Sandip Foundation's

Sandip Institute of Engineering and Management,

Mahiravani, Trimbak Road, Nashik-422213

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DEPARTMENT OF COMPUTER ENGINEERING

REPORT
On

ONE WEEK ONLINE FACULTY DEVELOPMENT PROGRAM

on

'Generative Artificial Intelligence and Machine Learning (GAIML)'

(21st -25th May, 2024)

Report Prepared By-Ms Snehal P. Dongre, Asst. Professor, Dept. of Computer Engineering *on* 07th June 2024.

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INSTITUTE VISION MISSION

Vision

We at SIEM aspire to be a globally recognized institute that delivers a world class education to outstanding intellectuals by nurturing and grooming their interests, creative abilities and thrusts to acquire a life-long learning so as to imbibe values of their commitment towards society.

Mission

We at SIEM shall strive continuously-

- To inculcate and imbibe knowledge of cutting-edge technologies and its implementation for solving real life problems in a conducive environment.
- To collaborate with national and international institutes/industries/universities of repute for sustainable growth through team work.
- To motivate and retain highly skilled and knowledgeable individuals, whose creativity and interest in teaching uploads to achieve desired goals.
- To provide a dedicated platform to cater the needs of individuals and inspire them for their intellectual growth and character building.
- To enable the students to achieve excellence in the chosen fields and to share the responsibilities of citizenship and service in a disciplined manner.

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DEPARTMENT OF COMPUTER ENGINEERING

Vision:

The department aims to be recognized in the field of quality education through excellence in teaching, learning, research and innovation for the betterment of society.

Mission:

- To provide world class infrastructure with modern tools and technologies for better learning ambiance.
- To enhance problem solving skills by encouraging young and inspiring minds with innovative teaching & learning approaches.
- To build competent professionals and entrepreneurs through collaborative learning with national and international institutes of repute.
- To contribute in the development of society & nation at large through excellence in research and innovation.

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OBJECTIVES OF FACULTY DEVELOPMENT PROGRAMME:

- To build technological skills of faculties for their career and self-advancements.
- To develop self-observation and analytical skills among the faculty
- To inculcate attributes to transform teachers for quality and excellence.
- To acquaint the teachers with the reflective practices to enhance their teaching skills in 21stCentury.
- To reflect on changes and challenges in teaching-learning.
- To promote capacity building and productivity among faculty.
- To understand and bring into practice the role and responsibility of effective teacher.

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ABOUT FACULTY DEVELOPMENT PROGRAMME: -

The Computer Engineering Department of the Institute has organized a ***One Week Online Faculty Development Program*** on **'Generative Artificial Intelligence and Machine Learning (GAIML)'** during **21st -25th May, 2024** on online mode**.**

This FDP is an effort to provide a platform to the faculty and students to explore the synergistic potential of AI, ML and Generative AI fields equipped with the knowledge and skills to leverage their combined strengths for innovation and advancement in research, education and industry. It is a platform to interact and discuss with experts in the field.

The purpose of the FDP on GAIML 2024 is to explore the synergistic potential of AI, ML and Generative AI fields and equip participants with the knowledge and skills to leverage their combined strengths for innovation and advancement in research, education and industry. Its intention is to empower participants to contribute more effectively in academic and professional advancements in GAI and Open AI tools. To deliver the sessions at FDP, highly qualified, professional and renowned resource speakers were selected.

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Following is the detail of the eminent speakers who have delivered their expertise in their respective domains.

Sr. No.	Resource Person	Email ID	Contact No	Institute Name
1	**Dr. U. V. Kulkarni**	uvkulkarni@sggs.ac.in	9325612705	Professor, Department of Computer Science & Engineering, SGGS IET, Vishnupuri, Nanded.
2	**Dr. Balaji S. Shetty**	bsshetty@sggs.ac.in	9270696267 / 7276300495	Associate Professor, Information Technology, SGGS IET, Vishnupuri, Nanded
3	**Dr. M. S. Mahindrakar**	msmahindrakar@sggs.ac.in	9420020120	Assistant Professor, Computer Science and Engg, SGGS IET, Vishnupuri Nanded.
4	**Dr. Jitendra V. Tembhurne**	jtembhurne@iiitn.ac.in	9823504363	Assistant Professor, Department of Computer Science & Engineering, IIIT Nagpur.
5	**Mr. Tushar B. Kute**	tushar@tusharkute.com	9860668565	Sr. Data Scientist, MITU Research, Pune
6	**Dr. Richa K. Makhijani**	richa.makhijani@iiitn.ac.in	9922411282	Assistant Professor, Department of Computer Science & Engineering ,IIIT Nagpur.
7	**Dr K. M. Sanghavi**	sanghavi.kmcoe@snjb.org	9921343342	Associate Professor & Head, Computer Engineering, SNJBCOE, Nashik

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FDP Brochure:

About the Institute

SIEM is approved by the AICTE, New Delhi, Government of India and affiliated to Savitribai Phule Pune University and accredited by NAAC with *'Grade A'*.

Vision: We at SIEM aspire to be a globally recognized institute that delivers a world class education to outstanding intellectuals by nurturing and grooming their interests, creative abilities and thrusts to acquire a life-long learning so as to imbibe values of their commitment towards society.

Mission: We at SIEM shall strive continuously-

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- To collaborate with national and international institutes/industries/universities of repute for sustainable growth through team work.
- To motivate and retain highly skilled and knowledgeable individuals, whose creativity and interest in teaching uploads to achieve desired goals.
- To provide a dedicated platform to cater the needs of individuals and inspire them for their intellectual growth and character building.
- To enable the students to achieve excellence in the chosen fields and to share the responsibilities of citizenship and service in a disciplined manner.

Topics to be covered

- Regression Analysis and Classification.
- Supervised, Unsupervised learning and Statistics for ML, Sequence Modelling
- Fundamentals of Generative AI.
- Hands on with Generative Adversarial Network, NLP.
- Efficiency Unlocked: Save time, do more with Open AI-powered Machine Learning.
- Complete Practical approach to Open AI

Eminent Speakers

1. **Dr. U. V. Kulkarni** *(Chief Guest)*
   Professor, Department of Computer Science & Engineering, SGGS IET, Vishnupuri, Nanded.
2. **Dr. K. M. Sanghavi**
   Associate Professor & Head, Computer E Engineering, SNJBCOE, Nashik.
3. **Dr. Richa K. Makhijani**
   Assistant Professor, Computer Science and & Engineering., IIIT Nagpur.
4. **Dr. Balaji S. Shetty**
   Associate Professor, Information Technology, SGGS IET, Vishnupuri, Nanded.
5. **Dr. Jitendra V. Tembhurne**
   Assistant Professor, Computer Science and & Engineering., IIIT Nagpur.
6. **Dr. M. S. Mahindrakar**
   Assistant Professor, Computer Science and Engg, SGGS IET, Vishnupuri Nanded.
7. **Mr. Tushar B. Kute**
   Sr. Data Scientist, MITU Research, Pune
8. **Dr. Kamini Nalavade**
   Professor & Head, Computer Engineering,SIEM, Nashik.
9. **Mr. M. V. Korde**
   Asst. Professor, Computer Engg., SIEM, Nashik.

Chief Patron

Dr. Sandipkumar Jha
Chairman, Sandip Foundation

Patrons

Prof. Pramod Karole
Academic Facilitator

Prof. Dr. Dipak P. Patil
Principal, SIEM, Nashik

Registration Link:
https://forms.gle/RoL3BwdEXfTvQ6928

Registration Fee: *Nil*

Last date of Registration: ***18th May, 2024***

E-Certificates will be provided only to the participants with 90% attendance.

