



SYMBIOSIS INSTITUTE OF COMPUTER STUDIES & RESEARCH

Symbiosis International (Deemed University)

Established under section 3 of the UGC Act 1956

Re-accredited by NAAC with 'A++' grade | Awarded Category- I by UGC

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

EVENT REPORT

- 1) **Topic/Title of the Event** : One Week International eFDP on Data Analytics
- 2) **Type of the Event** : FDP
(Conference/FDP/SDP/
Workshop/Seminar/Guest
Lecture/Placement Activity
/etc.)
- 3) **Date(s) of the Event** : 4th August 4, 2022 till 10 August 4, 2022
- 4) **Time/Duration/Period** : 6 days
- 5) **Venue** : Online
- 6) **Date of Submission of Report:** 11th August 2022.
- 7) **Name of Event Co-coordinator(s) and Team Member(s) :**
 1. Dr. Jatinderkumar R. Saini, Director SICSR, Convener.
 2. Dr. Sachin Naik
 3. Dr. Anagha Vaidya
 4. Mrs. Poonam Pawar
- 8) **Name(s) of Organization(s) & Brief Profile(s) of Guest(s)/Speaker(s)/Resource Person(s) :**
 - 1) Dr. Pravin Metkewar, Prof. SICSR, Pune
 - 2) Dr. Rajashree Jain, Prof. SICSR, Pune
 - 3) Dr. Chitra Dhawale, Prof. P.R.Pote College of Eng. And Mgmt., Amravati (MS)
 - 4) Dr. Yogesh Rajput, Senior Faculty (IT), Ajeenkya D. Y. Patil University, Pune
 - 5) Mr. Pravin Kedia, CTO for Data and AI, CoE for cloud Pak for Data, IBM Expert Labs
 - 6) Dr. Shrikant Mapari, Asst Prof, SICSR, Pune
 - 7) Ms. Sheetal Atha, Lead special projects, Design Thinking Coach, IBM
 - 8) Dr. Baljeet Kaur, Asst Prof, SICSR, Pune
 - 9) Dr. Sandeep Gaikwad, Asst Prof. CHARUSAT University, Gujarat
 - 10) Dr. Parag Kaveri, Asst Prof, SICSR, Pune
 - 11) Dr. Darshan Ruikar, Asst Prof .MIT World Peace University, Pune
 - 12) Dr. Amol Vibhute, Asst Prof, SICSR, Pune

9) No. of Participants:

SICSR Student SICSR Staff

SIU Student SIU Staff Other

Total

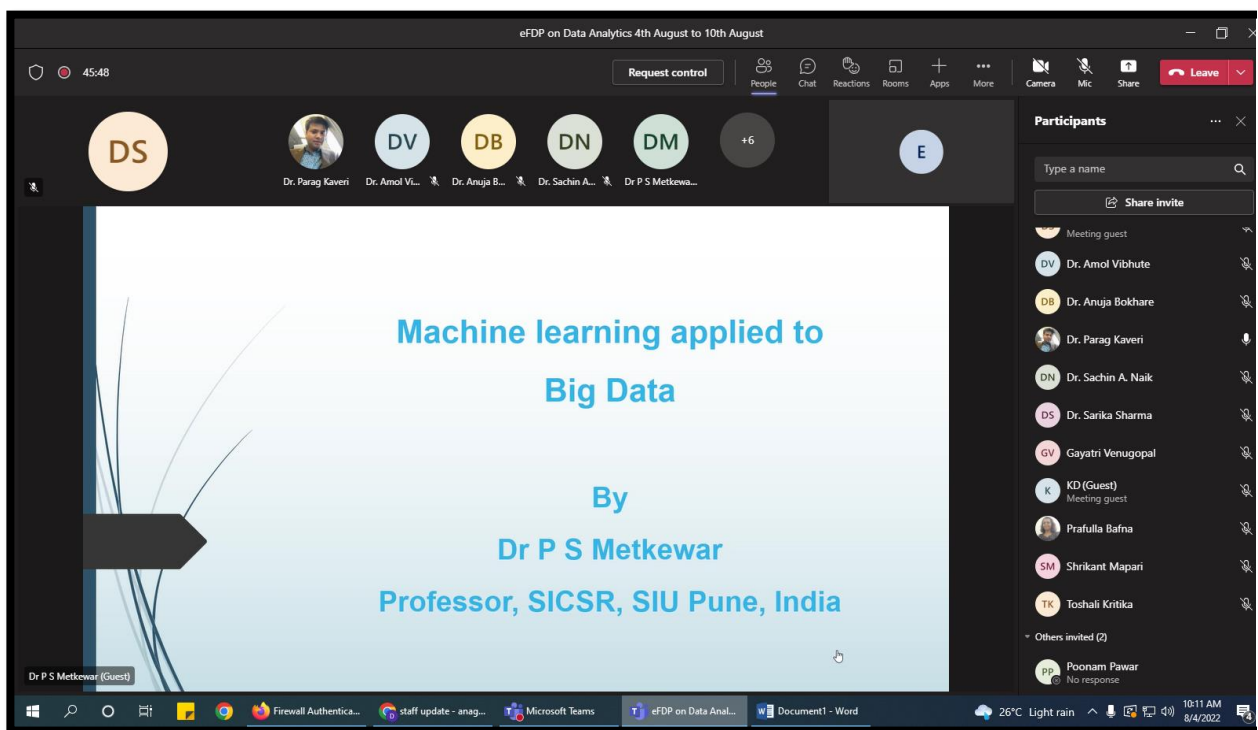
Day 1

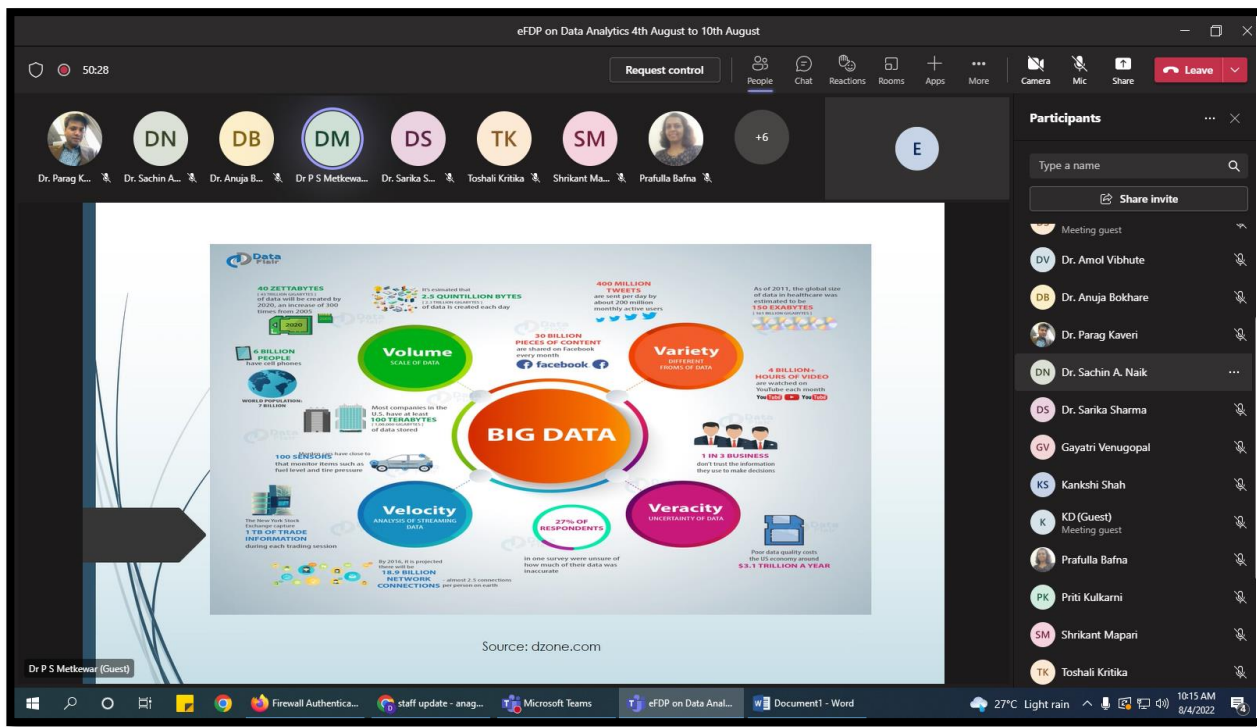
Guest Speaker: - Dr. Pravin Metkewar

Topic: - Machine learning applied to Big Data".

