

Foundations of Machine Learning and Applications

An Online Executive Workshop

Workshop Dates: 28-29 Aug. 2021, 04-05 Sep. 2021

A 4-days weekend workshop titled “Foundations of Machine Learning and Applications” was successfully organized by the IIT Mandi iHub and HCI Foundation and the Indian Institute of Technology Mandi. The workshop targeted motivated executives and working professionals willing to work in the area of Machine Learning.

The workshop consisted of over 30 hours of extensive lecture and lab sessions on various foundational and cutting-edge topics such as Probability & Statistics, Linear Algebra and Information Measures, Optimization and Algorithms, Fully-Connected Layered Networks, Convolution Neural Networks, Autoencoders, Byzantine Quickest Change Detection, Generative Adversarial Networks, etc.

Dr. Satyajit Thakor was the coordinator and convenor of this workshop. International expert speakers were Dr. Shih-Chun Lin from NTU, Taiwan, and Dr. Stefano Rini from NYCU, Taiwan. The Indian expert speakers were Dr. Dileep A. D. and Dr. Arnav Bhavsar, Dr. Aditya Nigam, and Dr. Satyajit Thakor from the School of Computing and Electrical Engineering, IIT Mandi. The student volunteer for this online workshop was Ishtiyah Qureshi, IIT Mandi.

We had a diverse audience with 34 registered participants; 22 from India and 12 from overseas. Students and faculty members from different technical institutes such as NYCU (Taiwan), NTU (Taiwan), IITs, NITs, Indian state government institutes, and private Indian institutes participated in the workshop. We also had a participant from the industry, a software developer from TATA Consultancy Services.