



## Faculty Development Program

**Academic Year:** 2021-22

**Name of Event:** Faculty Development Program

**Topic:** Biomedical Image Processing using AI

**Name of the Resource Persons:**

1. Dr. Arun Jamkar (Chief Guest) - Dr.Arun Jamkar, Former Vice-Chancellor, Maharashtra University of Health Science, Nashik
2. Dr. Vinayak Bharadi - Professor, FAMT, Ratnagiri
3. Dr. Sayali Gharge - Associate Professor, VESIT, Mumbai
4. Dr. Sudeep Thepade – Professor & BOS-IT Member (SPPU), PCCOE, Pune
5. Dr. Jyoti Surve - Associate. Professor, I<sup>2</sup>IT, Pune
6. Mr. Kalyan Kumar - Application Engineers, Pantech Solutions, Chennai
7. Dr. N.R.Shanker - Professor, AMSCOE, Chennai
8. Miss. Laxmi - Application Engineers, Pantech solutions, Chennai.
9. Dr. Manas Nag - Lead Engineer, AIRA, MATRIX, Mumbai
10. Dr. Swathi Purnima - M.D, PSIMS & RF, Vijayawada (Anatomy Professor)
11. Miss. Sameeksha TA - Exicom Tele-Systems, Bengaluru
12. Mr. Hari om Agarwal - Researcher and Technical Consultant, PhD, DTU Denmark.
13. Dr. M. Srinivas - AI, Medical Image Processing Consultant Comofi Medtech, Bangalore
14. Dr. Pratap Sanap - Associate Principal Data- Science, L&T Infotech, Pune

**Date & Time of the Event:** 25<sup>th</sup> to 30<sup>th</sup> October 2021 (10:00 AM- 4:00 PM)

**Targeted Audience:** Faculty, Research scholars and Industry Person

**Venue:** International Institute of Information Technology, Pune (Online Mode – Microsoft Teams)

**Coordinator:** Prof. Vishal Chaudhary

**Number of Participants:** 168

### Activity Description in Nutshell:

The Department of Information Technology of International Institute of Information Technology (I<sup>2</sup>IT) Pune has organized Faculty Development Program during 25<sup>th</sup> October 2021 to 30<sup>th</sup> October 2021 at 10:00 AM- 4:00 PM on the subject “Biomedical Image Processing using AI”.

The FDP was conducted through Online Mode on Microsoft Teams platform due to Covid-19 pandemic. Dr. Arun Jamkar (Former Vice-Chancellor, Maharashtra University of Health Science, Nashik) was present for the inaugural ceremony as a chief guest & Keynote Speakers. Dr. Vaishali Patil (Principal, I<sup>2</sup>IT, Pune) also address the gathering during the inaugural ceremony.

Total 168 participants have registered for the Faculty Development Program and gave good feedback for various topics related to Bio medical image processing. The various topics and techniques related to Bio medical image Processing like Bio medical image Processing using python and CNN, disease identification from images, Brain Tumour segmentation, Molecular imaging, Intricacies of Human anatomy with Imaging, Hands on Deep learning to Neuroimages, processing of Covid-19, skin disease, inverse problem in medical imaging, Machine Learning and AI in medical data analysis were covered in the Faculty Development Program.