Date: -4th August 2022

Timing: 10:00 am till 12:00 pm



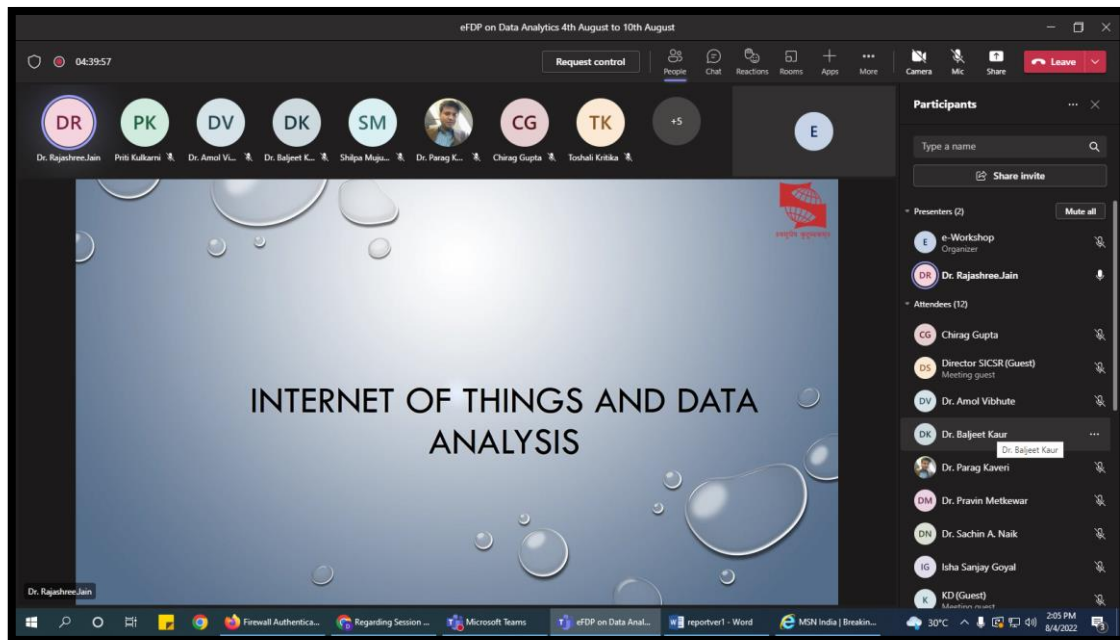


- Summary:- Dr. Pravin discussed the big data basic concept and the current problem faced in the dig data like data management , meta data collection and organization of heterogeneous data . He explain all four parameters : Volume Scale of Data ,Velocity :- Amount of streaming data , analysis of streaming data ,Veracity :- Uncertainty of data and Variety :- semi structure and unstructured data . He explain the technological details about the big data handling with respective these four parameters. The session contain the case study on “Twitter Sentimental Analysis “ on Speak Streaming system. He demonstrate “Orange “ open source software for demonstration of huge volume data .

Guest Speaker: - Dr. Rajashree Jain

Topic:- Machine learning applied to Big Data".

Date :-4th August 2022 Timing :10:00 am till 12:00 pm



eFDP on Data Analytics 4th August to 10th August

04:41:41

Request control

People Chat Reactions Rooms Apps More

Camera Mic Share Leave

Participants

Type a name

Share invite

Presenters (2) Mute all

- e-Workshop Organizer
- Dr. Rajashree Jain

Attendees (12)

- Chirag Gupta
- Director SICSIR (Guest) Meeting guest
- Dr. Amol Vibhute
- Dr. Bajjeet Kaur
- Dr. Parag Kaveri
- Dr. Pravin Metkewar
- Dr. Sachin A. Naik
- Isha Sanjay Goyal
- KD (Guest) Meeting guest

2:07 PM 8/4/2022

SICSIR
Symbiosis Institute of Computer Studies and Research

Dr Rajashree Jain
Professor, Symbiosis Institute of Computer Studies and Research, Pune

Certified Entrepreneurship Trainer –NEN-STVP-IIMB
Certified Start Up mentor- NEN-LBS-Goldman Sachs

Secretary, IEEE India Council, 2021-22
Vice Chair, IEEE TEMS, Pune, Chair, Educational Activities, IEEE Pune Section, 2021-22

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Mob:+91 9423038848

eFDP on Data Analytics 4th August to 10th August

06:20:34

Request control

People Chat Reactions Rooms Apps More

Camera Mic Share Leave

Participants

Type a name

Share invite

Presenters (2) Mute all

- e-Workshop Organizer
- Dr. Rajashree Jain

Attendees (12)

- Director SICSIR (Guest) Meeting guest
- Dr. Amol Vibhute
- Dr. Anuja Bokhare
- Dr. Bajjeet Kaur
- Dr. Parag Kaveri
- Dr. Pravin Metkewar
- Dr. Sachin A. Naik
- Hema Gaikwad (Guest) Meeting guest
- KD (Guest) Meeting guest

3:45 PM 8/4/2022

WATER PARAMETER MONITORING

DATA SET - UNIVERSITY OF SOUTH CAROLINA WAS LOADED TO ANALYTIC ENGINE OF WQMRS.

