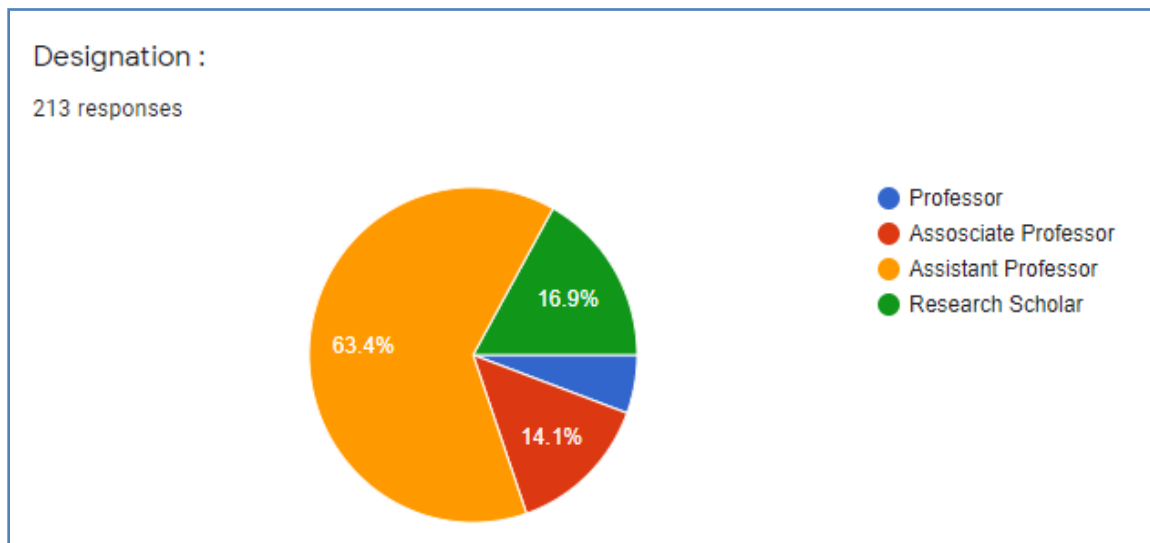


Report on One Week FDP

“Machine Learning based Applications”

31st May to 6th June 2021

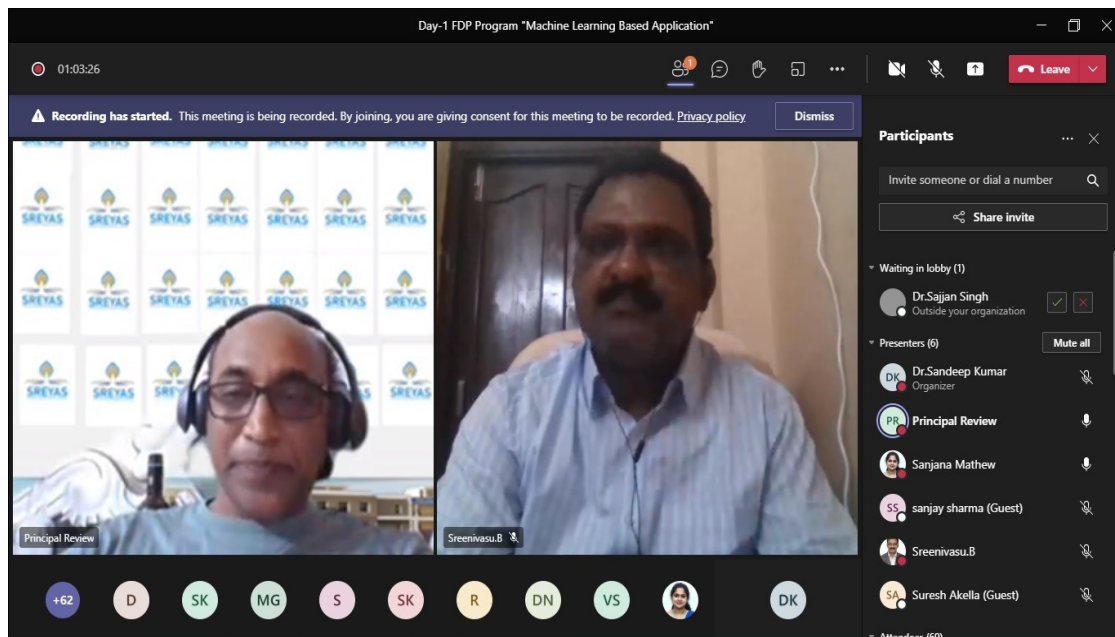
A One-Week Faculty development program (FDP-2021) was successfully conducted by Sreyas Institute of Engineering and Technology, on 31st May– 6th June 2021 by the Department of Electronics and Communication Engineering in virtual mode(Microsoft Teams Platform). The FDP program received an overwhelming response with more than 200 participants from around 102 colleges all over India. We had participants from NIT Hamirpur, Thapar University, PEC University, IIIT, Pune University, Lovely Professional University, JNTU Hyderabad, JNTU Anantapur, Osmania University to name a few.



Date wise brief Report for each of the Six days FDP program is given below with the feedback at the end:

Day 1: Inaugural Session on 31st March 2021

The program was inaugurated in the evening (4.00 pm) on 31st May 2021, with the Resource Person Dr. Sanjay Kumar, Assistant Professor, Dept. of Electrical Engineering, University of Shimla, along with our Principal, Head of Department, faculty members and participants. The Event Coordinators Dr. Sandeep Kumar (Associate Dean & Professor) and Co-ordinator Mrs. Sanjana Mathew (Assistant Professor), welcomed Dr. Sai Satyanaryana – Principal, and the Chief Guest Dr. Sanjay Kumar.



Inaugural Session

In presidential speech, Hon. Principal Dr. S. Sai Satyanarayana Reddy shared his views with the faculty participants that if faculty wants to develop themselves and their students, then attending such faculty development program would enhance their skills of teaching concepts practically. Sir further shared that it helps to improve the performance of faculty in teaching and highlighted the importance and objectives of organizing faculty development program. He briefed the participants about the subjects chosen for the FDP and highlighted the reasons and importance of the same.

In the welcome speech, Hon. Prof. B. Sreenivasu shared his views on faculty development. He further added that this program will provide special benefits to faculty members. The inauguration program ended with vote of thanks by Dr. Sandeep Kumar.