One Week Online

Faculty Development Program (FDP)

On

"Generative Artificial Intelligence and Machine Learning (GAIML-2024)"

May 21st - 25th , 2024

Organized by

Department of Computer Engineering
Sandip Institute of Engineering & Management
Trimbak Road, Mahirawani,
Nashik-422213, MS, INDIA
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Convener

Prof. Dr. Kamini Nalavade
Head, Computer Engineering, SIEM, Nashik

Coordinators

Ms Snehal P. Dongre
Asst. Professor, Computer Engineering, SIEM, Nashik
Email-*snehal.dongare@siem.org.in*
Contact No-*7385519235*

Mr. Nilesh B. Madke
Asst. Professor, Computer Engineering, SIEM, Nashik
Contact No-*9130039801*
Email- *nilesh.madke@siem.org.in*

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DUTIES AND RESPONSIBILITIES FOR THE INTER DEPARTMENT FACULTY DEVELOPMENT PROGRAMME

Sr No.	Name of Faculty	Duty & Responsibilities
1	**Ms. Snehal Dongre**	**Day 1 coordinator**, Introduction and Vote of Thanks, Google meet links for all days and recording, communication to all participants, Report Preparation
2	**Mr. Nilesh Madke**	**Day 2 Coordinator** Introduction and Vote of Thanks, Feedback link for all days and to be posted on the same day in chat. providing consolidated attendance of FDP to prof. Mahale
3	**Mr. Mahesh Korade**	**Day 3 Coordinator**, Introduction and Vote of Thanks
4	**Mr. Vishal Mahale**	**Day 4 Coordinator**, Introduction and Vote of Thanks, Certificate preparation and Distribution through mail
5	**Dr. Pallavi Baviskar**	**Day 5 Coordinator**, Introduction and Vote of Thanks, Group Photo in online mode, Vote of thanks of FDP
6	**Ms. Neha Hiray**	Capturing photos of sessions of every day and posting on groups, social media and website upload.

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Program Outline: 21st-25th May, 2024

Final Program Schedule

Date	Session	Time	Title/Topics	Resource Person
Day 1: 21/05/2024 (Tuesday)	Inauguration and Welcome Speech	11:00am - 12:00pm	Inauguration and Keynote Talk by Chief Guest	Dr. Kamini Nalavade HoD, Computer Engineering, SIEM, Nashik Dr. U. V. Kulkarni (Chief Guest) Professor, Department of Computer Science & Engineering, SGGS IET, Vishnupuri, Nanded.
	Session 1	12:00pm - 01:30pm	A pragmatic approach to Generative Adversarial Network	Dr Richa K. Makhijani Assistant Professor, IIIT Nagpur.
Day 2: 22/05/2024 (Wednesday)	Session 1	11:00am - 12:30pm	Efficiency Unlocked: Save time, do more with Open AI-powered Machine Learning Complete Practical approach to Open AI	Dr. Balaji S. Shetty Associate Professor, Information Technology, SGGS IET, Vishnupuri, Nanded
Day 3: 23/05/2024 (Thursday)	Session 1	11:00am - 12:30pm	GAI: Introduction to and Fundamentals of Generative AI and Tools	Dr. K. M. Sanghavi Associate Professor & Head, Computer Engineering, SNJBCOE, Nashik

Report Prepared By-Ms Snehal P. Dongre, Asst. Professor, Dept. of Computer Engineering *on* 07th June 2024.

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Day 4: 24/05/2024 (Friday)	**Session 1**	**11:00am - 12:30pm**	**Deep Learning for Healthcare using CNN, Sequence Modelling using RNN**	**Dr. Jitendra V. Tembhurne** Assistant Professor, Computer Science and & Engineering., IIIT Nagpur.
	Session 2	**02:00pm - 03:30pm**	**Natural Language Processing NLP**	**Mr. Tushar B. Kute** Sr. Data Scientist, MITU Research, Pune
Day 5: 25/05/2024 (Saturday)	**Session 1**	**11:00am - 12:30pm**	**Supervised Learning: Classification and Regression**	**Dr. M. S. Mahindrakar** Assistant Professor, Information Technology, SGGS IET, Vishnupuri, Nanded.
	Session 2	**12:30pm 01:00pm**	**Valedictory**	**Dr. Dipak Patil** Principal SIEM, Nashik. **Dr. Mousam Sangole** Dean Academics, SIEM, Nashik

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DAY WISE EVENTS OF FACULTY DEVELOPMENT PROGRAMME:

Day 1-(21/05/2024): Inauguration Event

The programme was hosted by FDP Coordinator Ms Snehal P. Dongre, Asst. Professor. Chief Guest, Principal, Resource Persons, Convener, HoDs, Faculty members and all participants were welcomed with floral presentation. Ms Snehal P. Dongre started her introductory speech by introducing Chief Guest of the program **Dr. U. V. Kulkarni** and also introduced the all eminent speakers.

Dr Dipak. P. Patil, Principal greeted the chief guest and other faculty in two day faculty development program. Next, **Dr Kamini Nalavade, Hod, Dept. of Computer Engineering** and **Convener of FDP** explained the motivation and importance of the FDP organized and also discussed the complete schedule of the program to the participants

After that **Dr. U. V. Kulkarni** delivered his keynote session where he had discussed research oriented and career advancements guidance and skills with his excellency. In his talk he had very beautifully explained to the participants about how to choose career path in the selected domain and also explained the complete process to be followed for their career and technological advancements. Sir had very effectively explained the architecture model of Convolutional Neural Network (CNN) and guided complete flow to classification model in a very simple and effective way.

Day 2 - (21/05/2024):

Day 1 session 2 was taken by **Dr. Richa K. Makhijani,** Assistant Professor, Department of Computer Science & Engineering, at IIIT Nagpur. She delivered her expertise on topic **'Generative Adversarial Network'.** Madam had explained everything about generative adversarial network inculcating with ChatGPT and its tools in a very simple and interesting way.

Day 2 - (22/05/2024):

The Keynote speaker of day two **Mr Tushar B. Kute, Sr. Data Scientist, MITU Research, Pune**

delivered his session on **'Natural Language Processing'** where he explained the complete process to follow in NLP in a very beautiful way. He started with introducing the concept of Artificial Intelligence and its major approaches. In his talk he explained about branches of Artificial Intelligence, Natural Language Processing, phases of NLP, concept of lexical analysis, NLP implementation, various NLP steps, he also discussed how to remove stop words, stemming, Lemmatization. He very beautifully explained Industrial strengths to NLP, NLP technological stack, Importance of Deep Learning and applications of AI. He also took hands on session on Text classification using various Machine Learning tools.

Day 3 - (23/05/2024):

The Keynote speaker of day Three **Dr K. M. Sanghavi, Associate Professor & Head,** Computer Engineering, SNJBCOE, Nashik emphasized on the concept **of 'Generative Artificial Intelligence'.** In her talk she had explained top Generative AI Tools like ChatGPT,Gemini, D-ID,UberDuck, ChatFlash,Notion AI, Claude and also explained how to use these tools. She further explained the types of Generative models.

Day 4 - (24/05/2024): Session 1

Day 4: Session 1 Resorce speaker, **Dr. Jitendra V. Tembhurne, Assistant Professor,** Department of Computer Science & Engineering, Indian Institute of Information Technology, Nagpur, MS, India delivered his talk on topic **'Deep Learning for Healthcare using CNN'**. He started his session by discussing problems in Neural Network and also explained Deep Learning, Application domains of Convolutional Neural Network, Sir had explained how to build deep models in a very beautiful and effective way.

