amount of work has been presented in reputed International conferences to exploit the power of Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN), Autoencoders, and other



related deep learning tools to solve problems in the domains of Computer Vision, Image Processing, Speech Processing, and Natural Language Processing (NLP) among others.

Some of the key points to be covered in this workshop include:

- Basics of Machine learning & Neural Networks
- Convolutional Neural Networks
- Object Localisation and Detection
- Autoencoders and Variational AutoEncoder
- Generative Adversarial Networks
- Recurrent Neural Network and Long Short-Term Memory, Siamese Network
- Transformer Network

Highlighting the need of Deep Learning knowledge for Executives and Working Professionals, Dr. Varun Dutt, Key speaker at ADLCC 2021, and Associate Professor, School of Computing and Electrical Engineering, IIT Mandi, said, “This workshop is the first of its kind sponsored by the iHub and IIT Mandi and the entire workshop series includes 6 such workshop events in 2021 in total. The current workshop would provide students, academics, and industry personnel hands-on sessions on AI/ML topics that span a number of domains, including the human-computer interaction area.”

Key speakers from the workshop include:

- Dr. Aditya Nigam - Indian Institute of Technology Mandi
- Dr. Varun Dutt - Indian Institute of Technology Mandi
- Dr. Arnav Bhavsar - Indian Institute of Technology Mandi
- Dr. Dileep A.D. - Indian Institute of Technology Mandi
- Dr. Chetan Arora - Indian Institute of Technology Delhi
- Dr. Kamlesh Tiwari - Birla Institute of Technology and Science (BITS), Pilani

Interested participants can register through the following webpage: <https://www.iitmandi.ac.in/ADLCC2021/>. The workshop will have a selected batch of participants and the applications will be shortlisted on a first come - first serve basis. This workshop will cover state of the art AI/ML techniques in detail with extensive hands-on tutorial sessions for the participants. The workshop may pave the way for a research internship opportunity at the iHub and IIT Mandi.



###

About IIT Mandi

Since the first batch of 97 students joined in July 2009, IIT Mandi has grown to currently host 125 faculty and 1,833 students who are enrolled in various programmes of studies in undergraduate, postgraduate and research programmes, and 1516 alumni. IIT Mandi is a fully residential campus with 1.4 lakh sq. m. buildings completed. It has a guest house with 88 rooms, a 750-seater Auditorium, campus school, sports complex and hospital.

IIT Mandi has four Academic Schools and three major Research Centers. The Schools are: School of Computing and Electrical Engineering, School of Basic Sciences, School of Engineering, and School of Humanities and Social Sciences. The Centers are: Advanced Materials Research Centre (AMRC; set up with an investment of Rs. 60 crores), Centre for Design and Fabrication of Electrical Devices (C4DFED; has Rs. 50 crores worth of fabrication tools), and BioX Centre (has acquired research equipment worth Rs. 15 crores). In 2017, the Department of Biotechnology, Government of India, selected IIT Mandi to lead the prestigious Rs. 10 crore FarmerZone® Project.

To cater to the growing and changing needs of the Indian industry and the aspirations of students, IIT Mandi has introduced 7 B.Tech., 7 M.Tech., 5 M.Sc., 4 Ph.D., 1 I-Ph.D and 1 M.A programmes in the past 10 years. The unique, project-oriented B.Tech. curriculum is centred around its 4-year long Design and Innovation stream. From August 2019, IIT Mandi started 3 new and unique B. Tech. programmes in Data Science and Engineering, Engineering Physics, and Dual Degree in Bioengineering.

Since the inception of the Institute, IIT Mandi faculty have been involved in over 275 Research and Development (R&D) projects worth more than Rs. 120 crore. In the past 10 years, the Institute has signed a Memorandum of Understanding (MoU) with 11 international and 12 national universities.

IIT Mandi Catalyst, the first Technology Business Incubator in Himachal Pradesh, has helped over 75 startups since 2017 and is changing both the industry profile and entrepreneurial mindset in the state. So far, Catalyst has secured external funding of Rs. 24 crores from various funding agencies. Enabling Women of Kamand Valley (EWOK) is another innovative programme run by IIT Mandi, which focuses on imparting skills training to rural women to start village-scale businesses.

Recently, IIT Mandi set up the IIT Mandi iHub and HCI Foundation (iHub; a section-8 company) on its campus at Kamand with significant funding of INR 110 crores from the Department of Science and Technology (DST), Government of India. The iHub is planned to fuel research and



technology development, skill development, startup and innovation, and collaborations in the HCI and allied AI/ML areas in India. The iHub and its activities were inaugurated by the honorable Chief Minister of Himachal Pradesh, Shri Jai Ram Thakur, on IIT Mandi's 12th Foundation Day on 24th February 2021.

IIT Mandi has been ranked no. 31 in the Engineering Institutions Category in the [India Rankings 2020](#) released by National Institutional Ranking Framework, Ministry of Education, Govt. of India. Apart from this, IIT Mandi is the only second-generation IIT to be featured at rank no. 7 in the Atal Ranking of Institutions on Innovation Achievements of the Innovation Cell, Ministry of Education, Govt. of India.

Twitter: [@iit_mandi](#)

Facebook: [IIT Mandi](#)

Website: <https://www.iitmandi.ac.in>

Media contact for IIT Mandi:

IIT Mandi Media Cell: mediacell@iitmandi.ac.in / **Landline:** **01905267832**

Bhavani Giddu - Footprint Global Communications

Cell: 9999500262 / Email: bhavani.giddu@footprintglobal.com

Akhil Vaidya – Footprint Global Communications

Cell: 9882102818 / Email ID: akhil.vaidya@footprintglobal.com

Kajal Yadav - Footprint Global Communications

Cell: 88059 66194 / Email ID: kajal.yadav@footprintglobal.com