Day-1 FDP Program "Machine Learning Based Application"

01:15:05

Recording has started. This meeting is being recorded. By joining, you are giving consent for this meeting to be recorded. [Privacy policy](#)

Dismiss

Attendees (86) Mute all

Abhilasha (Guest)
advphp34
Akhilesh Ashok Tayade (G...
Amarjeet Kaur (Guest)
ANIL KUMAR G
Anish Srivastava
ashwanikumar Dr
bhagya (Guest)
BHARGAVI ARUN KULKA...
Bhupinder Yadav (Guest)
C PIANEENDRA
Deepak Rawat (Guest)

Machine Learning and its application in Renewable Energy

Presented By
Dr. Sanjay Sharma
Assistant Professor
IIT RRR, Raigarh
Email: sanjaysham2@gmail.com
Mob. 9418527048

Click to add notes

Dr.Sandeep Kumar, Sanjana Mathew, sanjay sharma (Guest)

Type here to search

ENG 4:17 PM
IN 5/31/2021

Day-1 FDP Program "Machine Learning Based Application"

01:16:22

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Participants

Invite someone or dial a number

Share invite

Presenters (6) Mute all

Sreenivasu.B
Dr.Sandeep Kumar
Principal Review
Sanjana Mathew
sanjay sharma (Guest)
Suresh Akella (Guest)

Attendees (84)

Abhilasha (Guest)
advphp34
Akhilesh Ashok Tayade (G...
Amarjeet Kaur (Guest)
ANIL KUMAR G
Anish Srivastava
ashwanikumar Dr
bhagya (Guest)
BHARGAVI ARUN KULKA...
Bhupinder Yadav (Guest)
C PIANEENDRA
Deepak Rawat (Guest)

AI/MC/DL

Artificial Intelligence
Machine Learning
Deep Learning

Click to add notes

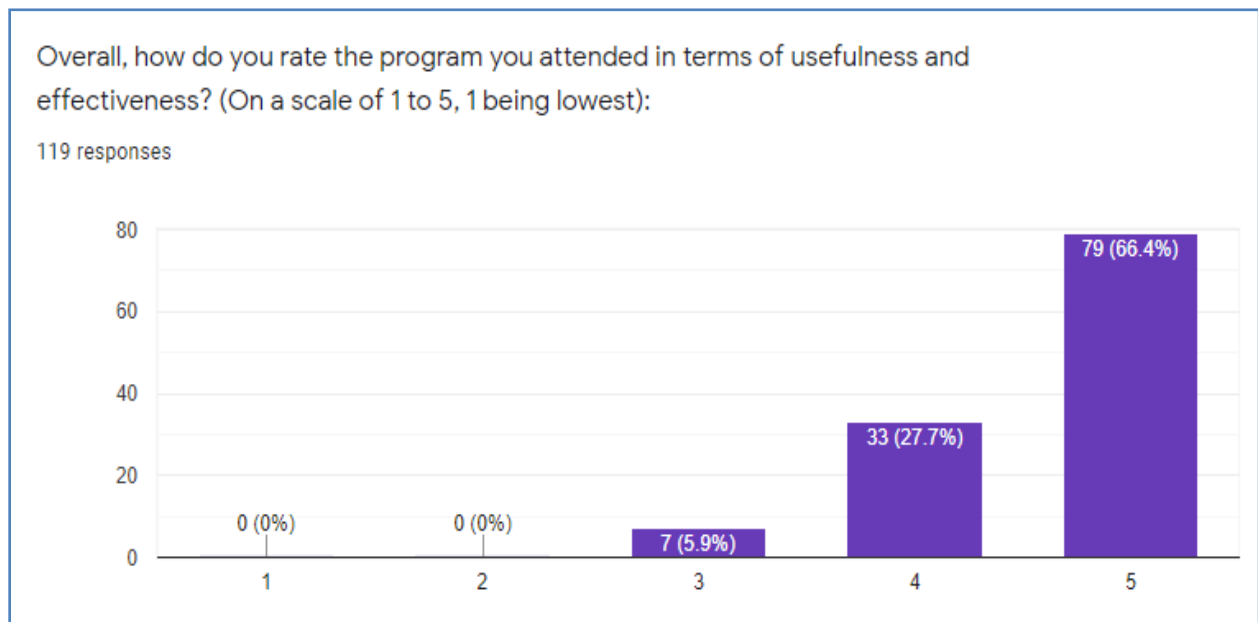
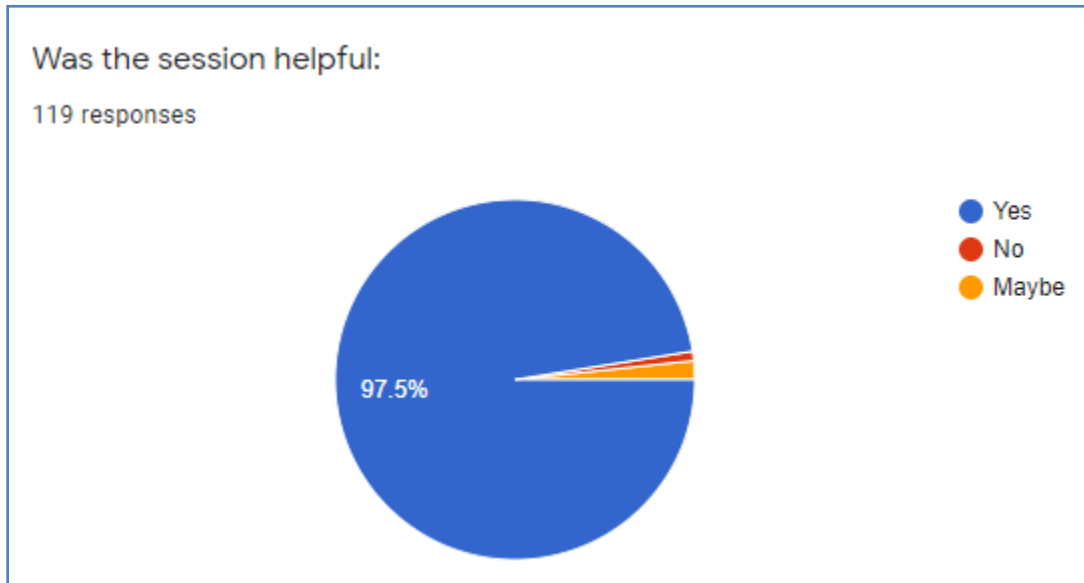
Dr.Sandeep Kumar, Sanjana Mathew, Principal Review, sanjay sharma (Guest)

Type here to search

ENG 4:18 PM
IN 5/31/2021

Day-1: Session Delivered by Dr. Sanjay Kumar (Resource Person)

Day-1 Feedback:



Day-1 Feedback of Dr. Sanjay Kumar (Resource Person)

Day 2: Session on 1st June 2021

The screenshot shows a Zoom meeting window titled "Day-2 FDP Program 'Machine Learning Based Application'". The meeting time is 01:18:34. A notification at the top states "Recording has started. This meeting is being recorded. By joining, you are giving consent for this meeting to be recorded. Privacy policy". The main content is a presentation slide titled "Robotics (Cont...)" with the following text:

- Pepper**
- Pepper is a talking humanoid robot that adapts its attitude based on how it perceives the mood of humans around it.
- The device detects emotional states like sadness, surprise, joy, and anger. It responds in a natural and appropriate fashion. Pepper uses multi-directional microphones to detect sounds.
- The clever machine analyzes the lexical field to assess tone of voice.
- This allows it to accurately understand emotional context. For vision, Pepper employs a combination of 2HD and 3D cameras to recognize shape of objects.