Day 4 - (24/05/2024): Session 2

The Day 4: Session 2 was lead by resource speaker **Dr. Balaji S. Shetty, Associate Professor,** Information Technology, SGGS IET, Vishnupuri, Nanded, MS. India delivered his expertise on **'Efficiency Unlocked: Save time, do more with Open AI-powered Machine Learning -a practical**

approach to AI Automation'. In his talk he discussed on various Open AI and chatGPT AI tools to create a dynamic website using the tools in a very beautiful and effective way. He also took hands on session using ChatGPT tool and explained a systematic way to create a website using various Machine Learning python libraries.

Day 5 - (25/05/2024):

The resource speaker of day 5 **Dr. M. S. Mahindrakar, Assistant Professor,** Computer Science & Engineering, SGGS IET, Vishnupuri, Nanded delivered her expertise on **'Supervised learning: Classification and Regression'.** She discussed on basic concepts and importance to regression and analysis in a very beautiful and effective way. In her session she explained the concept of concept of soft computing tools, Residual analysis, she also showed. how to draw conclusion matrix and Sensitivity and Specificity.

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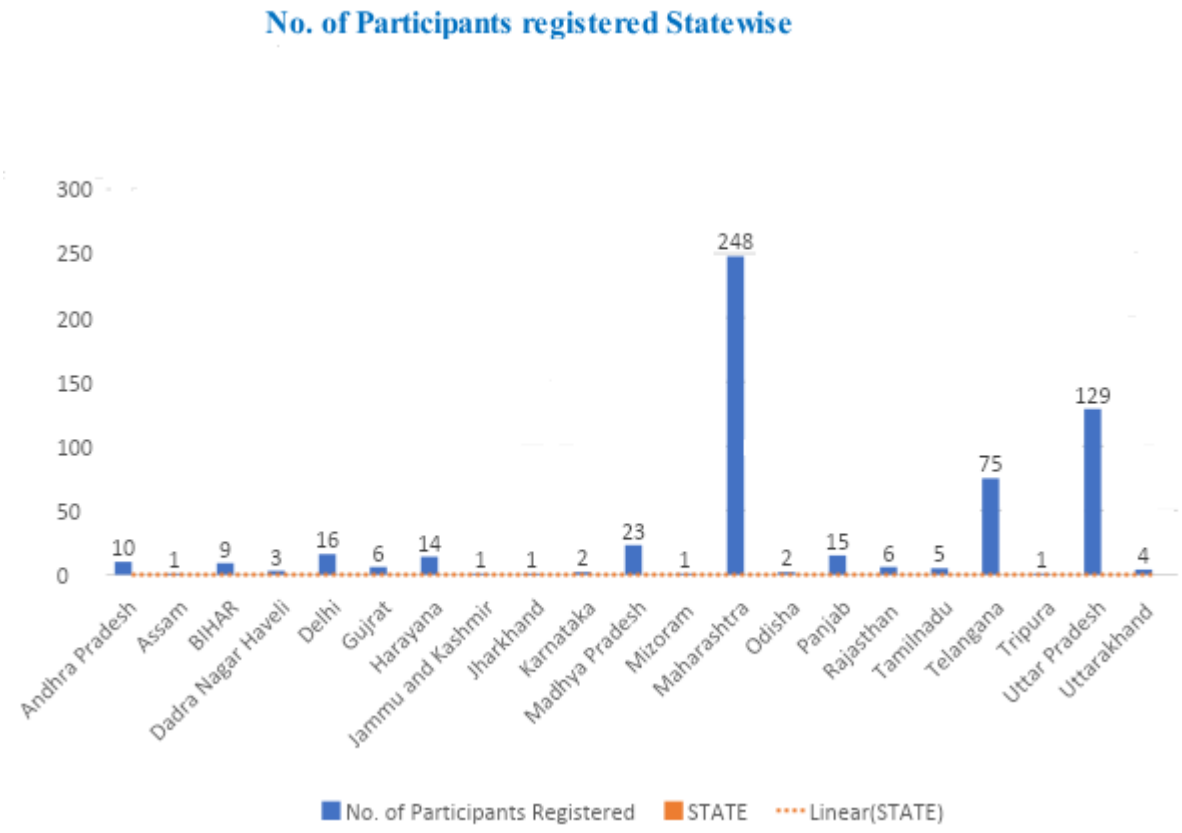
FDP SUMMARY:

The Five Day Faculty Development Program **(FDP)** on **'Generative Artificial Intelligence and Machine Learning'** completed successfully. There was total **572** participants from across various parts of India registered for the program and more than **260** participants were successfully attended and received participation certificate.



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PICTORIAL GLIMPSE OF FACULTY DEVELOPMENT PROGRAMME

Day 1 Session 1

Chief Guest: Dr. U. V. Kulkarni

Professor, Department of Computer Science & Engineering, SGGS IET, Vishnupuri, Nanded.

Topic: Research Oriented Career advancements guidance and skills

Time: 11:12 Noon

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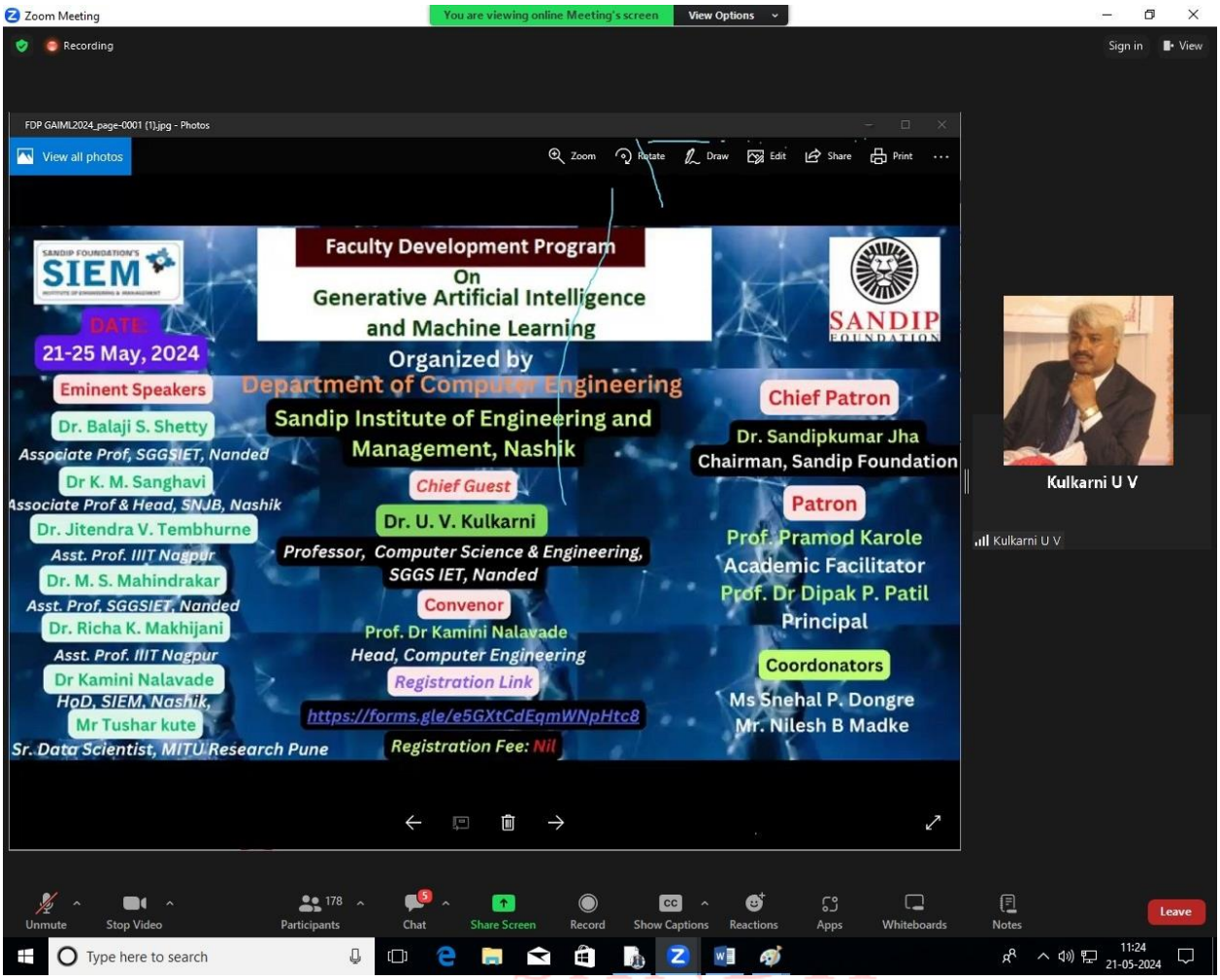