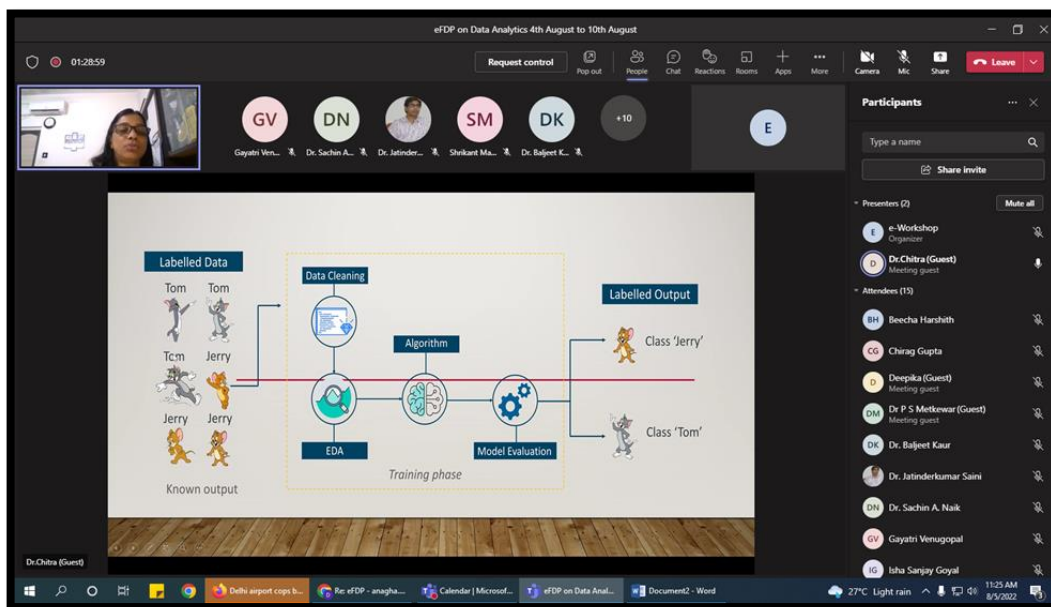
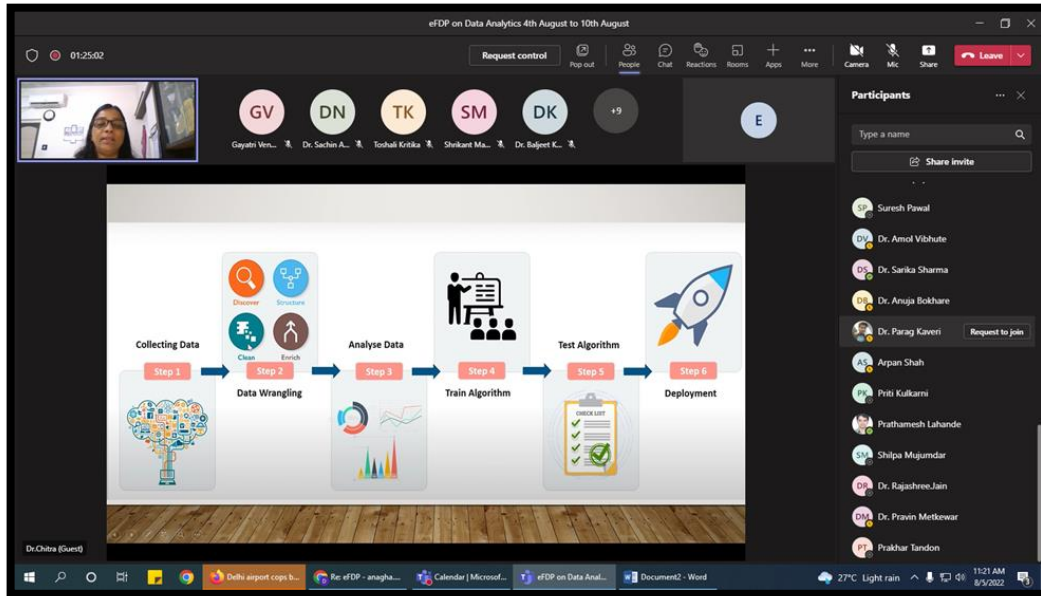
- THE DATA SET CONSISTED OF 6500 RECORDS COLLECTED BETWEEN AUGUST –DECEMBER 2001.
- THE DATA WAS COLLECTED FOR VARIOUS WATER PARAMETERS AT AN INTERVAL OF APPROXIMATELY ONCE PER HOUR.
- SOME OF THE PARAMETERS WHICH WE CONSIDERED FOR ANALYSIS WERE TEMPERATURE, PH AND DEPTH OF WATER BODY.

Dr. Rajashree Jain

Summary: - Dr. Rajashree discussed about the IOT concept and architecture of IOT system. The different layers of the IOT system. She explains about why, where and how IOT is used. She explain with all the concept of IOT with simple example with different case study like IOT in transport, IOT for healthcare and fitness, IOT in single vehicle etc . She explain the case study, which was working project of affordable agricultural lab “Jal Mitra” for water quality Index measurement. And IOT used in farmer utilization

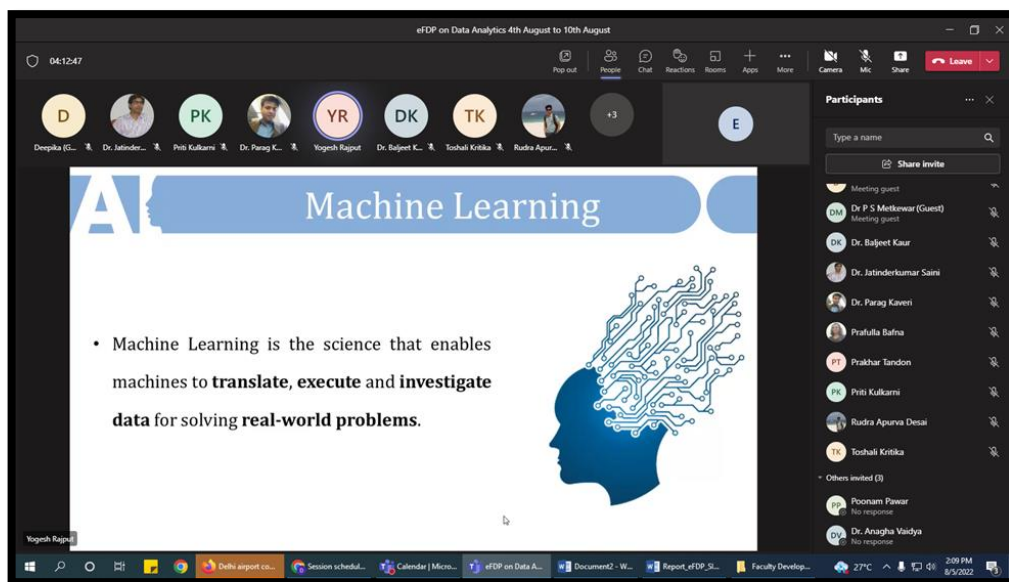
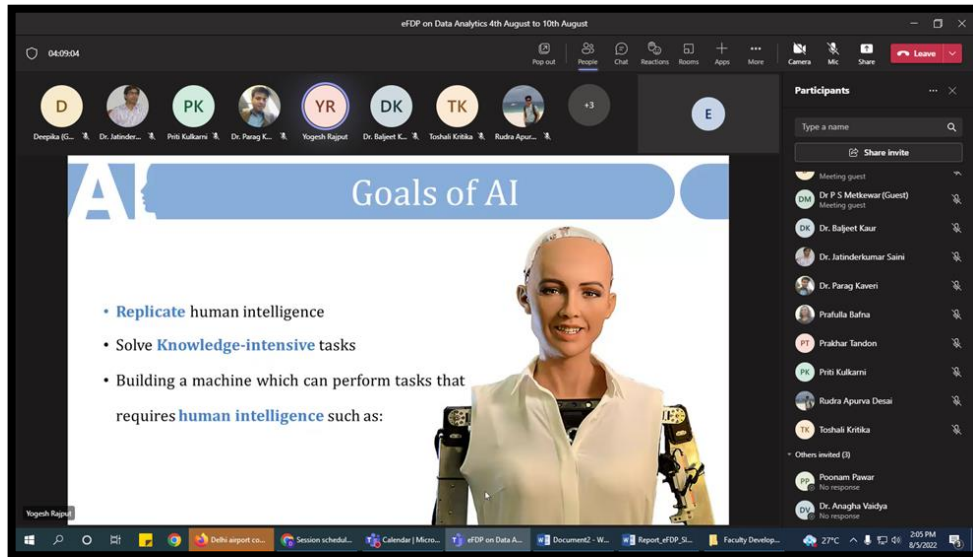
Day 2: -

Guest Speaker: - Dr. Chitra Dawale
Topic:- Supervised Machine Learning using python
Date:-5th August 2022
Timing: 10:00 am till 12:00 pm



Summary: - She explain the different type of machine learning algorithm. Explain the difference between supervised, unsupervised and reinforcement learning algorithm. She provide hands on python session linear regression and logistic regression .

