

# SYMBIOSIS INSTITUTE OF COMPUTER STUDIES AND RESEARCH

SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

Established under section 3 of the UGC Act 1956, Re- accredited by NAAC with 'A' Grade

Founder: Prof. Dr. S. B. Mujumdar, M.Sc., Ph.D. (Awarded Padma Bhushan and Padma Shri by President of India)

## **EVENT REPORT**

- Topic/Title of the Event: 6 days International eFDP on Applications of Machine Learning in Internet of Things(IoT) and Data Analytics
- 2) Type of the Event : Faculty Development Program
- **3) Date(s) of the Event** :  $19^{th}$  June 2023 to  $26^{th}$  June 2023
- 4) Time/Duration/Period : 10.00 AM to 12.00 PM and 2.00 PM to 4.00 PM (4 hours, 6days)
- 5) Venue : Online mode -

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- 6) Date of Submission of Report : 05/07/2023
- 7) Name of Event Co-coordinator(s) and Team Member(s) : Dr. Madhuri Rao & Dr. Sumegh Tharewal
- 8) Name(s) of Organization(s) & Brief Profile(s) of Guest(s)/Speaker(s)/Resource Person(s):

There were 12 Guest Speakers whose details are as follows-Sl.NoSpeaker Name & Affiliation

1	Dr. Abdul Aleem [ PhD MNIT A Associate Professor, SCSE, Galgotias University
2	Dr. Rourab Paul [ Post Doc IIT Kanpur, Ph. D University of Calcutta] Associate Professor and Post-Doctoral Research Fellow at University of Pisa, Egypt
3	Dr. Nimisha Ghosh[ Ph.D NISER], Associate Professor @ SOADU, Bhubaneswar & Post Doctoral Fellow at CNR Rome, Former ERCIM PostDoctoral fellow at University of Warsaw, Poland
4	Dr. Saugat Bhattacharya, Lecturer in Computer Science, School of Computer Science, Faculty of Computing, Ulster University, United Kingdom
5	Dr. Satosh Kumar Sahu [ Ph.D from NIT Rourkela, M.Tech NIT Rourkela] , Senior Programming Officer, ONGC
6	Dr. Hemaraju Pollayi [Ph.D IISC, Post Doc- Ohio State University], Associate Professor, Department of Civil Engineering, School of Technology, GITAM University Hyderabad
7	Dr. Jitesh Pradhan [ Ph.D ISM Dhanbad, M.Tech ISM Dhanbad] Assistant Professor, National Institute of Technology, Jamshedpur
8	Dr. Tomothy Malche [ Ph.D, RTUB , MP], Assistant Professor, Manipal University, Jaipur, Rajasthasn
9	Dr. Brijendra Pratap Singh [ Ph.D NIT Kurukshetra], Associate Professor, School of Computer Science, Bennet University, Noida
10	Dr. Manas Ranjan Prusty [ Ph.D IGCAR Kaplakkam], Associate Professor, Vellore Institute of Technology, Chennai
11	Dr. Gururaj Mukarambi, Asst.Professor of Computer Science @ School of Computer Science, Central University of Karnataka
12	Dr. Jasminder Kaur Sandhu [Ph.D Thapar University] , Associate Professor and Ph.D Coordinator, Chandigarh University, Patiala



#### 10) Associates/Sponsors/Partners (ACM/IEEE/SIU/WiMLDS/etc.): N.A

#### 11) Details (remarks, beneficiaries, etc.):

The 6 days International e-FDP on "Applications of Machine Learning in Internet of Things and Data Analytics" was held from 19th June 2023 to 26th June 2023. It comprised of 12 sessions that were delivered by eminent speakers from premier institute of national and international repute. More than 90 Participants registered for the program. The participants gained knowledge on how real world problems could be addressed using Machine Learning and Deep Learning approaches. Latest tools such as Orange, TinyML, R were discussed and their efficient use was demonstrated by the speakers. Open Research oriented problems that need to be addressed in Internet of Things and data analytics with the help of ML and transfer learning were discussed. Various ML algorithms such regression, SVM, KNN, Naïve Bayes, Time Series Forecasting, etc and their implementation in solving complex real life problems were also explained briefly. The titles of the talks session wise are –