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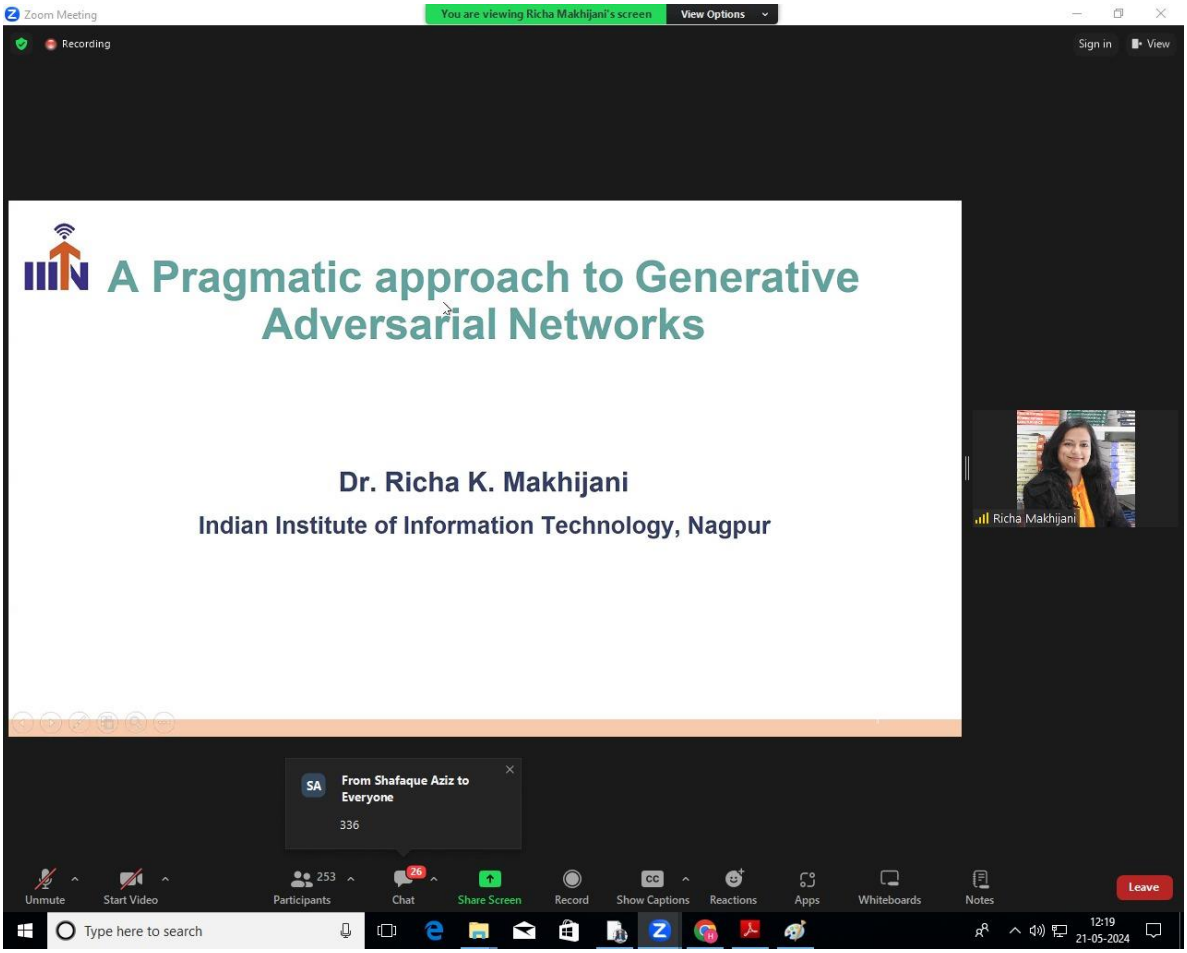
Day 1 -Session 2

Speaker Name: Dr. Richa K. Makhijani

Assistant Professor, Department of Computer Science & Engineering ,IIIT Nagpur.

Topic: Generative Adversarial Network

Time: 12:00 Noon onwards



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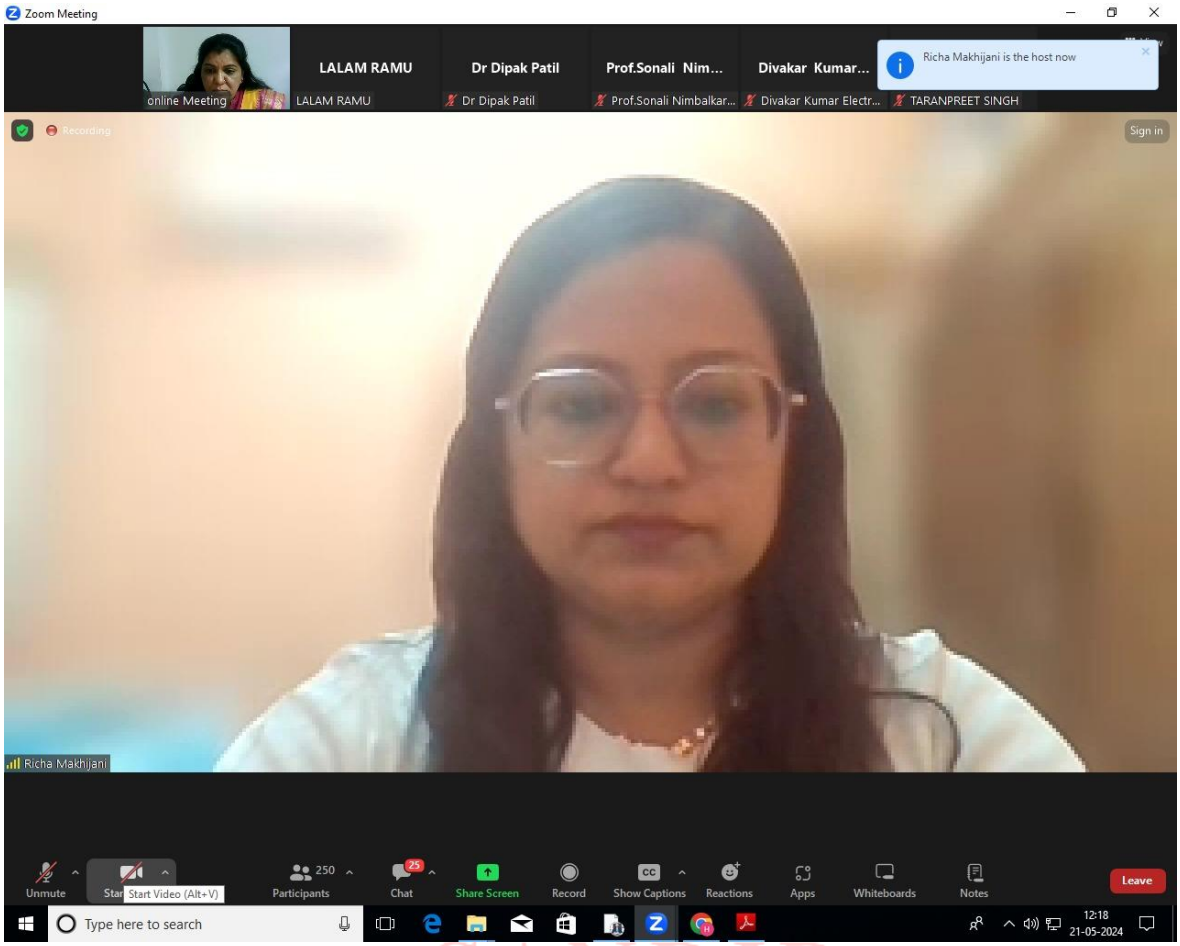