### Event Photos:

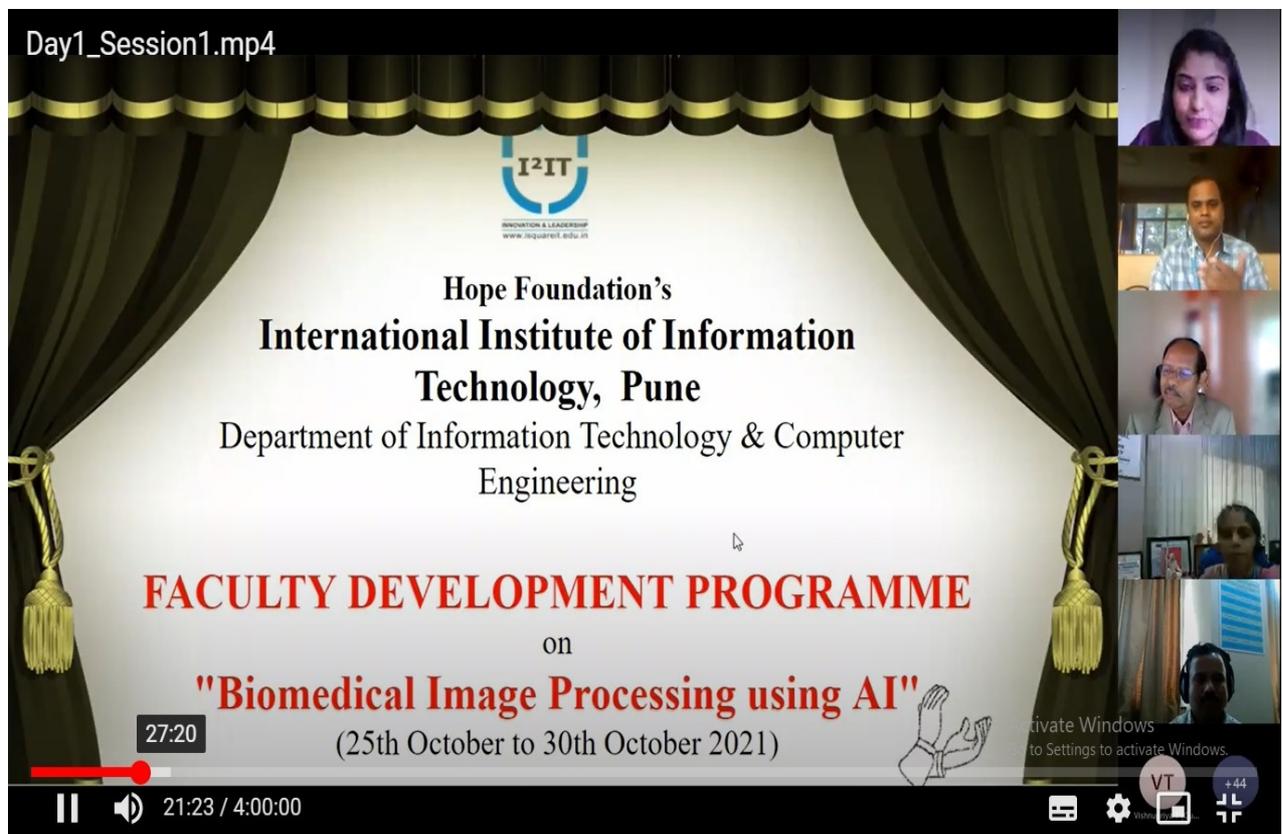


Photo 1: Welcome Address by Principal Dr. Vaishali Patil

Day1\_Session1.mp4

# WHAT IS AI AND ML?

- The term AI is applied when a device mimics cognitive functions, such as learning and problem solving

**Typical AI System**

```

    graph TD
      A((Apply)) --> B((Solve))
      B --> C((Formulate))
      C --> A
    
```

**ARTIFICIAL INTELLIGENCE**

More generally, AI refers to a field of computer science dedicated to the creation of systems performing tasks that usually require human intelligence, branching off into different technique

38:27 / 4:00:00

Photo 2: Address by Chief Guest Dr. Arun Jamkar

Drive

Melanoma Skin Cancer Identification with Amalgamated TSBTC and BTC Color Features using Ensemble of Machine Learning Algorithms

Dr. Sudeep D. Thepade

Supported by: Gaurav Ramnani, ShubhamMandhare

53:49

50:47 / 2:38:43

2:08.59 PM 15-11-2021

Photo 3: Address by Dr. Sudeep Thepade