An image of the Pepper robot is shown on the right side of the slide. The Zoom interface includes a "Participants" list on the right with 5 presenters and 64 attendees. The bottom of the screen shows a taskbar with various application icons and the system clock at 4:24 PM on 6/1/2021.

The screenshot shows a Zoom meeting window titled "Day-2 FDP Program 'Machine Learning Based Application'". The meeting time is 01:29:04. A notification at the top states "Recording has started. This meeting is being recorded. By joining, you are giving consent for this meeting to be recorded. Privacy policy". The main content is a presentation slide titled "Voice Assistance Revolution" with a timeline diagram:

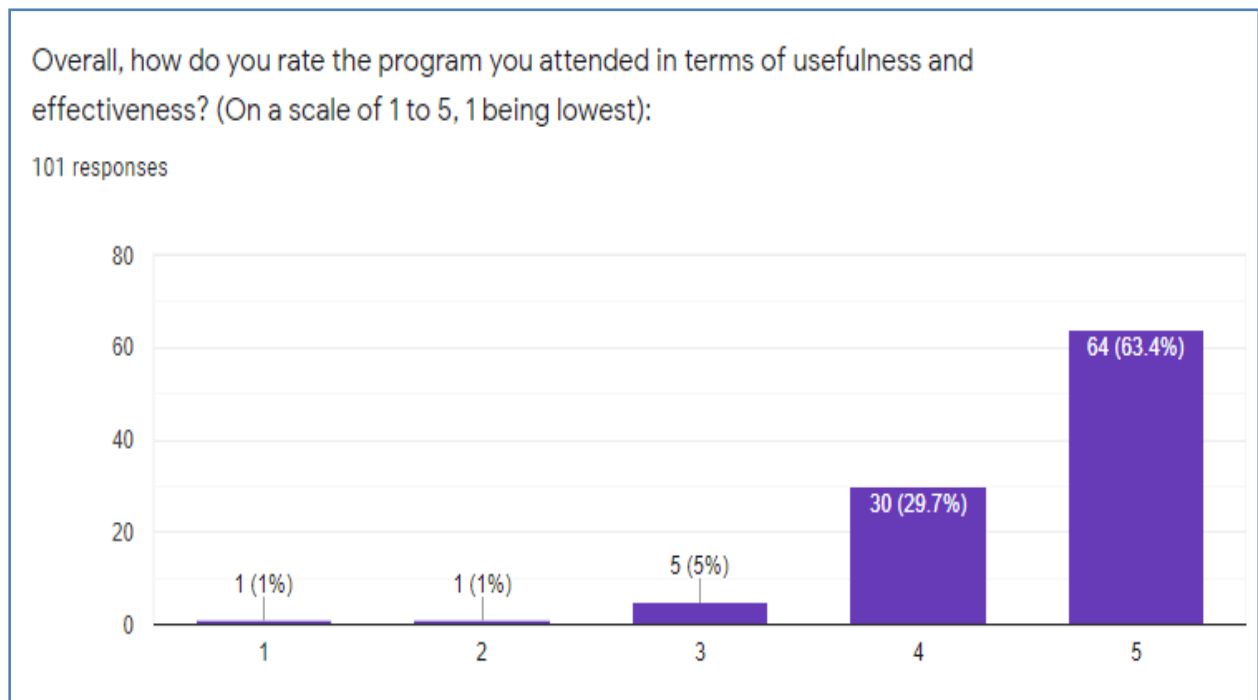
THE DECADE OF VOICE ASSISTANT REVOLUTION 2010 - 2019

- 2010: Siri is introduced as the first voice assistant.
- 2011: Amazon introduces Echo, the first smart speaker.
- 2012: Microsoft introduces Cortana, the first voice assistant on a smartphone.
- 2013: Apple introduces Siri on the iPhone 4S.
- 2014: Google introduces Google Now, the first voice assistant on an Android phone.
- 2015: Amazon introduces Alexa, the first voice assistant on a smart display.
- 2016: Microsoft introduces Cortana on the Windows 10 operating system.
- 2017: Apple introduces Siri on the Apple Watch.
- 2018: Google introduces Google Assistant on the Google Home smart speaker.
- 2019: Amazon introduces Alexa on the Amazon Echo Show smart display.

The Zoom interface includes a "Participants" list on the right with 5 presenters and 64 attendees. The bottom of the screen shows a taskbar with various application icons and the system clock at 4:34 PM on 6/1/2021.

Day-2: Session Delivered by Dr. Shashank Singh (Resource Person)

Day-2 Feedback:



Day-2: Feedback of Dr. Shashank Singh (Resource Person)