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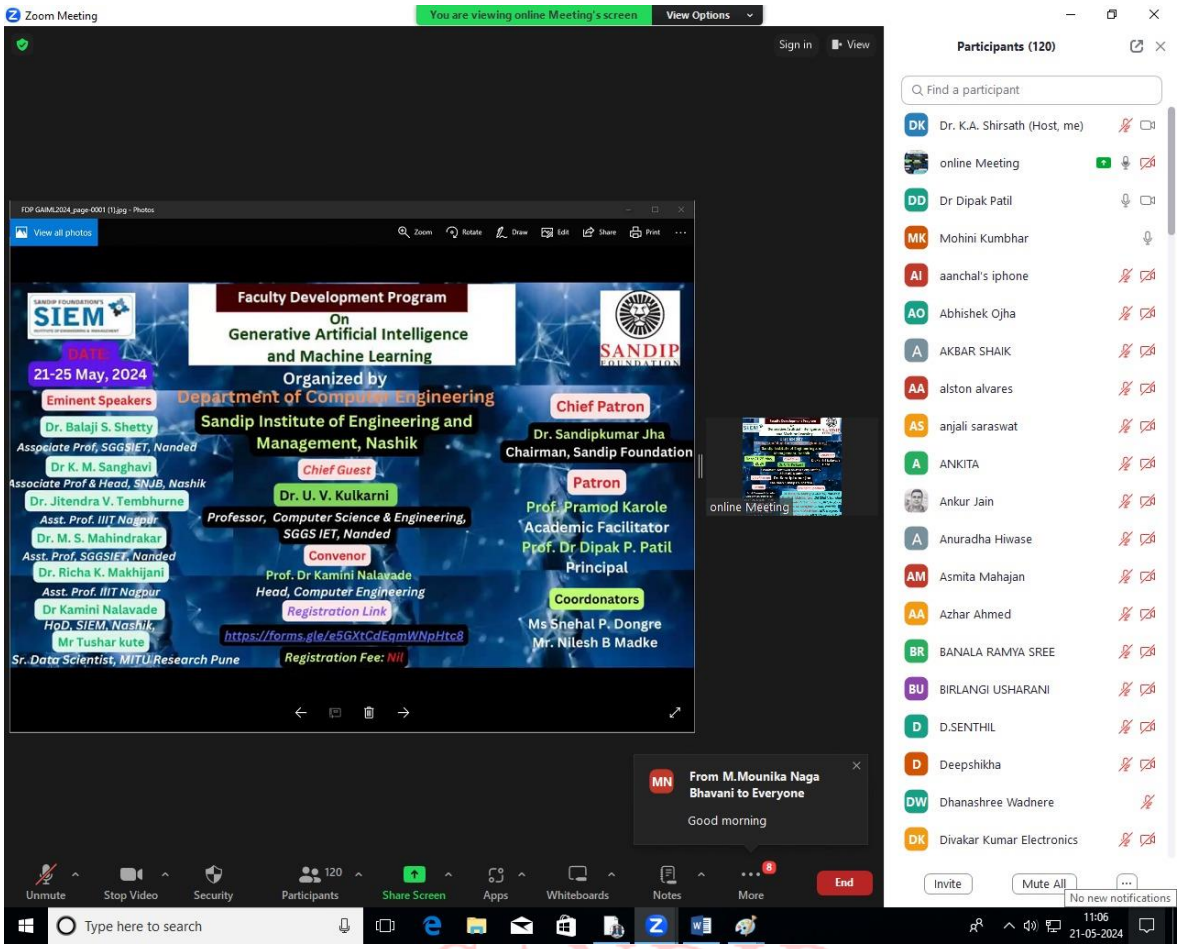

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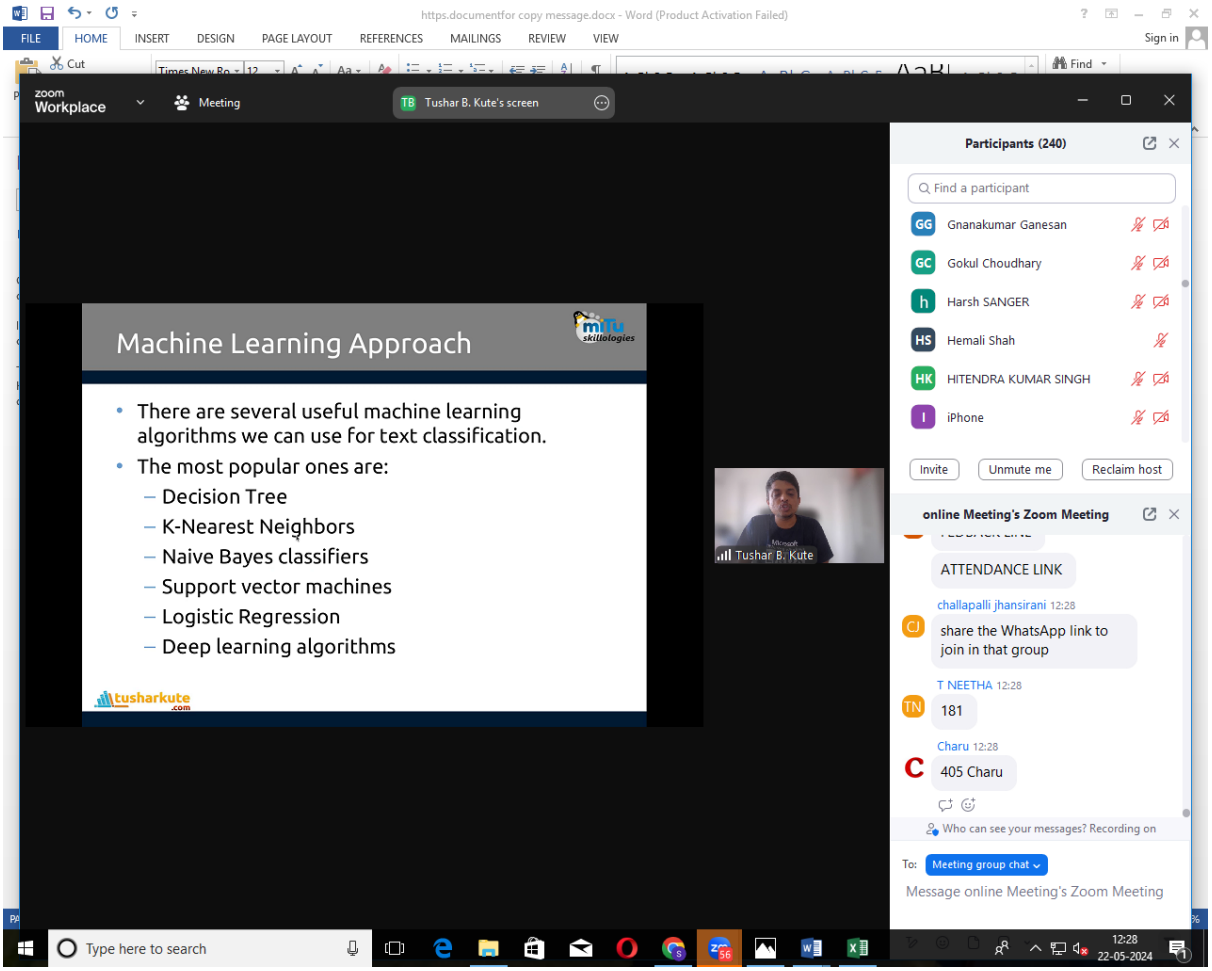
Day-2 : Session 1