Guest Speaker: - Dr. Yogesh Rajput
Topic:- Recent Trends in Artificial Intelligence
Date:-5th August 2022
Timing: 02:00 pm till 4:00 pm



Summary:- Discussed basic concept of AI and different goals in AI applications like use of AI in health care, Siri, Alexa and ROBOTS etc. He discussed different AI branches like machine learning, Neural Network, Robotics, Expert System, NLP. He conversed AI applications Ecommerce, Banking, Finance, Health Care, Gaming, social media and Face App. He discussed different advantages and disadvantages of system

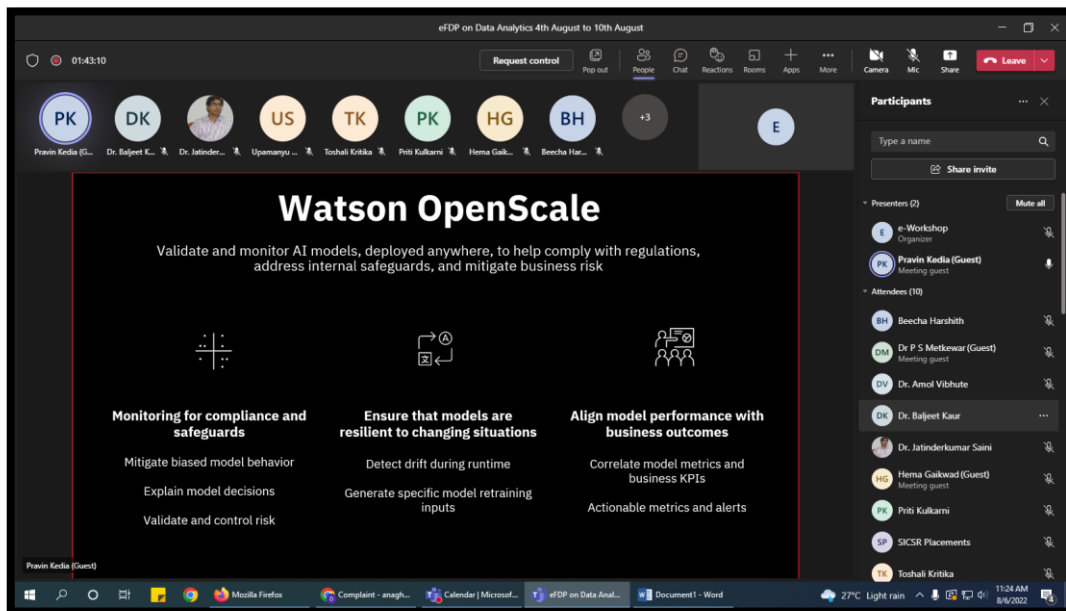
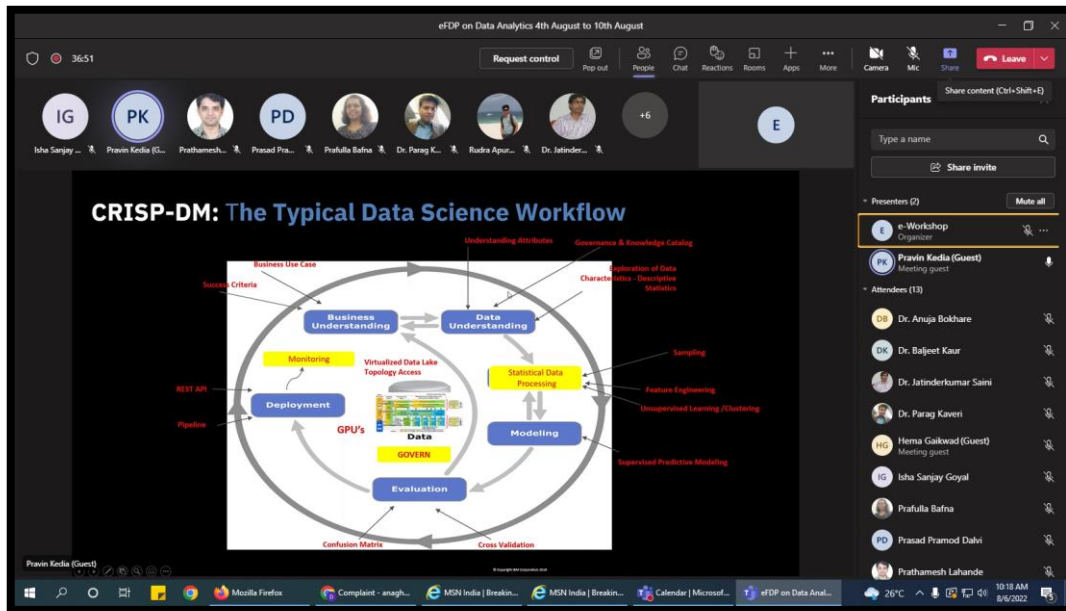
Day 2: -

Guest Speaker: - Mr. Pravin Kedia, CTO, Solution Architect, Data and AI at IBM

Topic:- IBM Hybrid Cloud, Data Science and ML using IBM Cloud Pak for Data and Watson

Date:-6th August 2022

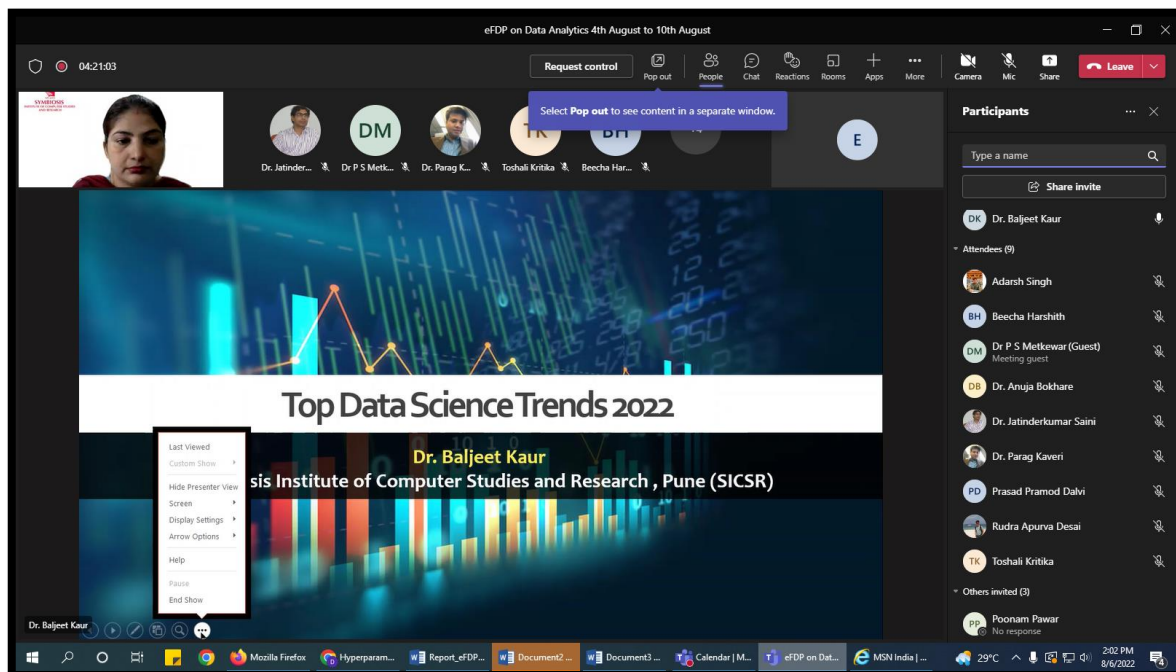
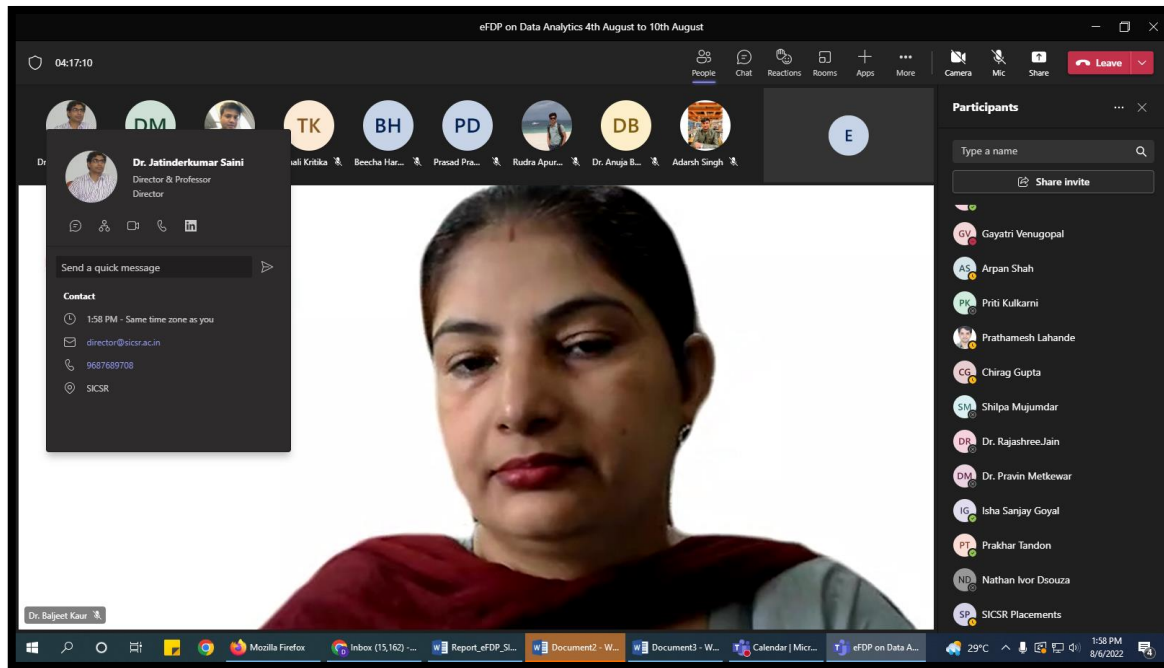
Timing: 10:00 am till 12:00 pm