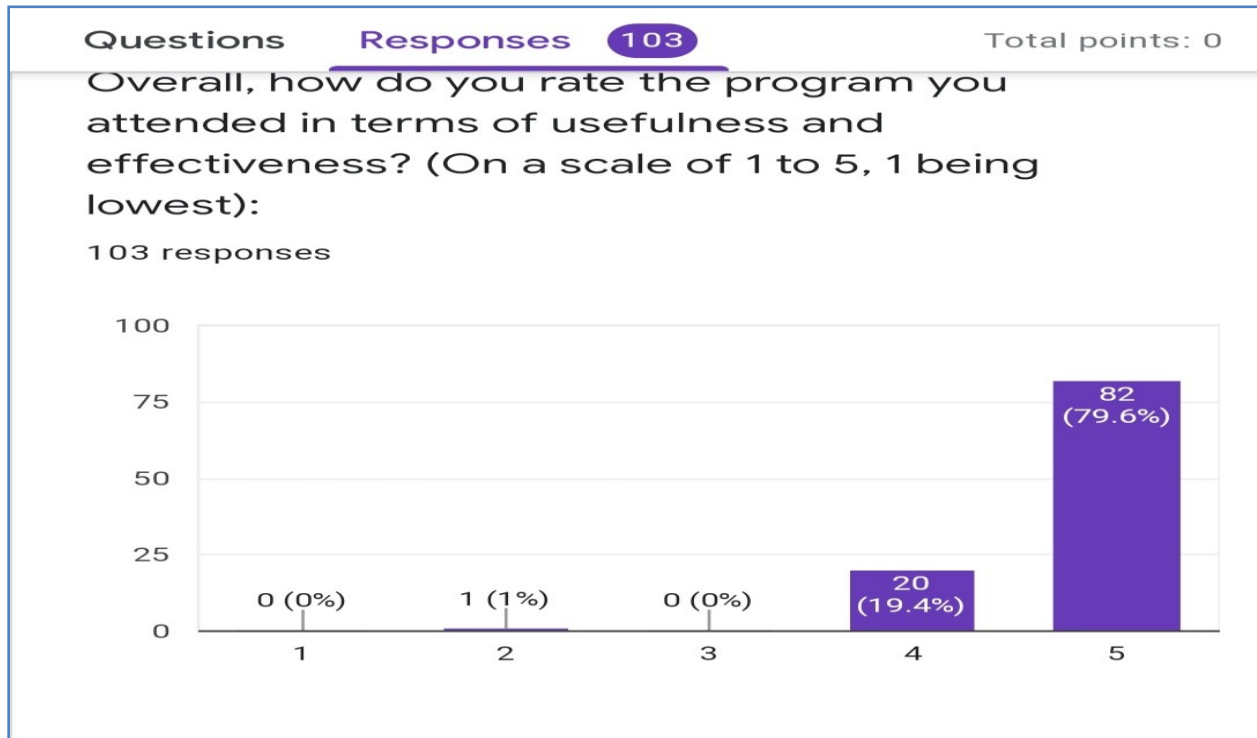
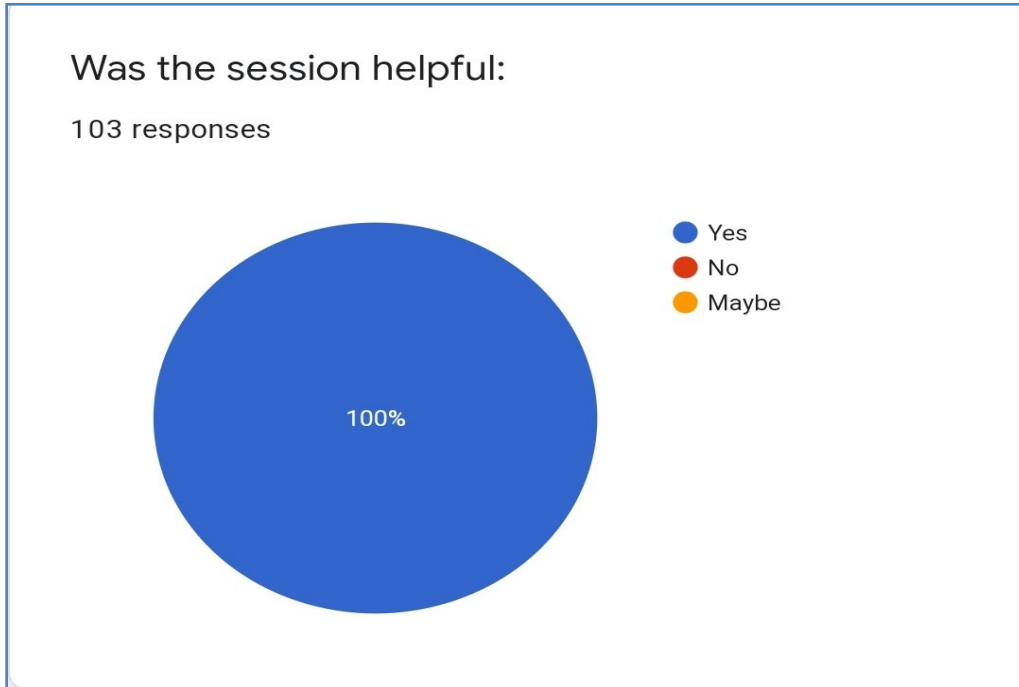
Day 3: Session on 2nd June 2021

The screenshot shows a Zoom meeting interface. The main content is a presentation slide titled "Introduction to Machine Learning". The slide text reads: "With the help of Machine Learning, we can develop intelligent systems that are capable of taking decisions on an autonomous basis." Below the text is a flow diagram: "Ordinary System" leads to "With AI", which leads to "Machine Learning". From "Machine Learning", arrows point to "Learns", "Predicts", and "Improves". The slide also features a "Cont...." header and a footer with the name "Dr. Sandeep Kumar" and the date "6/2/2021". The Zoom interface includes a "Participants" list on the right with 7 attendees and a bottom toolbar with various icons and a system tray showing "32°C Light rain".

The screenshot shows a Zoom meeting interface with a video player. The video player displays a presentation by Dr. Sandeep Kumar, featuring a woman at a podium with a "YOYO TV" logo. The presentation content includes logos for "WCIT", "NASSCOM ILF", and "amplify". The Zoom interface includes a "Participants" list on the right with 7 attendees and a bottom toolbar with various icons and a system tray showing "32°C Light rain".

Day-3: Session Delivered by Dr. Sandeep Kumar (Resource Person)

Day-3 Feedback:



Day-3: Feedback of Dr. Sandeep Kumar (Resource Person)