- 1. Session 1 Data Analytics to Machine Learning
- 2. Session 2- Machine learning in Blockchain based Smart City
- 3. Session 3- Application of machine learning/Deep learning in computational biology
- 4. Session 4- Introduction to Predictive Coding
- 5. Session 5- Applied Machine Learning through Visual Programming
- Session 6- IoT and AI/ML based Intelligent Systems for Real-Time Structural Applications in Civil Engineering
- 7. Session 7- Application of Deep Transfer Learning for Skin Lesion Detection.
- 8. Session 8- Harnessing the Power of IoT and TinyML for Intelligent Edge Computing and

Real-time Decision making

- 9. Session 9- Applications of Machine Learning in Cyber Security Data Analysis
- 10. Session 10- Deep Learning for Disease Classification
- 11. Session 11- Addressing Challenges in Digital Image Processing with machine Learning techniques
- 12. Session 12- Machine Learning for Real-World Problems

The Detailed Brochure, Time Table, certificate, Video Link and Photographs are provided below.

- 12) Submitted By: Dr. Madhuri Rao
- 13) Check List (as applicable and to be attached with email, preferably in pdf format)

Video/Photos with caption Email Communication of Approvals and Sanctions Attendance Sheet of Participants (with their signature) Summary of Feedback Form



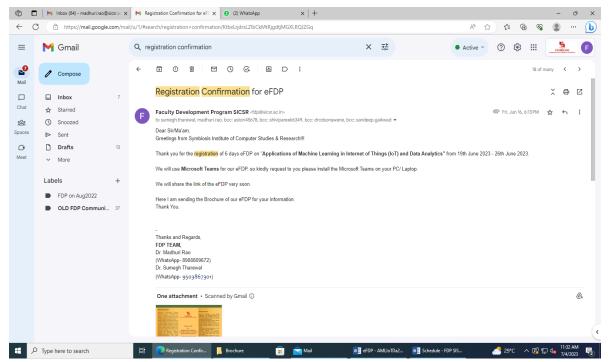
Scanned Copy (in single pdf file) of at least 5 Feedback Forms



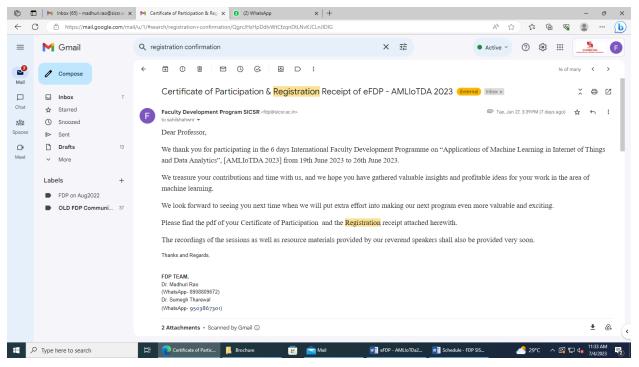
**Certificate to Guest Speaker / Participant Sample** 



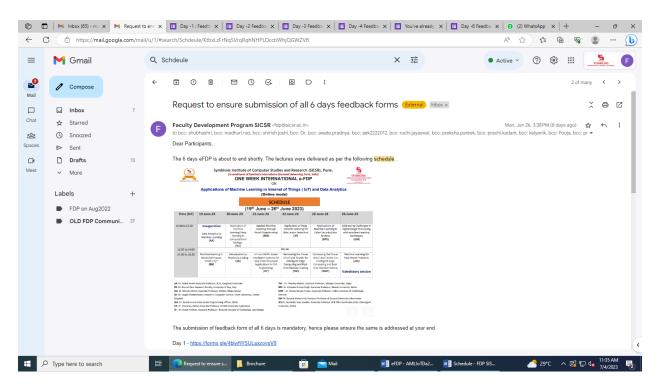
## e-mail -Communication



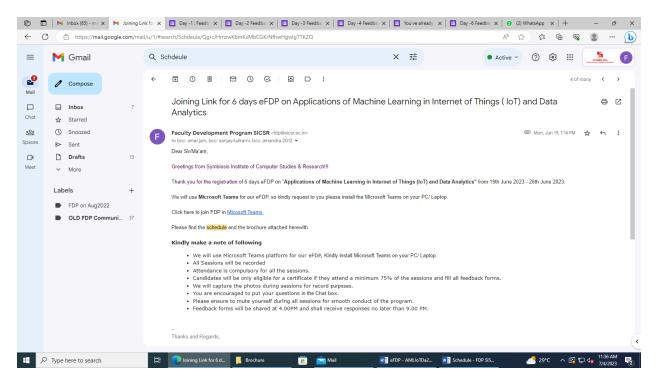
Sample of Registration Confirmation email to Participants