Summary:-He explain cloud architecture and data science life cycle project. Identify the different

business goal and data science goal. He explain the base line performance goals with performance, time and money parameters. He explain Watson studio architecture and how the different services are implemented in the Watson studio.

Guest Speaker: - Dr. Baljeet Kaur
Topic:- Top Data Analysis Trends
Date:- 6th August 2022
Timing: 2:00pm till 4:00 pm



—Summary : She discusses top data science trends in 2022.-Big data is not a new concept for businesses anymore.—
1st Floor, Atur Centre, Gokhale Cross Road, Model Colony, Pune 411 016, Maharashtra, India. | Tel: +91-20-25675601/03
Email: admissions@sicsr.ac.in | Web: www.sicsr.ac.in

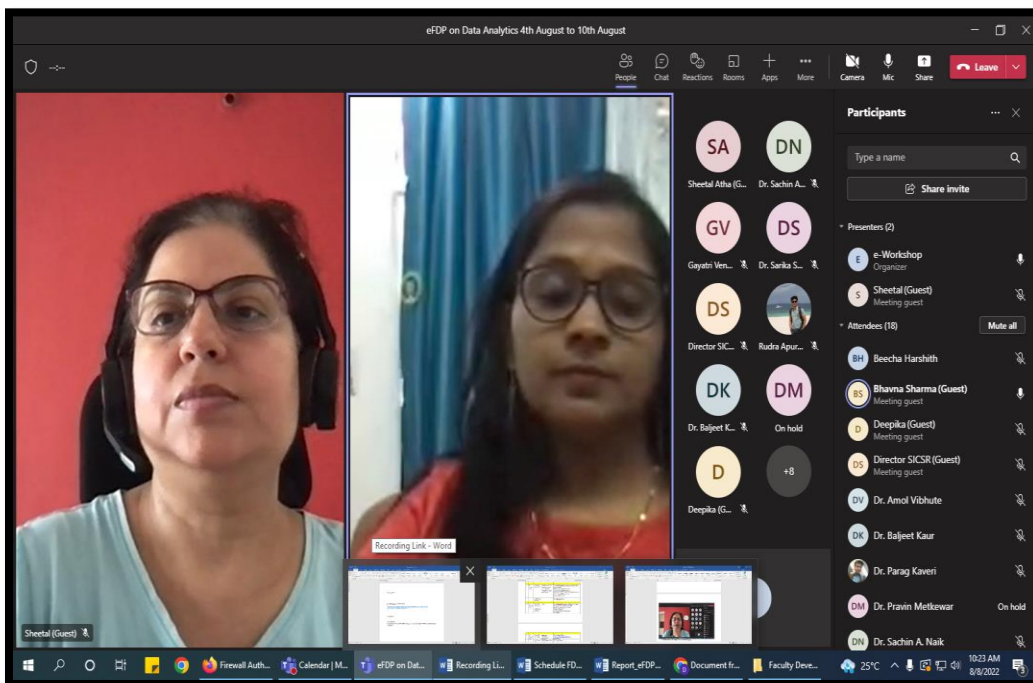
It has become an integral cog in the business wheel, especially for enterprises as they swear by how these data can be leveraged to gather insights. Data science is where science meets AI. Despite the pandemic, the field has only grown.

Guest Speaker: - Mrs Sheetal V Atha and Bhavna Sharma

Topic:- Agile Practice

Date:- 8th August 2022

Timing: 10:00 a m till 2:00 pm



Summary: - The session was conducted by Ms. Sheetal Atha, Lead special Projects | Design

Thinking Coach | Agile Coach, IBM and Ms Bhavna Sharma from IBM. Ms Sheetal explain
1st Floor, Atur Centre, Gokhale Cross Road, Model Colony, Pune 411 016, Maharashtra, India. | Tel: +91-20-25675601/03
Email: admissions@sicsr.ac.in | Web: www.sicsr.ac.in

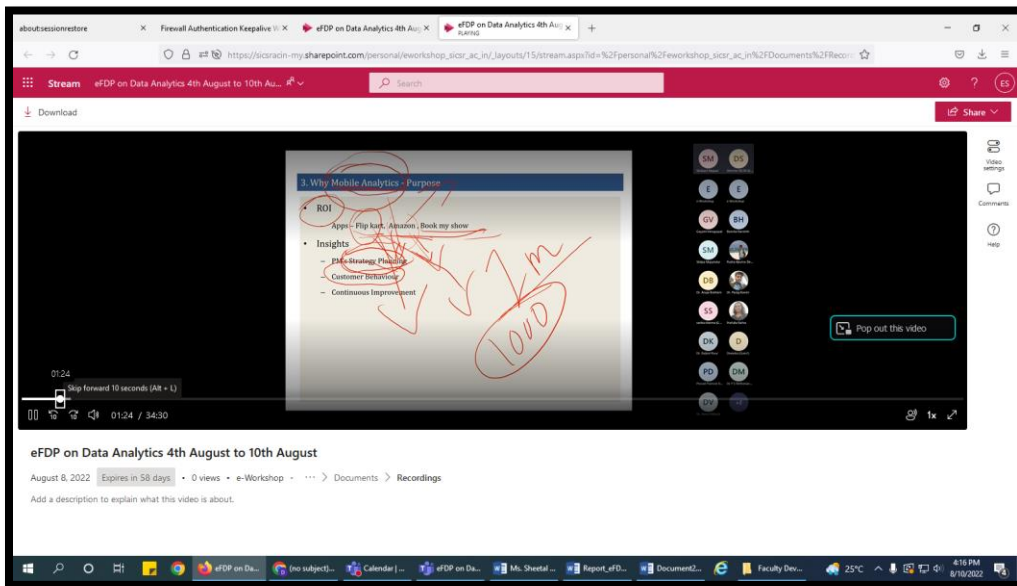
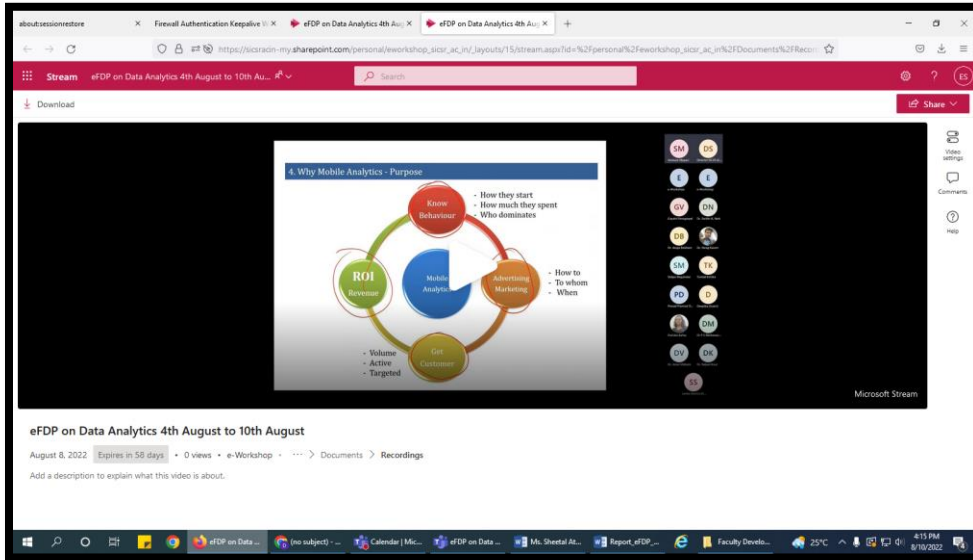
the seven myths of Agile and Ms Bhavana explain the pillars of scrum and tools used in agile practices. They explain agile methodology and Agile's four main values.