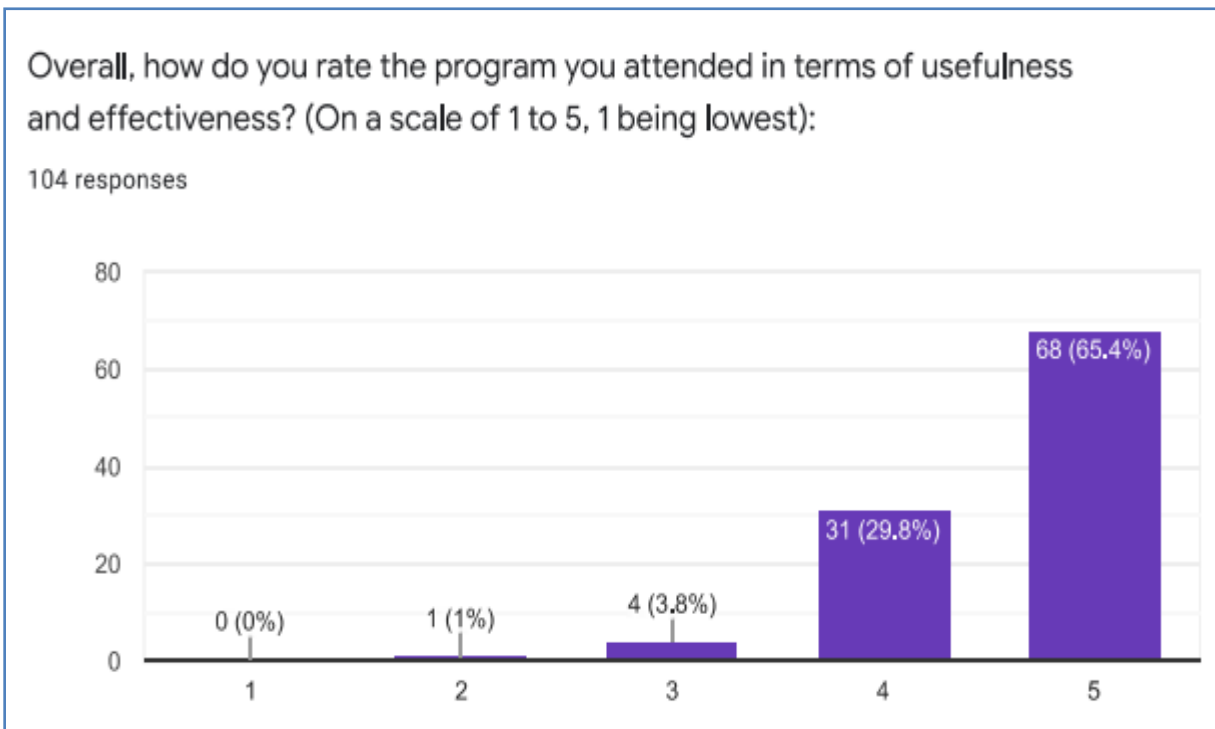
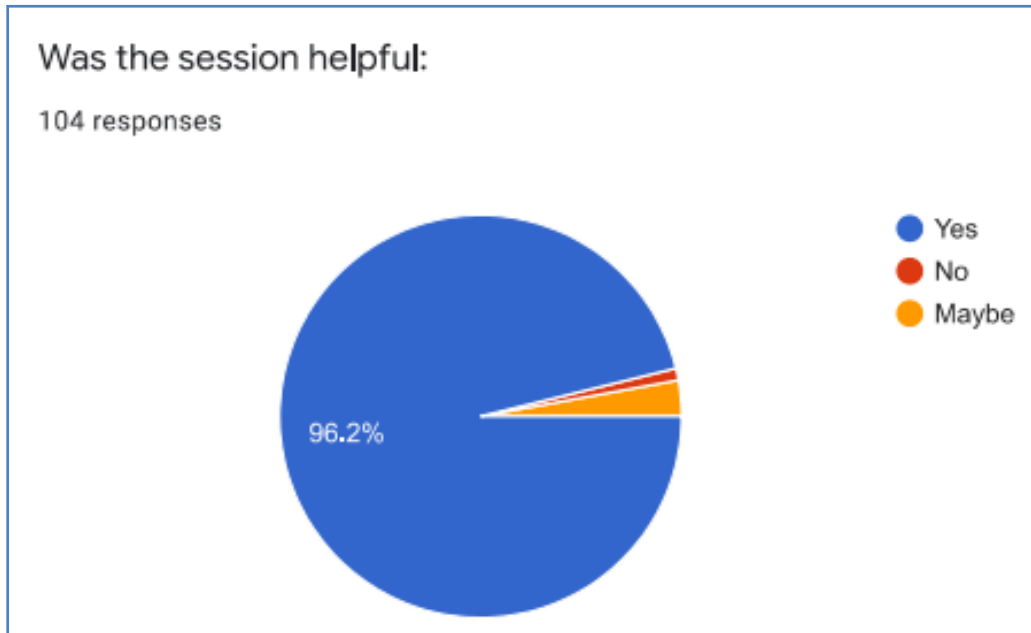
Day 4: Session on 3rd June 2021

The screenshot shows a Zoom meeting interface. The main content is a presentation slide with the title "Machine Learning-Based Applications, Sensors and Challenges". The slide features a tree diagram with various icons representing different applications and sensors, including a satellite, a car, and a medical monitor. Below the slide, the name "Dr. Dinesh Kumar, Scientist 'E', DRDO" is visible. The Zoom interface includes a top bar with "Request control", "Leave", and "Recording has started" notifications. A participants list on the right shows several attendees, including Sreenivasu.B, Dr. Dinesh Kumar, TBRL (DRDO), Dr. Sandeep Kumar, Principal, Sanjana Mathew, Suresh Akella (Guest), and Ajay Deep (Guest). The bottom of the screen shows the Windows taskbar with various application icons and the system tray.

The screenshot shows a Zoom meeting interface. The main content is a presentation slide with the title "Machine Learning (ML) and IoT can Work Together to Improve Lives Defence and space sectors?". The slide contains a bulleted list of points discussing the application of ML and IoT in defence and space sectors, specifically mentioning NASA's Exo-Brake devices and the use of hardened sensors. Below the slide, the name "Dr. Dinesh Kumar, Scientist 'E', DRDO" is visible. The Zoom interface includes a top bar with "Request control", "Leave", and "Recording has started" notifications. A participants list on the right shows several attendees, including Dr. Sandeep Kumar, Dr. Dinesh Kumar, TBRL (DRDO), Principal, Sanjana Mathew, Sreenivasu.B, and Suresh Akella (Guest). The bottom of the screen shows the Windows taskbar with various application icons and the system tray.

Day-4: Session Delivered by Dr. Dinesh Kumar (Resource Person)

Day-4 Feedback:



Day-4: Feedback of Dr. Dinesh Kumar (Resource Person)