Speaker Name: Mr Tushar B. Kute

Sr. Data Scientist, MITU Research, Pune

Topic: Natural Language Processing

Time: 11:00am- 12:30 pm



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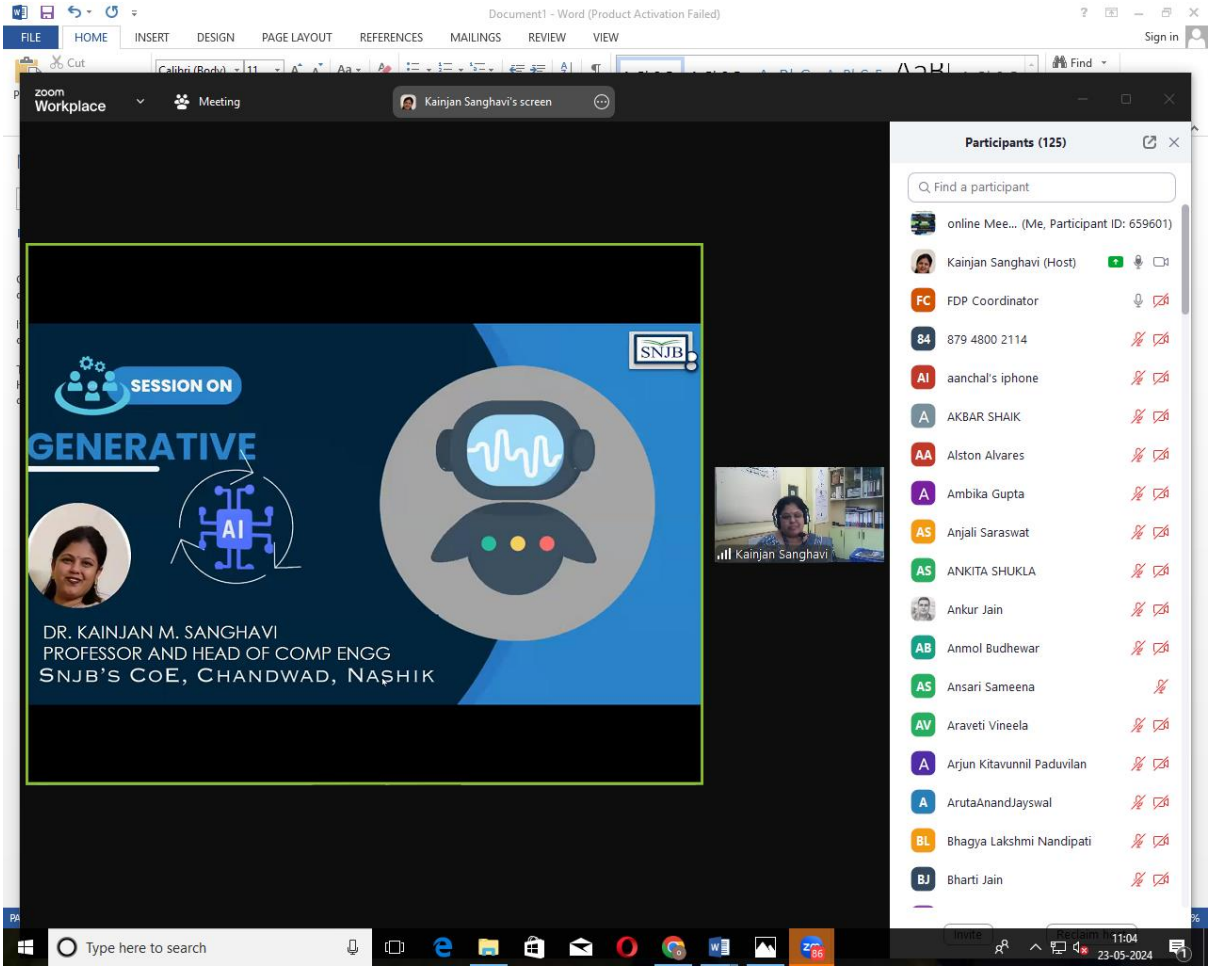
Day-3: Session 1

Speaker Name: Dr K. M. Sanghavi

Associate Professor & Head, Computer Engineering, SNJBCOE, Nashik

Topic: Generative Artificial Intelligence

Time: 11:00am- 12:30 pm



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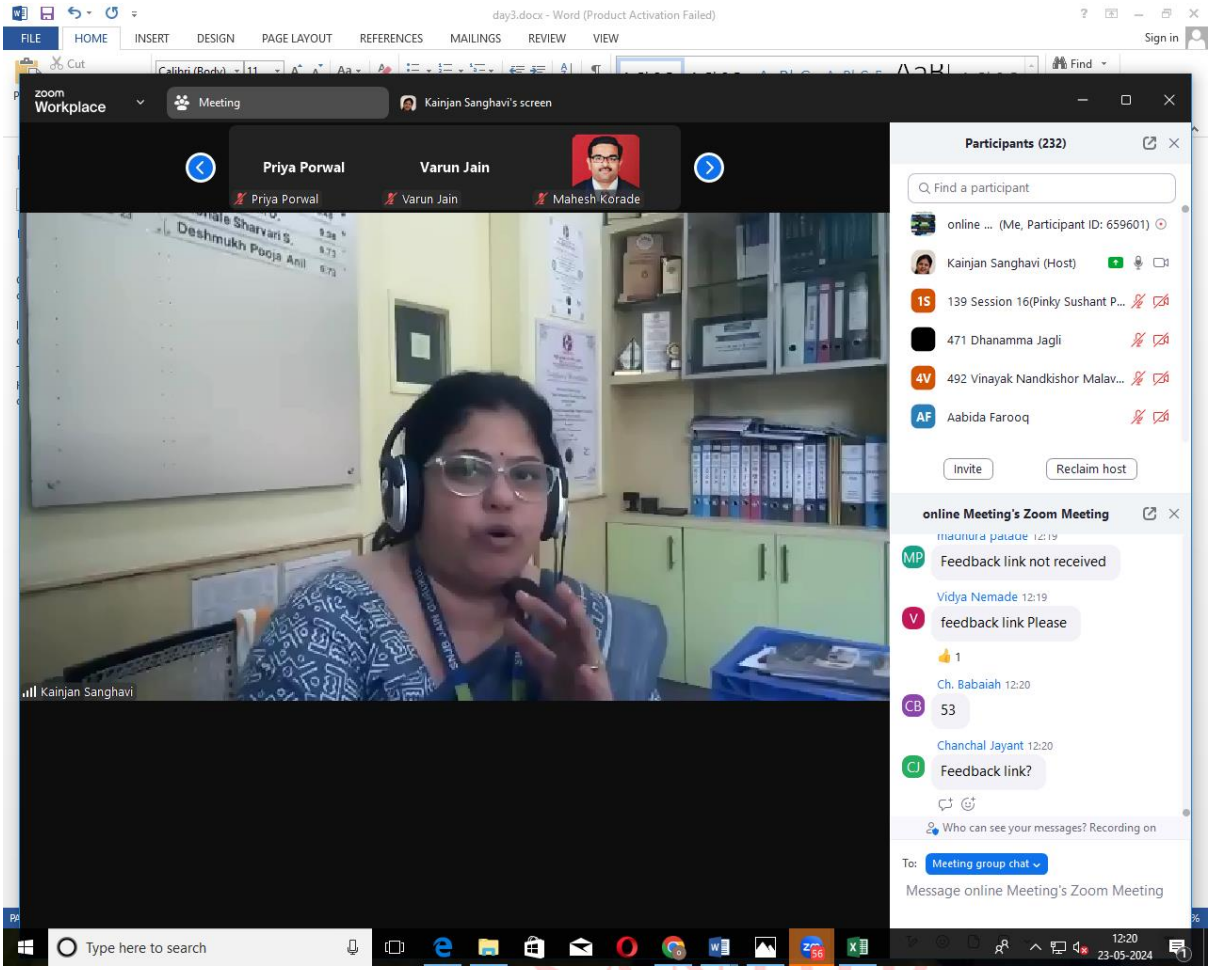