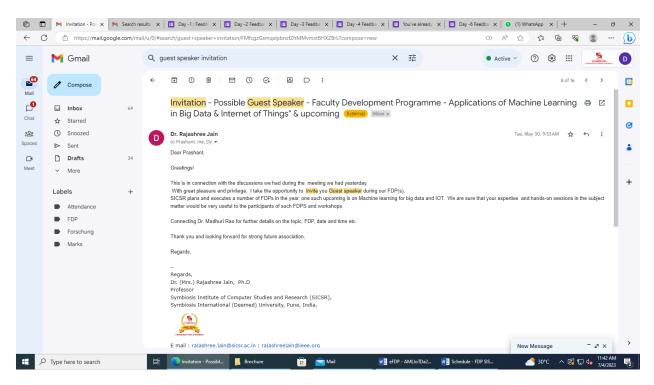
Sample of Certificate of Participation and Payment Receipt to Participants



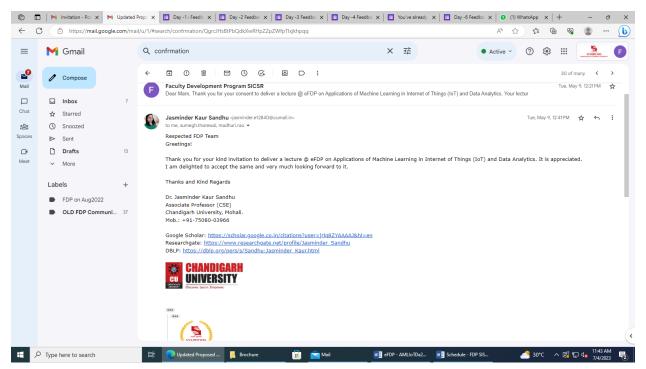
Sample email for Feedback form Submission



## Sample email for providing Joining Link to participants



Sample mail - Guest Speaker Invitation



Sample mail – acceptance to be a guest Speaker at eFDP-AMLIoTDA2023

**Photographs:** 

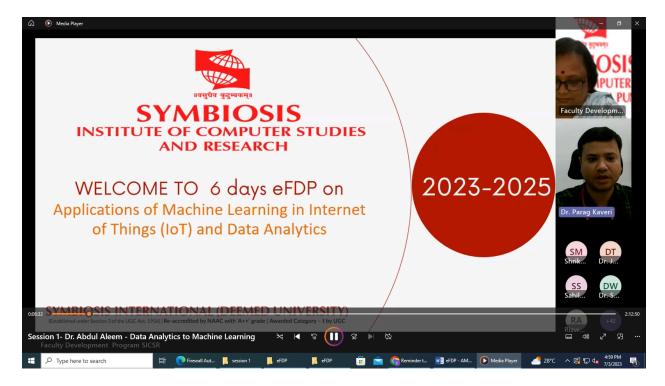


Fig 1: Inauguration Ceremony held at 10.00 AM on 19th June 2023 in online mode

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Fig 2: Session 2 by Dr. Rourab Paul held on 19<sup>th</sup> June 2023, 2.00PM – 4.00 PM in online mode.

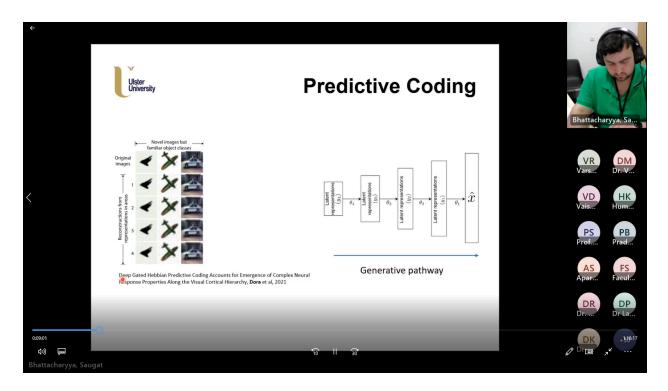


Fig 3: Session 4 by Dr. S.Bhattacharya held on 20<sup>th</sup> June 2023, 2.00 PM -4.00 Pm in online mode