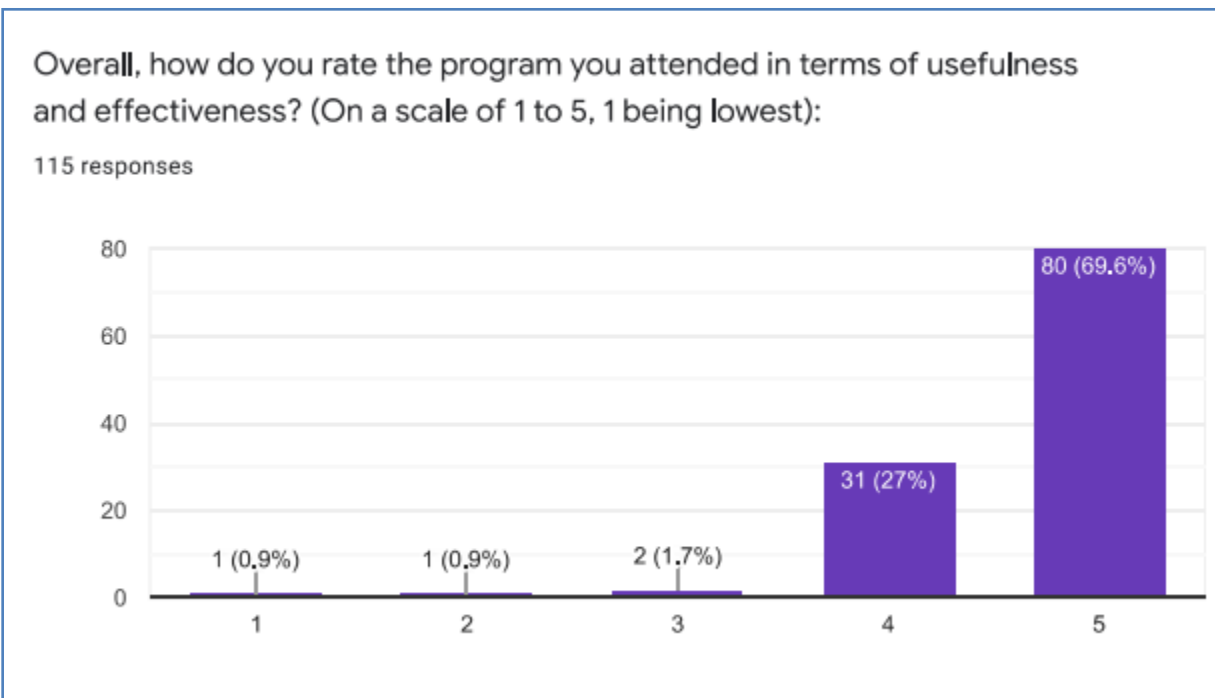
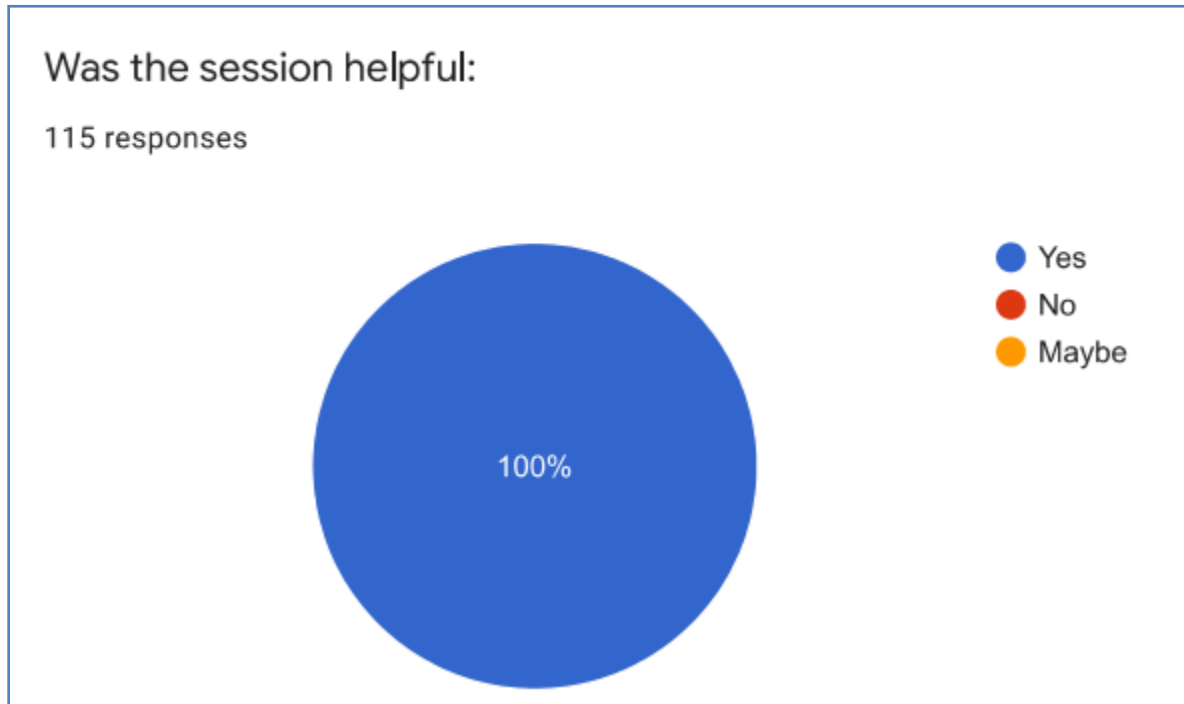
Day 5: Session on 4th June 2021

The screenshot shows a Zoom meeting interface. The main window displays a PowerPoint slide titled "MACHINE LEARNING IN BIOINFORMATICS". The slide content includes a diagram of a cell with a DNA double helix and a microscope. Below the diagram, the presenter's name and affiliation are listed: "Dr. Abhishek Bhola, Ph.D. (CSE), M.E. (CSE), B.Tech. (IT), Chitkara University Research and Innovation Network (CURIN), CHITKARA UNIVERSITY HIMACHAL PRADESH - 174103". The Zoom interface shows a recording notice at the top, a participants list on the right with 4 presenters and 39 attendees, and a bottom toolbar with icons for chat, mute, and other controls. The time is 4:04 PM on 6/4/2021.

The screenshot shows a Zoom meeting interface. The main window displays a PowerPoint slide titled "Classifications of Topics Where Machine Learning Methods are Applied". The slide features a central diagram with "BIOINFORMATICS" in a grey oval, connected to six colored ovals representing different topics: Genomics (yellow), Proteomics (blue), Microarrays (green), Systems Biology (orange), Evolution (grey), and Text Mining (yellow). Each topic is accompanied by a list of specific machine learning applications. For example, Genomics includes "Extract the location and structure of the genes", "Identification of Regulatory Elements and Non-coding RNA Genes", and "RNA Secondary Structure Prediction". The Zoom interface shows a recording notice at the top, a participants list on the right with 5 presenters and 52 attendees, and a bottom toolbar with icons for chat, mute, and other controls. The time is 4:15 PM on 6/4/2021.

