3

- To provide extensive exposure **About the Institute** to various machine learning Indian algorithms and applications in various fields of science and Engineering.
- provide To a introduction to Learning Architecture.
- enhance the collaboration among from participants and institutes provide platform for sharing endeavours.
- persons and participants.

The topic "machine learning" has Cloud captured the attention of many scientists Intelligence, and engineers across the globe working Parallel in various disciplines due to its inherent Programmimg applications and power in making the accurate. machine accuracy. Many well-known systems are Data Science powered bv machine algorithms. Machine learning becomes inevitable when dealing with big data

About the Department from various applications. As the Department of Computer Science and Many systems require offers a B.Tech precision in the analysis so as to make Computer Science and Engineering and appropriate decisions circumstances. Therefore, the field of & various application domains. highly course relevant world. The course approximately 10 hours of theoretical lectures and 4 hours of practical sessions to give an overview of the This five-day Faculty Development topic. The participants from various disciplines such as computer science, electronics communication, electrical engineering, and mathematics expected to participate in the workshop.

of Institute Information their Technology, Kottayam at Valavoor, Pala, Kerala is one among the IIITs that have been established theoretical "Institutions of National Importance" Machine by MHRD Govt. of India under the ambit of IIIT (PPP) Act 2017. IIIT research Kottayam campus is situated at various Valavoor, Pala, Kottayam - a picturous different location, spread over in 53 acres of a land - allotted by Govt. of Kerala in the their southern part of the state commonly improve the referred to as God's Own Country. The collaboration in future research institute offers 4 year B.Tech and B.Tech (Hons) program facilitate joint research specialized courses covering all major initiatives between the resource research domains of computer science and engineering, viz Data Science, Computing, Artificial Machine Learning, Computing, HPC. Languages, Informatics and so forth. The students analysis and diagnosis pretty simple and are admitted against the JoSAA/CSAB learning counselling against the JEE main rank algorithms ensure minimal manual list. In addition, Institute also offers intervention to the systems thereby Ph.D programs in CSE, ECE and reducing manual errors and improving Mathematics as well as MTech in AI & for the learning professionals.

amount of data increases, the manual Engineering is the only academic analysis becomes impossible and highly department operating in the institute. It Programme at required an Executive M.Tech programme in AI Data Science for working machine learning has been explored in professionals at its extension center at This Trivandrum. Ph.D. admission started in and 2017 at the institute and there are about contemporary in the current research 20 scholar currently pursuing their contains research degree.

## About the FDP

Programme on "Machine learning algorithms and applications" is targeted to provide an introductory overview of the theoretical aspects and scientific applications of the machine and deep learning concepts in the contemporary world. The objectives of the course are:



# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ATAL-AICTE SPONSORED

FIVE DAY ONLINE FACULTY **DEVELOPMENT PROGRAMME** (FDP)

> "MACHINE LEARNING ALGORITHMS AND APPLICATIONS"

> 4-8 NOVEMBER 2020

SUPPORTED BY:



The targeted audiences are faculty and Selection: research scholars of various institutes across the country. The lectures are organized in such a way that the topics will be presented to the audience so that evervone can comprehend appreciate the contents. Since it is intended for a group of the multidisciplinary audience, all topics will cover the basics needed to understand the concepts. Resource Test and evaluation persons from reputed institutes like NITs, CET, IIIT will deliver lectures regarding the topic. The practical provide a hands-on session will experience to the participants. Some of the algorithms presented during the theoretical sessions will demonstrated during the hands-on Attendance session. In a nutshell, the course will have a larger reach and higher impact on the research community working on Machine and deep learning applications in various fields of science and engineering. The participants will be equipped to handle such courses at Resource Persons: various other institutes to enlighten a larger group thereby spreading the knowledge and expertise shared by the experts of the course to a larger audience.

### **Targeted Participants**

Maximum number: 150 members from Institutes/ For any further clarification please Faculty colleges/ university departments who contact: are teaching UG/PG science engineering and a few research scholars. If the number of applicants exceeds the maximum number, then selection will be based on the specialization and Assistant Professor, research interest of the applicants.

### **Registration**

The participants will not be charged any biniaa@gmail.com fee to attend the FDP programmme. However, the selected candidates should register by filling and sending the scancopy of registration form in the format given in the last page of this brochure. The handouts and FDP materials will be distributed/circulated among participants.

For pre-registration please visit ATAL website. https://aicte-india.org/atal

The selected participants will intimated through email/ATALAccount. The meeting invitation mail will be sent to the registered email id. The FDP will be fully conducted online and the platform for the same will be communicated in due course.

5

There will be an evaluation test on the last day of the FDP to assess the depth of understanding of the FDP contents by the participants. The attendance in the test is mandatory to receive the participation certificate.

The participants are expected to attend all sessions without fail. Those who fail to secure 80% attendance in the sessions will not receive participation certificate.

Experienced faculty members from reputed academic institutes and experts from industry will handle the sessions. The list of experts will be updated soon. A detailed programme schedule will be informed in due course.

The **Coordinator** of the FDP:

Dr. Bini A. A., **Indian Institute of Information** Technology, (IIIT) Kottayam, Kerala. Email: bini@iiitkottayam.ac.in,