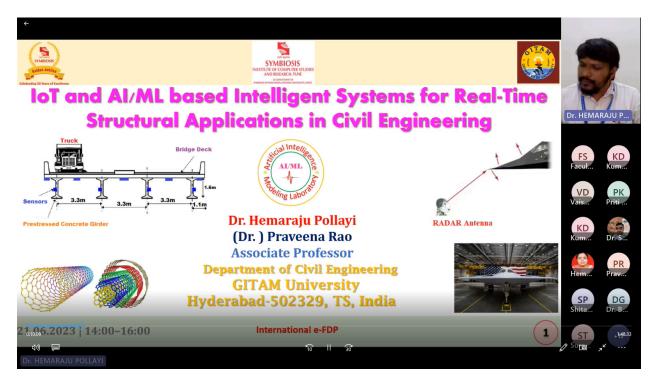


Fig 4: Session 6 by Dr. H. Pollayi held on 21<sup>st</sup> June 2023, 2.00 PM - 4.00 PM in online mode

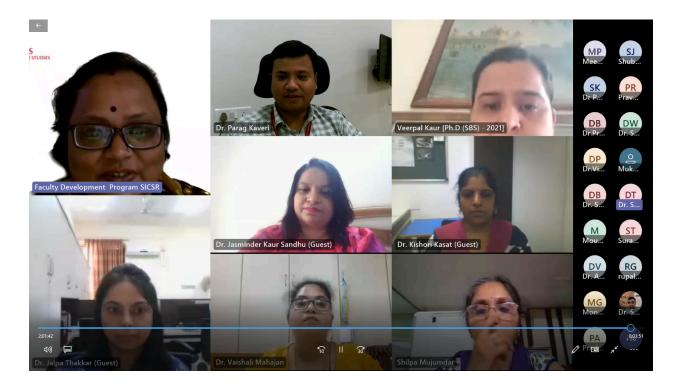


Figure 5: Valedictory Function held on 26<sup>th</sup> June 2023 at 3.45 PM in online mode.

### Attendance:

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6 Ashish Dhoke	Joined		1:55:41 PM																		
7 Rushikesh Kulkarni	Joined		1:55:41 PM																		
8 Dr. Sachin A. Naik	Joined		1:55:41 PM																		
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10 Prof. Apurva P Keskar (Guest)	Joined		1:55:41 PM																		
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13 Dr. Raghupathy Anchala, SIHS (Guest)	Joined	6/19/23,	1:55:41 PM																		
14 Arpita Gurbaxani (Guest)	Joined		1:55:41 PM																		
5 Prof.Dipak Kadve (Guest)	Joined	6/19/23,	1:55:41 PM																		
16 Kumari Deepika (Guest)	Joined	6/19/23,	1:55:41 PM																		
17 Smriti Pathak (Guest)	Joined	6/19/23,	1:55:41 PM																		
8 Preksha Pareek (Guest)	Joined	6/19/23,	1:55:41 PM																		
9 Dr. Jalpa Thakkar (Guest)	Joined	6/19/23,	1:55:41 PM																		
20 Dr Latika Pinjarkar (Guest)	Joined	6/19/23,	1:55:41 PM																		
21 Rupali Gangarde (Guest)	Joined	6/19/23,	1:55:41 PM																		
22 Prof. Dr. Jatinderkumar R. Saini (Guest)	Joined	6/19/23,	1:55:41 PM																		
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4 Ruchi Jayaswal	Joined	6/19/23,	1:55:41 PM																		
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6 Dr. Parag Kaveri	Joined	6/19/23,	1:55:41 PM																		
7 Vaishnavi Dabir	Joined	6/19/23,	1:55:41 PM																		
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Session 1 Attendance – 19th June 2023

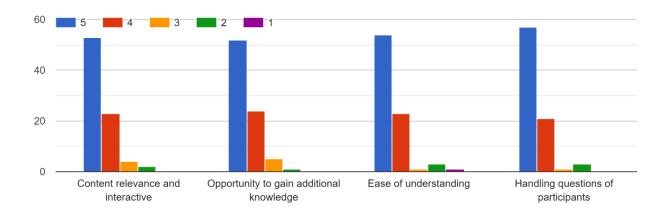
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Mugdha Kshirsagar	Joined	6/20/23,	9:34:22 AN	1																
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Session 2 Attendance – 19<sup>th</sup> June 2023