Day-5: Session Delivered by Dr. Abhishek Bhola (Resource Person)

Day-5 Feedback:



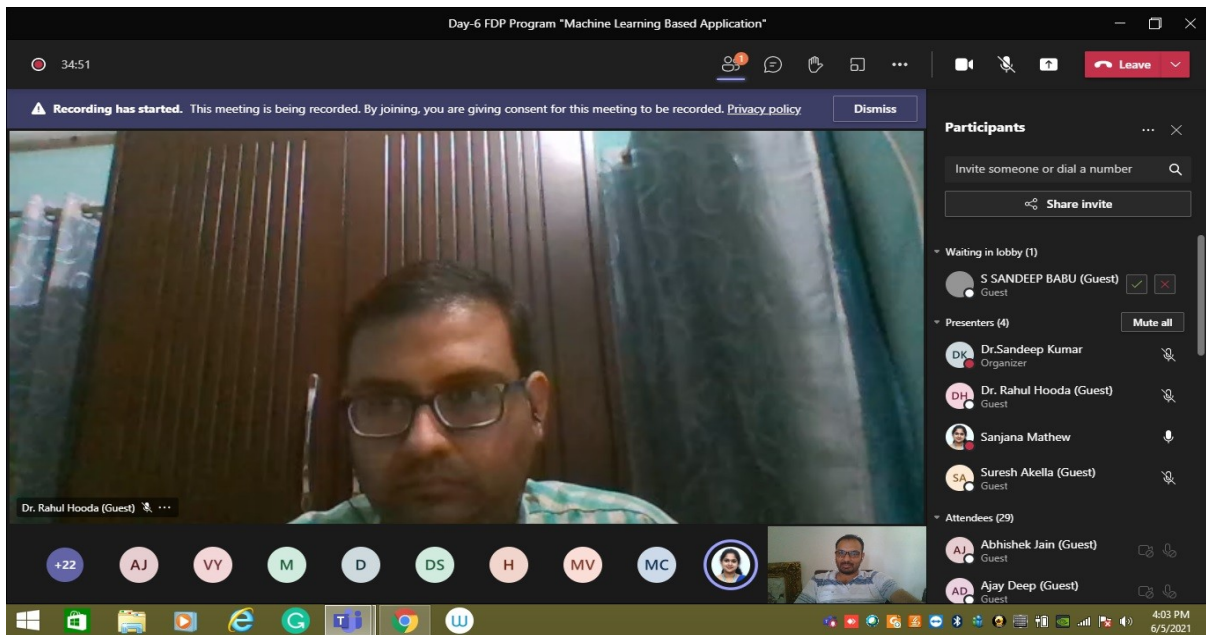
Day-5: Feedback of Dr. Abhishek Bholra (Resource Person)

Day 6: Session on 5th June 2021

Day-6 FDP Program "Machine Learning Based Application"

34:51

Recording has started. This meeting is being recorded. By joining, you are giving consent for this meeting to be recorded. [Privacy policy](#) Dismiss



Participants

Invite someone or dial a number

Share invite

Waiting in lobby (1)

S SANDEEP BABU (Guest)

Presenters (4)

Dr. Sandeep Kumar (Organizer)

Dr. Rahul Hooda (Guest)

Sanjana Mathew

Suresh Akella (Guest)

Attendees (29)

Abhishek Jain (Guest)

Ajay Deep (Guest)

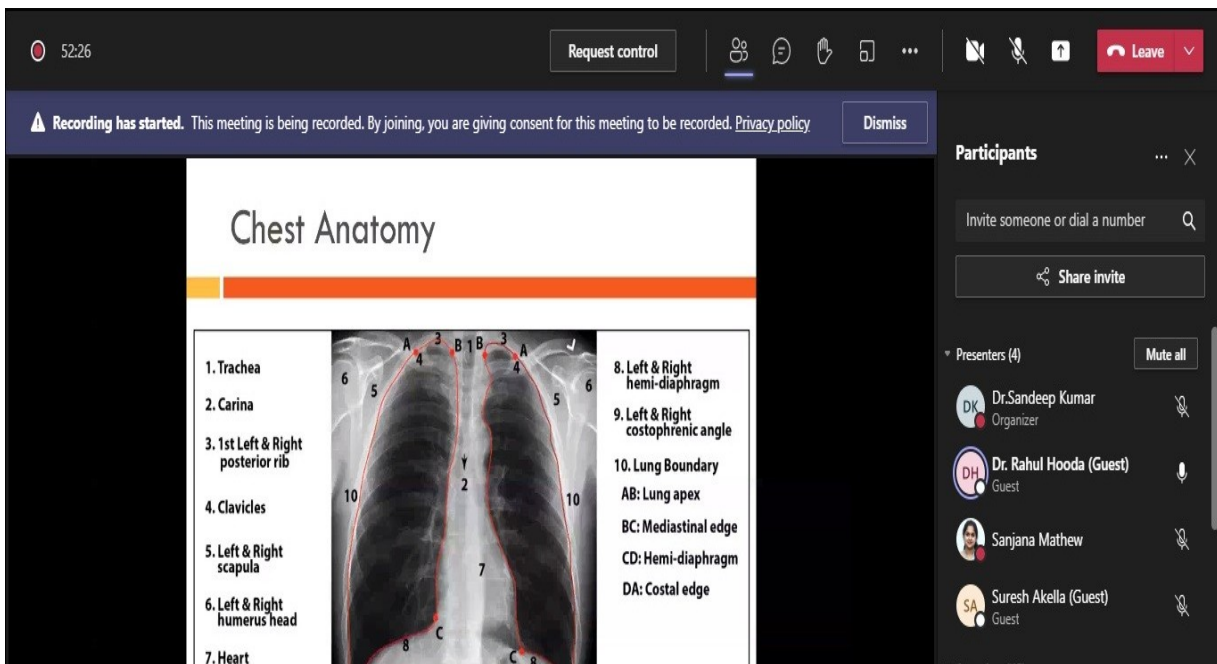
4:03 PM 6/5/2021

52:26

Request control

Recording has started. This meeting is being recorded. By joining, you are giving consent for this meeting to be recorded. [Privacy policy](#) Dismiss

Chest Anatomy



1. Trachea

2. Carina

3. 1st Left & Right posterior rib

4. Clavicles

5. Left & Right scapula

6. Left & Right humerus head

7. Heart

8. Left & Right hemi-diaphragm

9. Left & Right costophrenic angle

10. Lung Boundary

AB: Lung apex

BC: Mediastinal edge

CD: Hemi-diaphragm

DA: Costal edge

Participants

Invite someone or dial a number

Share invite

Presenters (4)

Dr. Sandeep Kumar (Organizer)