Guest Speaker: - Mr. Shrikan Mapari

Topic:- Mobile Analytics

Date:- 8th August 2022

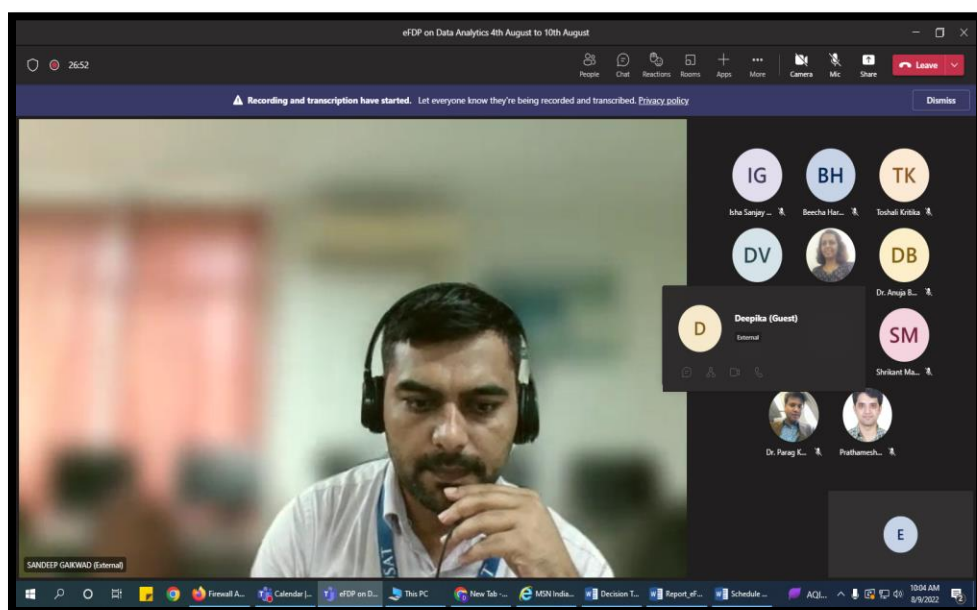
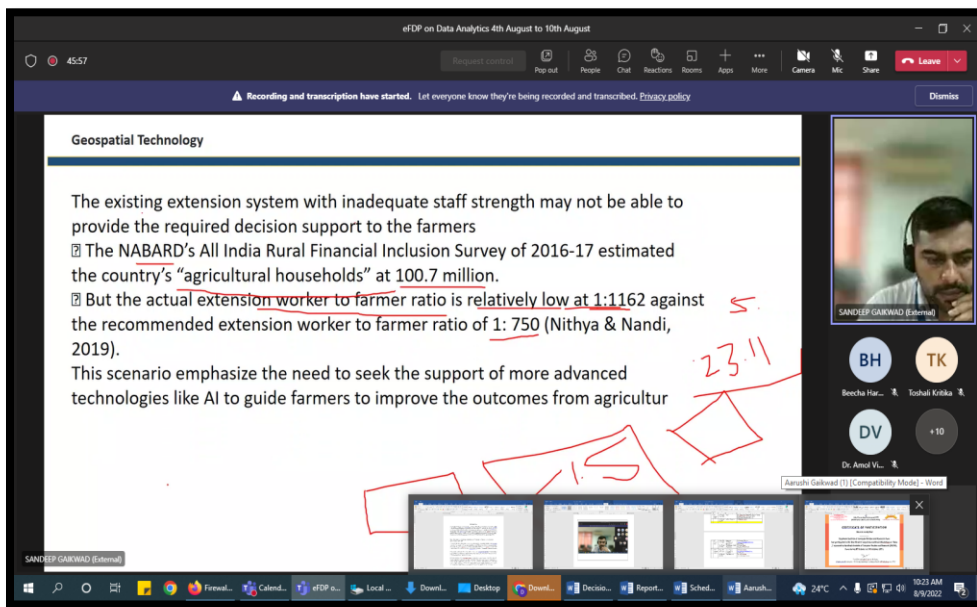
Timing: 2:00 pm till 4:00 pm



Summary: - He explain in simple language about the mobile computing and the different parameters used in mobile computing . Mobile analytics involves measuring and analyzing data generated by mobile platforms and properties, such as mobile sites and mobile applications. AT Internet’s analytics, solution lets you track, measure and understand how your mobile users are interacting with your mobile

sites and mobile apps. With mobile analytics data, you can improve your cross-channel marketing initiatives, optimize the mobile experience for your customers, and grow mobile user engagement and retention.

Guest Speaker: - Dr. Sandeep Gaikwad
Topic:- Geospatial Intelligence in Agriculture
Date:- 9th August 2022
Timing: 10:00 a m till 12:00 pm