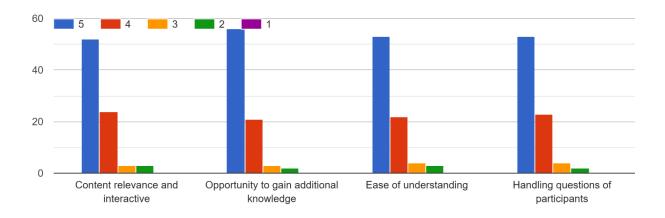
## **Summary of Feedback Forms**



Rate the Session-I (Dr. Abdul Aleem - Analytics to Machine Learning) on the scale of 5 to 1: Excellent (5), Good (4), Average (3), Below Average (2), Poor (1)



Rate the Session-2 (Dr. Rourab Paul - Machine learning in Blockchain based Smart City) on the scale of 5 to 1: Excellent (5), Good (4), Average (3), Below Average (2), Poor (1)





Ease of understanding

Handling questions of

participants

Rate the Session-3 (Dr. Nimisha Ghosh- Application of Machine Learning/Deep Learning in Computational Biology) on the scale of 5 to 1: Exc...Good (4), Average (3), Below Average (2), Poor (1)

Rate the Session-4 (Dr. Saugat Bhattacharya - Introduction to Predictive Coding) on the scale of 5 to 1: Excellent (5), Good (4), Average (3), Below Average (2), Poor (1)

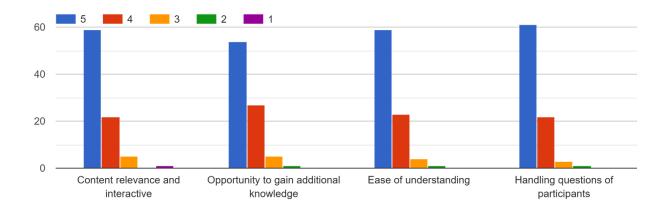
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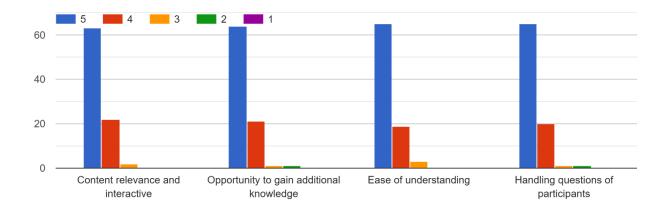
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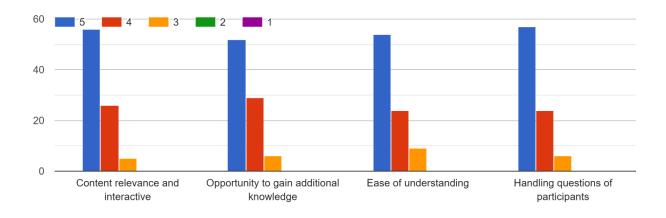
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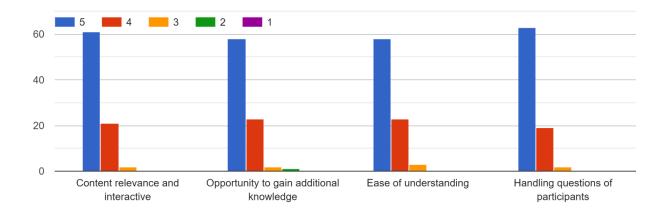


Rate the Session-5 ( Dr. Satosh Kumar Sahu - Applied Machine Learning through Visual Programming ) on the scale of 5 to 1: Excellent (5), Good (4), Average (3), Below Average (2), Poor (1)

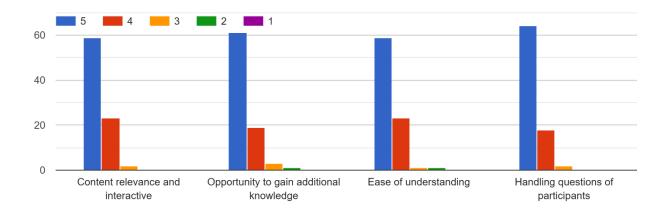
Rate the Session-6 (Dr. Hemaraju Pollayi - IoT and AI/ML based Intelligent Systems for Real-Time Structural Applications in Civil Engineering ) on t..., Good (4), Average (3), Below Average (2), Poor (1)