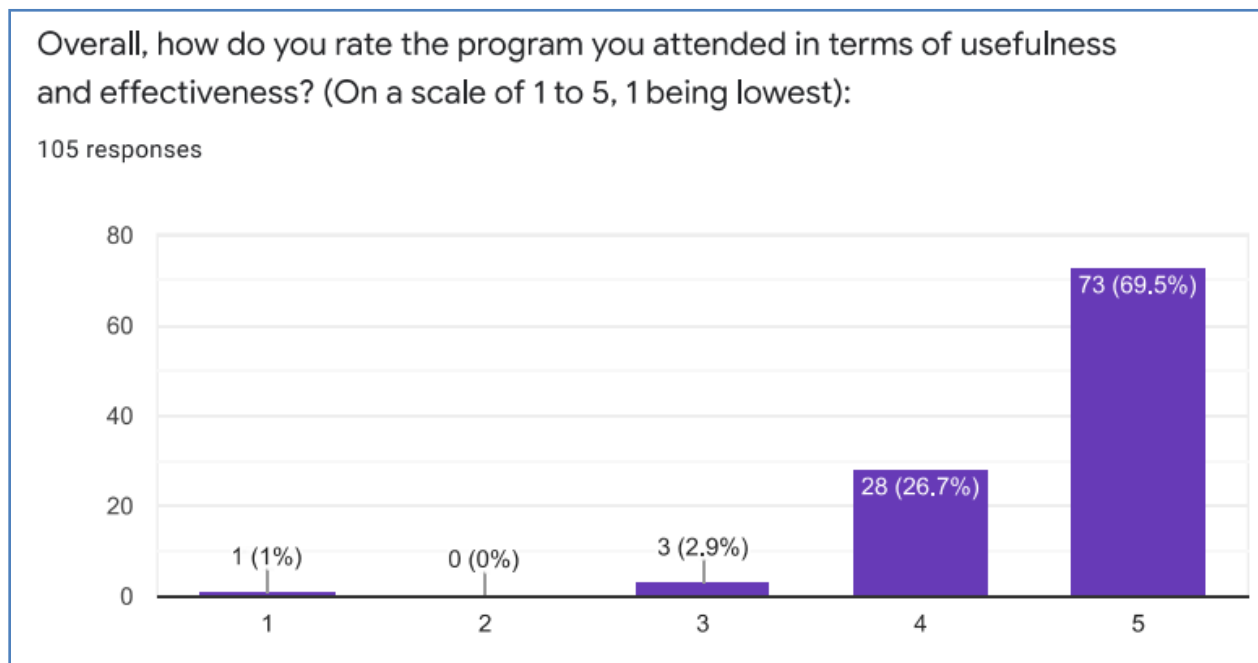
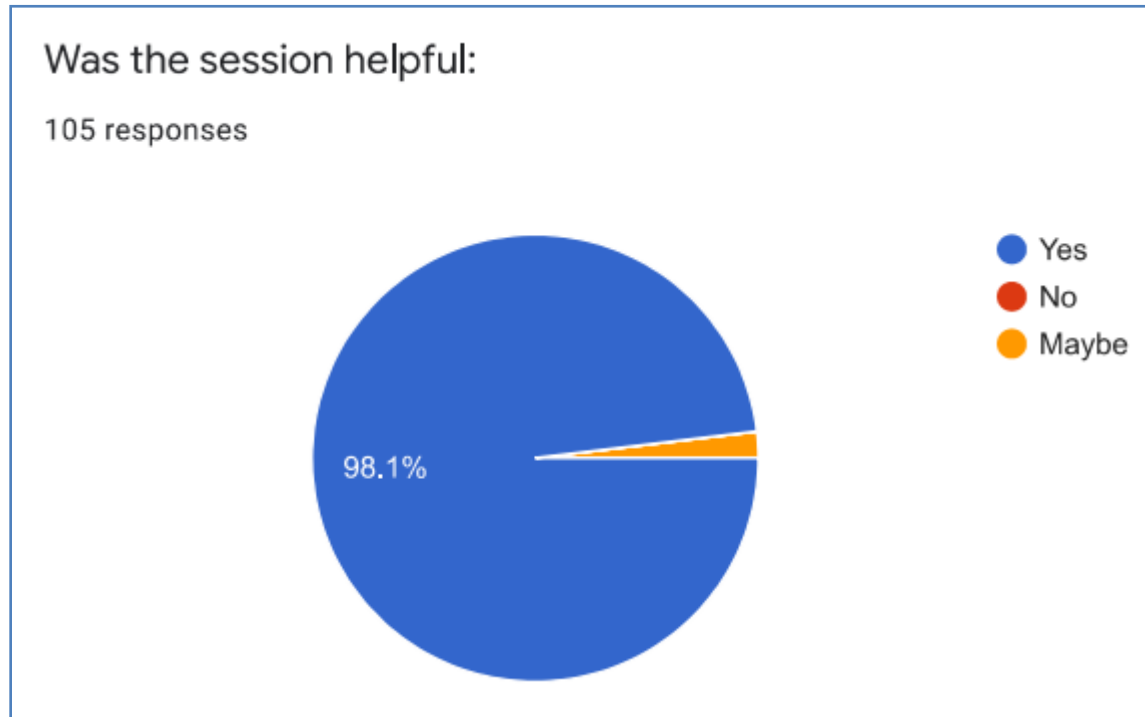
Dr. Rahul Hooda (Guest)

Sanjana Mathew

Suresh Akella (Guest)

Day-6: Session Delivered by Dr. Rahul Hooda (Resource Person)

Day-6 Feedback:



Day-6: Feedback of Dr. Rahul Hooda (Resource Person)

Valedictory Session

Receiving an overwhelming response from participants, the Six-day FDP on “Machine Learning based Applications” came to an end with the Valedictory Session, graced by Hon’ble Principal, Dr. S. Sai Satyanarayana Reddy on 05/06/2020 (the last day). Sir congratulated the management of the college, HOD-ECE, organizers, and all participants for their lively participation. Dr. A. Suresh Akela sir, Dean R&D, Professor of mechanical dept congratulated all the management, principal, HOD-ECE, Coordinators and participants for making this event a grand success. Vote of Thanks was delivered by the FDP Coordinators Dr. Sandeep Kumar (Associate Dean & Professor). “The end of a story is the new beginning for many others”, the program concluded on this happy note.

Outcome of the Event

All the sessions were very informative. The discussed areas are of great benefit to the participants as the topics match with the academic curriculum. Participants were educated on Machine Learning based Applications like image processing, speech processing, video processing etc. The participants gained fundamental knowledge of machine learning. This FDP was immensely useful for the beginner level, middle level research scholars and Assistant Professors. The research scholars can get technical inputs for their research work from the Resource Persons.

Dr. Sandeep Kumar

(FDP Coordinator)