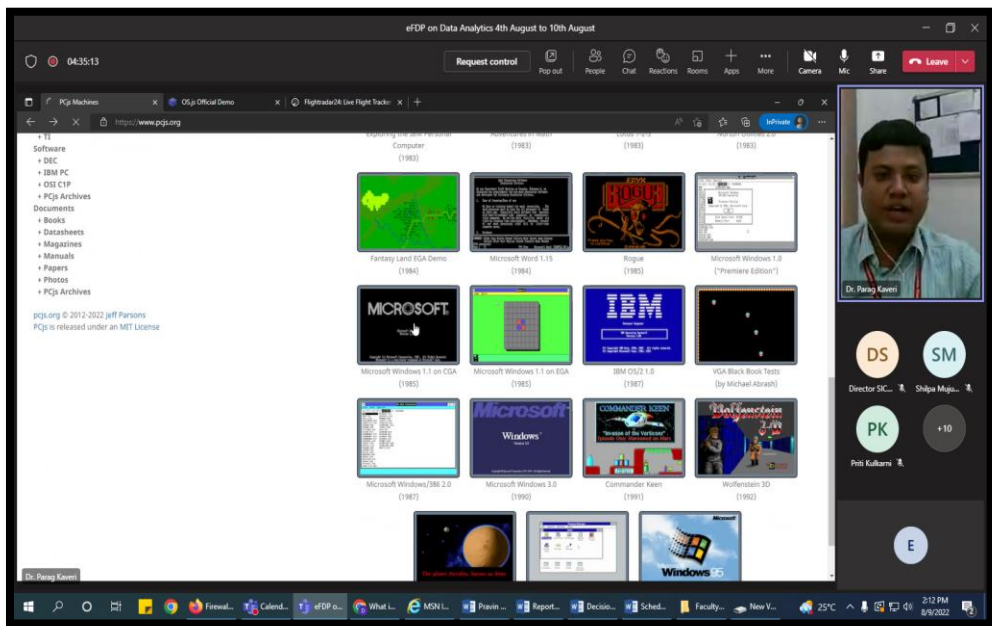
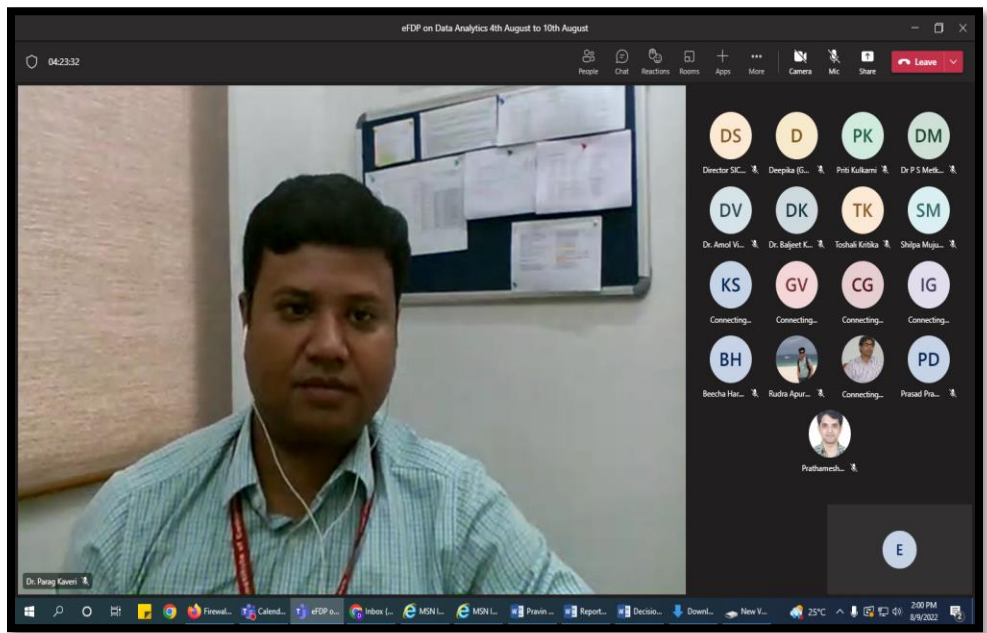
Summary:- He discussed about the Geo Intelligence. GIS in agriculture is not a new phenomenon anymore. The agricultural sector is the mainstay of the rural Indian economy around which socio-economic privileges and deprivations revolve, and any change in its structure is likely to have a corresponding impact on the existing pattern of social equality. No strategy of economic reform can succeed without sustained and broad-based agricultural development, which is critical for raising living standards, alleviating poverty, assuring food security, generating a buoyant market for expansion of industry and services and making a substantial contribution to the national economic growth.

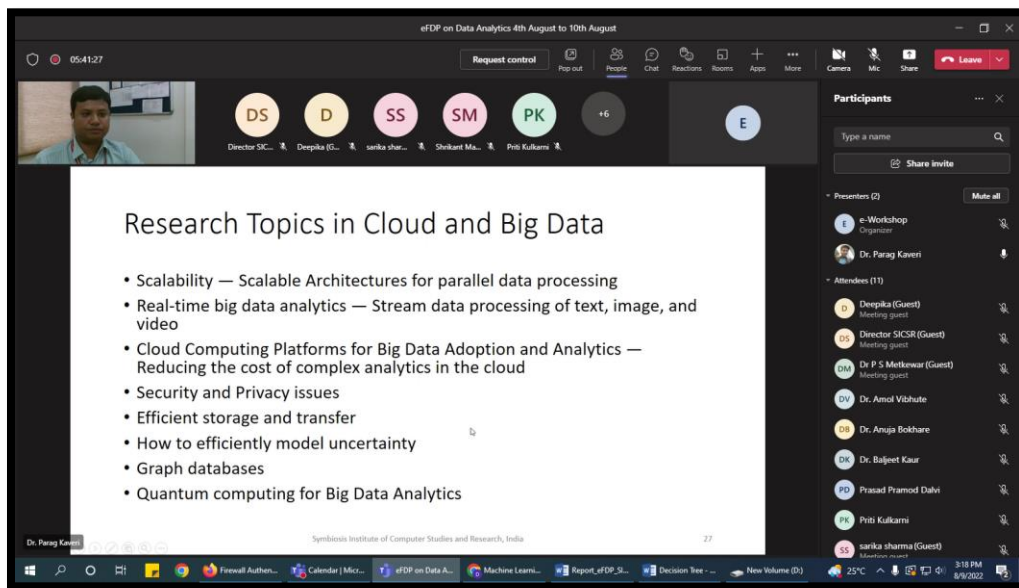
Guest Speaker: - Dr. Parag Kaveri

Topic:- Big Data and Cloud Applications , Challenges and opportunities

Date:- 9th August 2022

Timing: 2:00 pm till 4:00 pm





Summary :- Big Data is an umbrella term which encompasses all sorts of data which exists today. From hospital records and digital data to the overwhelming amount of government paperwork, which is archived – there is more to it than we officially know. We can't categorize Big Data under one definition or description, because we are still working on it. The great thing about information technology is that it has always been available for technology companies, businesses and all types of institutions. It was the emergence of cloud computing which made it easier to provide the best of technology in the most cost-effective packages. Cloud computing not only reduced costs, but also made a wide array of applications available to the smaller companies. Just as the cloud is growing steadily, we are also noticing an explosion of information across the web. Social media is a completely different world, where both marketers and common users generate loads of data every day. Organizations and institutions are also creating data on a daily basis, which can eventually become difficult to manage.

Guest Speaker: - Dr Darshan Ruikar

Topic:- Use of haptic technology in healthcare

Date:- 10th August 2022

Timing: 10:00 a m till 12:00 pm

The screenshot shows a Zoom meeting interface. The main window displays a presentation slide with the following text:

Use of Haptic Technology in Healthcare

Dr. Darshan Ruikar
M.Sc. (Computer Science), M.C.A., Ph.D., SET
Assistant Professor and Program Head B.Sc. DS BDA
MIT World Peace University
Pune

The Zoom interface includes a top bar with controls like 'Pop out', 'People', 'Chat', 'Reactions', 'Rooms', 'Apps', 'More', 'Camera', 'Mic', 'Share', and 'Leave'. A 'Participants' list on the right shows several attendees, including 'e-Workshop Organizer', 'Dr. Darshan Ruikar (Guest)', 'Deepika (Guest)', 'Dr. Arnot Vibhute', 'Dr. Pravin Metkewar', 'Gayatri Venugopal', 'Prafulla Bafna', 'Praasad Pramod Dahi', 'Rudra Apurva Desai', 'SANDEEP GAIK...', and 'sanka sharma (Guest)'. The bottom status bar shows the time as 10:07 AM on 8/10/2022.

The screenshot shows a Zoom meeting interface displaying a diagram titled "Architecture of a Virtual Reality Application with Haptic Feedback". The diagram illustrates the interaction between a Human Operator and a Simulation Engine through various rendering and haptic components.