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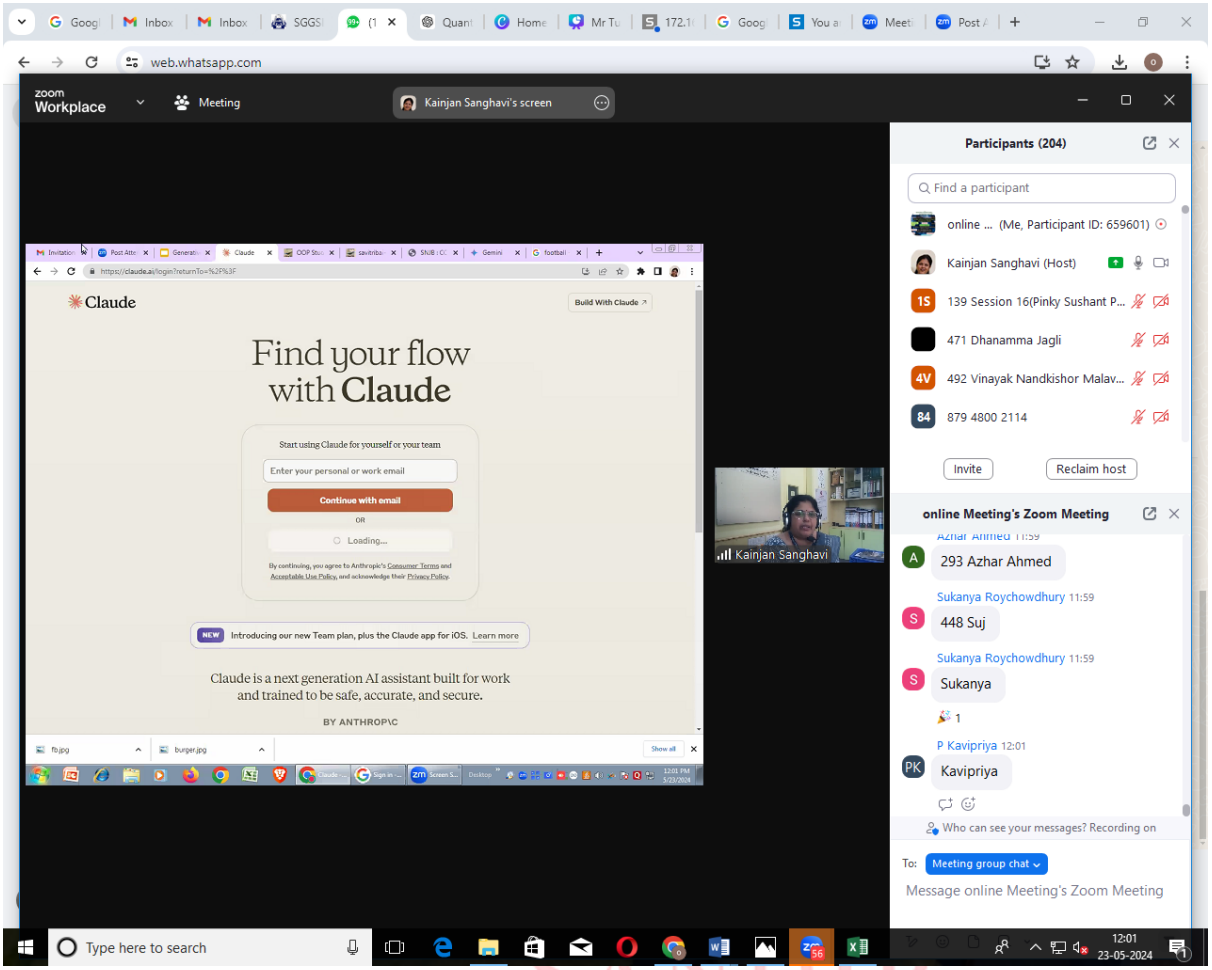

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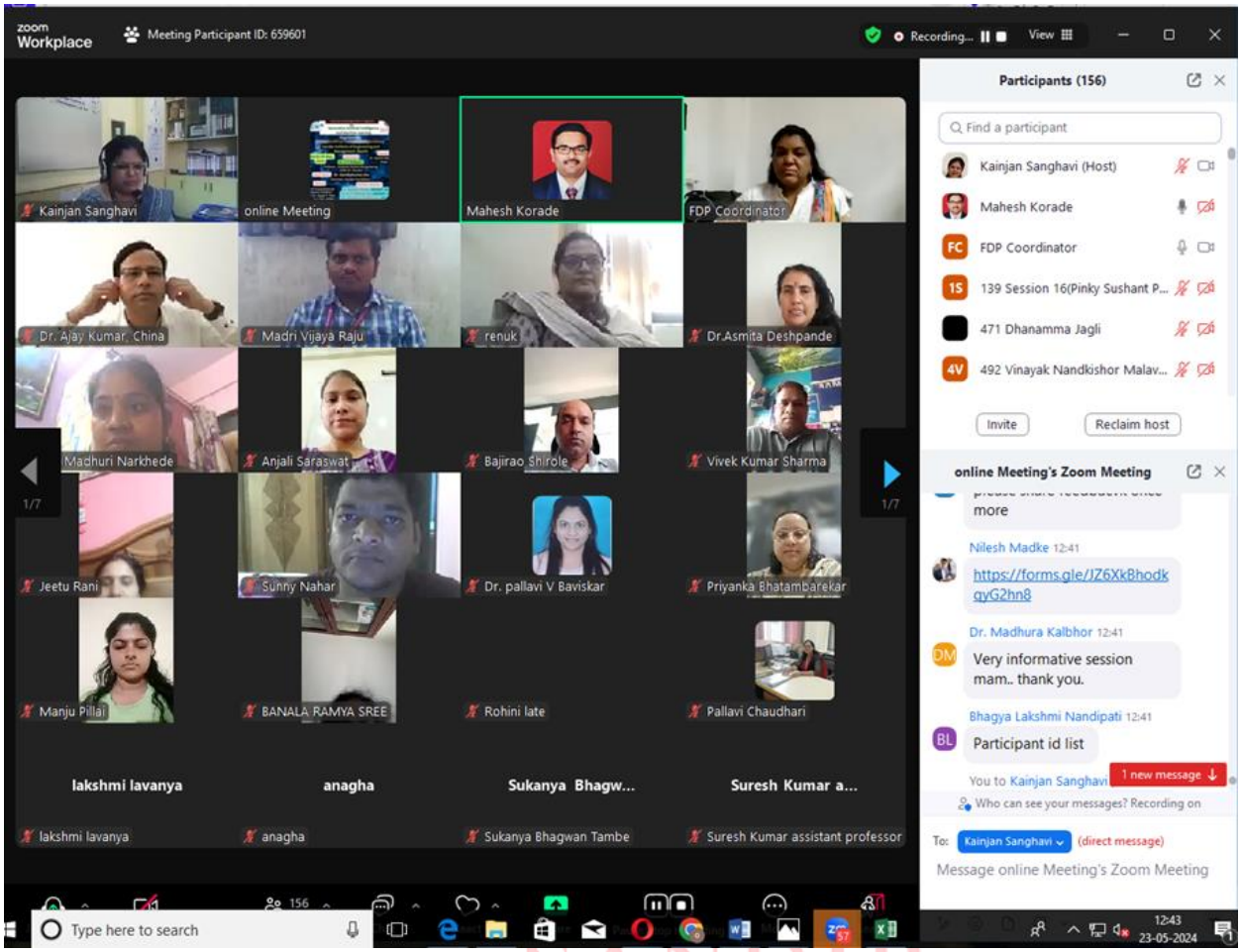