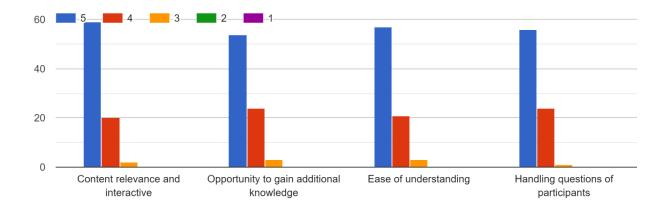


Rate the Session-7 ( Dr. Jitesh Pradhan - Application of Deep Transfer Learning for Skin Lesion Detection ) on the scale of 5 to 1: Excellent (5), Good (4), Average (3), Below Average (2), Poor (1)



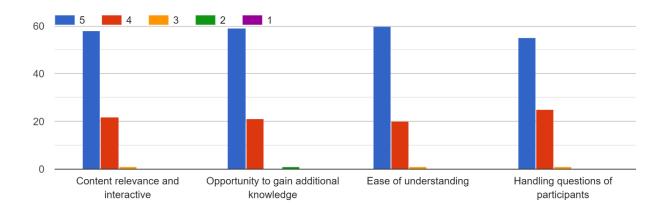
Rate the Session-8 (Dr. Timothy Malche - Harnessing the Power of IoT and TinyML for Intelligent Edge Computing and Real-time Decision making) o...ood (4), Average (3), Below Average (2), Poor (1)



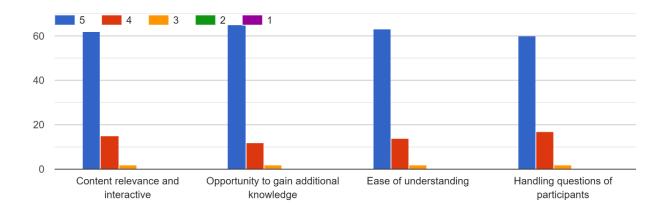


Rate the Session-9 (Dr. Brijendra Pratap Singh - Applications of Machine Learning in Cyber Security Data Analysis) on the scale of 5 to 1: Excellent (5), Good (4), Average (3), Below Average (2), Poor (1)

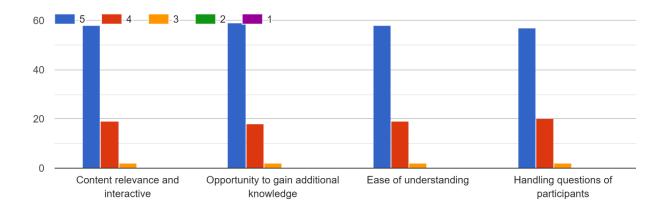
Rate the Session-I0 (Dr. Manas Ranjan Prusty-Image Processing based Deep Learning Models for Disease Classification) on the scale of 5 to 1: Exc... Good (4), Average (3), Below Average (2), Poor (1)



Rate the Session-11 (Dr. Gururaj Mukarambi - Addressing Challenges in Digital Image Processing with machine learning techniques) on the scale of ...Good (4), Average (3), Below Average (2), Poor (1)



Rate the Session-12 ( Dr. Jasminder Kaur Sandhu - Machine Learning for Real-World Problems ) on the scale of 5 to 1: Excellent (5), Good (4), Average (3), Below Average (2), Poor (1)



Sample Feedback Form

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	6/26/2023 15:36:53 Dr. Priya Jadhav	priya.jadhav@sitpune.ed	5	5	5	4	4	5	
	6/26/2023 15:40:28 Dr. K. Nandhini	nandhini.k@sitpune.edu.	5	5	5	5	4	4	į.
	6/26/2023 15:40:39 Dr. Sandeep Vasant	Gaik sandeep.gaikwad@sicsr.	5	5	5	5	5	5	ł
	6/26/2023 15:43:57 Dr. Jalpa Thakkar	jalpa.thakkar@scmspune	5	5	4	5	5	5	Į.
	6/26/2023 15:45:42 Dr Pooja Kamat	pooja.kamat@sitpune.ed	5	5	5	5	5	5	
	6/26/2023 15:45:54 Vinaykumar S Jatti	vinay.jatti@sitpune.edu.ir	5	5	5	5	5	5	ŧ
	6/26/2023 15:46:01 Sahil Kailas shah	sahilshahwnr@gmail.con	4	4	5	5	4	4	4

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#### **Certificate of Appreciation**





**Certificate of Participation**