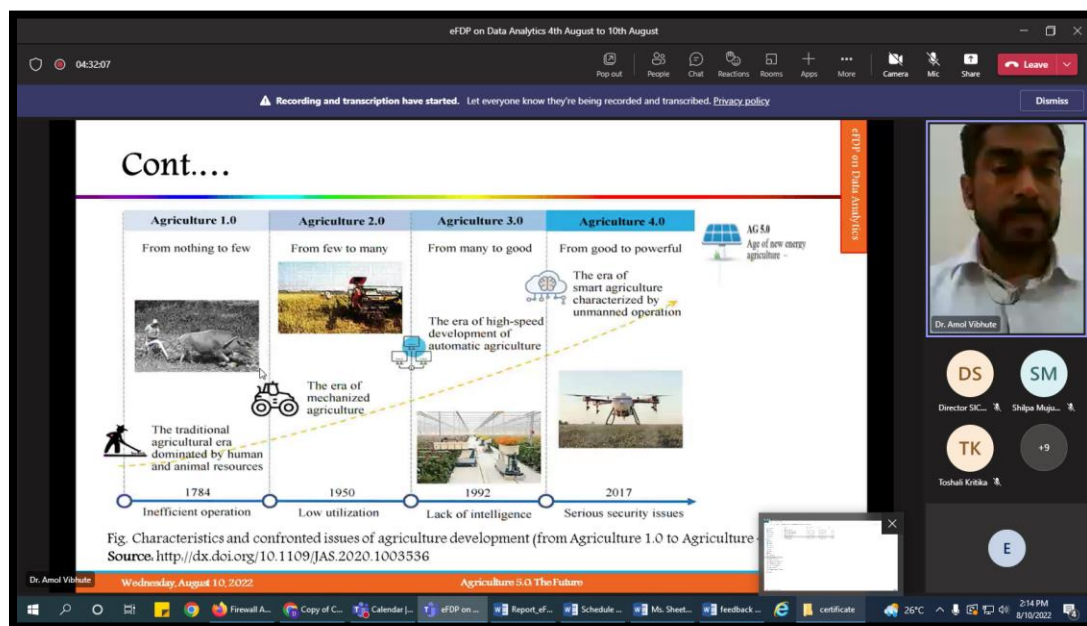
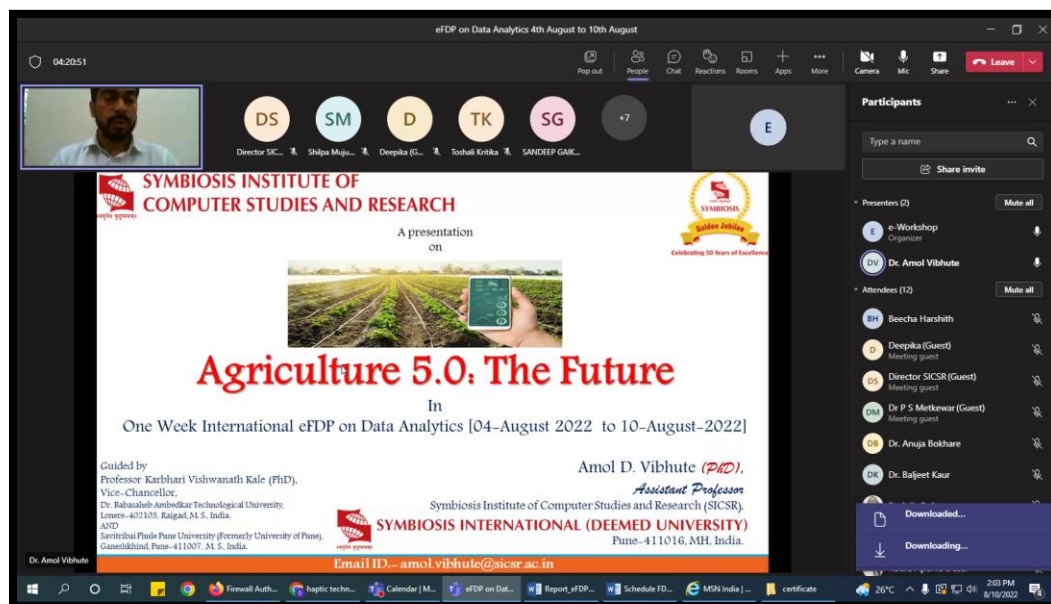
```
graph LR;
  HO[Human Operator] <--> VA[Video & Audio];
  VA <--> AVR[Audio-Visual Rendering];
  AVR <--> SE[Simulation Engine];
  HO <--> HD[Haptic Device];
  HD <--> HR[Haptic Rendering];
  HR <--> SE;
```

The diagram shows a flow of information and interaction between the Human Operator, Video & Audio, Audio-Visual Rendering, Simulation Engine, Haptic Device, and Haptic Rendering. The Human Operator interacts with Video & Audio and Haptic Device. Video & Audio interacts with Audio-Visual Rendering. Audio-Visual Rendering interacts with the Simulation Engine. The Human Operator also interacts with the Haptic Device, which interacts with Haptic Rendering, which in turn interacts with the Simulation Engine.

The Zoom interface includes a top bar with controls like 'Pop out', 'People', 'Chat', 'Reactions', 'Rooms', 'Apps', 'More', 'Camera', 'Mic', 'Share', and 'Leave'. A 'Participants' list on the right shows several attendees, including 'sanka sharma', 'Director SIC...', and 'Rudra Apur...'. The bottom status bar shows the time as 11:17 AM on 8/10/2022.

Summary :- Haptics refers to the sense of touch and the associated perception and manipulation of objects that result from any form of interaction involving touch. Haptic technology aims to recreate the sense of touch via a device (haptic device) that serves as an interface between a user and a computer system. We use haptic technology to recreate the interactions between a clinician and the human body during medical examinations and surgical procedures, either through direct palpation of the anatomy, or indirectly through the manipulation of instruments such as endoscopes, catheters and guidewires. Studying and understanding the biomechanical behavior of organs / tissues and their deformation during such interaction and the dexterous manipulations performed by clinicians are important components of this lecture.

Guest Speaker: - Dr. Amol Vibhute
 Topic:- Agriculture 5.0
 Date:- 10th August 2022
 Timing: 2:00 pm till 4:00 pm



Summary: - Dr. Amol Vibhute discussed agriculture 5.0. He discussed precision farming and discussed the importance of 5 R in precision farming. He discussed different tools and different components in agricultural 4.0. He discussed the concept with the case study in the field of agriculture. He discussed the challenges and opportunities in agriculture 5.

10) Submitted By: Dr. Anagha Vaidya and Poonam Pawar

eFDP Attendance:

Registered Student Participants:

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47	Chaitanya kasibhatla	Male	Sicsr	Cak2022039@sicsr.ac.in
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4	Sarika Sharma	Female	professor	Symbiosis Institute of Computer Studies and Research	sarika.sharma@sicsr.ac.in
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6	Dr. Parag Ravikant Kaveri	Male	Assistant Professor	SICSR, Pune	parag.kaveri@sicsr.ac.in
7	Dr. Shrikant A. Maapri	Male	Assistant Professor	SICSR	shrikant.mapari@sicsr.ac.in
8	Toshali Kritika	Female	Ms.	Symbiosis Institute of Computer Studies and Research	tok2121192@sicsr.ac.in
9	Dr. Sachin A. Naik	Male	Assistant Professor and	SICSR	sachin.naik@sicsr.ac.in
10	Gayatri Venugopal	Female	Asst. Professor	SICSR	gayatri.venugopal@sicsr.ac.in
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12	Hema Gaikwad	Female	Assistant Professor	SICSR	hema.gaikwad@sicsr.ac.in
13	Anagha Vaidya	Female	Assistant Professor	SICSR	anagha.vaidya@sicsr.ac.in
14	Dr. Amol Dattatraya Vihare	Male	Assistant Professor	Symbiosis Institute of Computer Studies and Research	amolvihare2011@gmail.com
15	Dr. Priti Kulkarni	Female	Assistant Prof	SICSR	priti.kulkarni@sicsr.ac.in
16	Dr. Baljeet Kaur	Female	Assistant Professor	Symbiosis Institute of Computer Studies and Research	baljeet.kaur@sicsr.ac.in

Sample Certificate



**One Week International eFDP
on
Data Analytics [DA]
[4th August 2022 to 10th August 2022]**



Certificate of Participation

This is to certify that

Dr. Priti Kulkarni

Symbiosis Institute of Computer Studies and Research, Pune

has attended the One Week International eFDP on "Data Analytics" organized by Symbiosis Institute of Computer Studies and Research (SICSR), Pune during 4th August 2022 to 10th August 2022.

A handwritten signature in blue ink, appearing to read "Jatinderkumar R. Saini", is positioned above the printed name of the signatory.

**Prof. Dr. Jatinderkumar R. Saini,
Professor & Director, SICSR, Pune &
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