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Mahiravani, Trimbak Road, Nashik-422213

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Day-4: Session 1

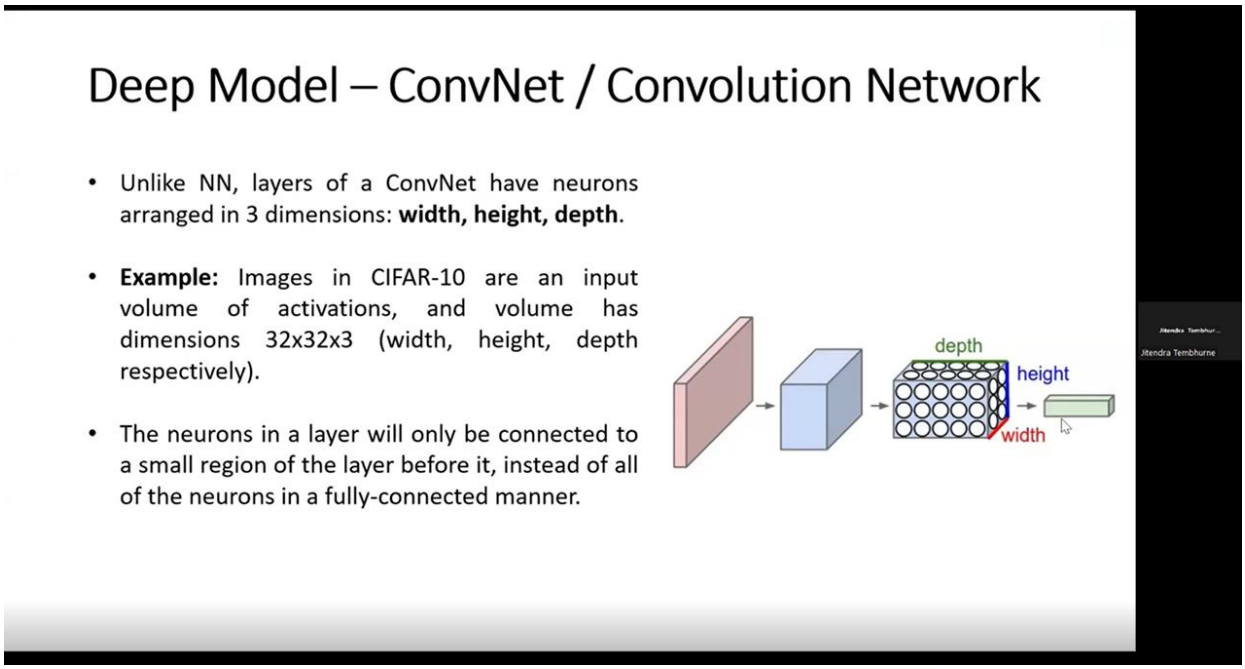
Speaker Name: Dr. Jitendra V. Tembhurne

Assistant Professor, Department of Computer Science & Engineering,

Indian Institute of Information Technology, Nagpur, MS, India

Topic: Deep Learning for Healthcare using CNN

Time: 11:00am- 12:30 pm



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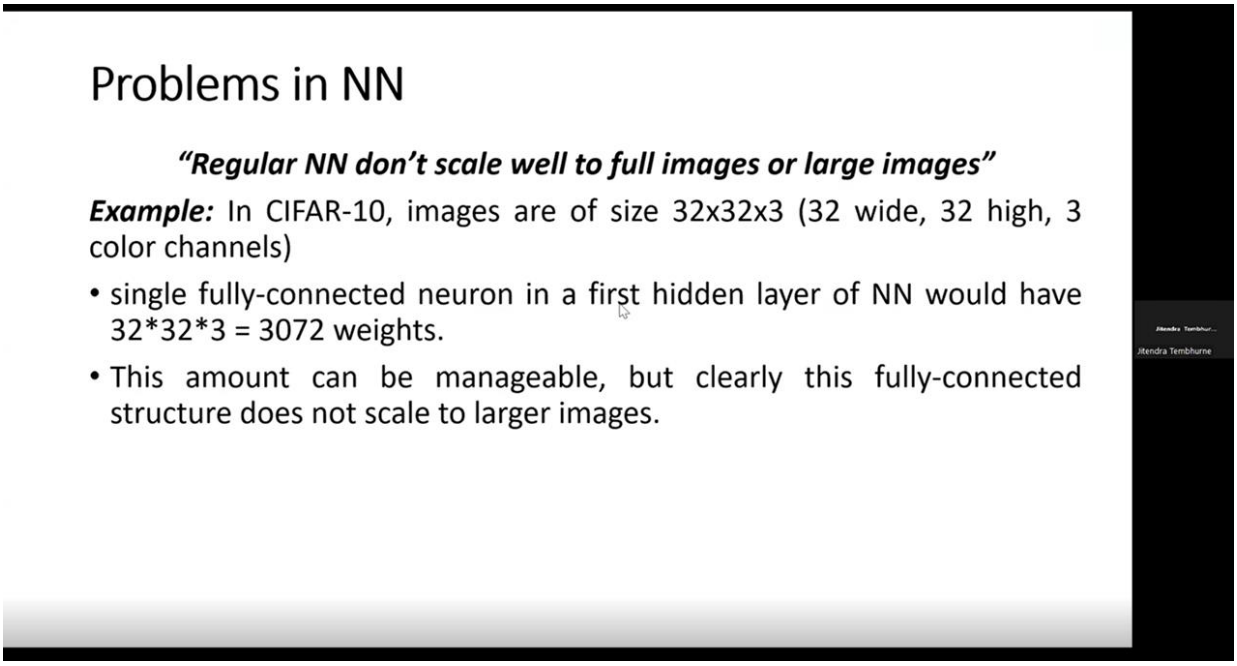

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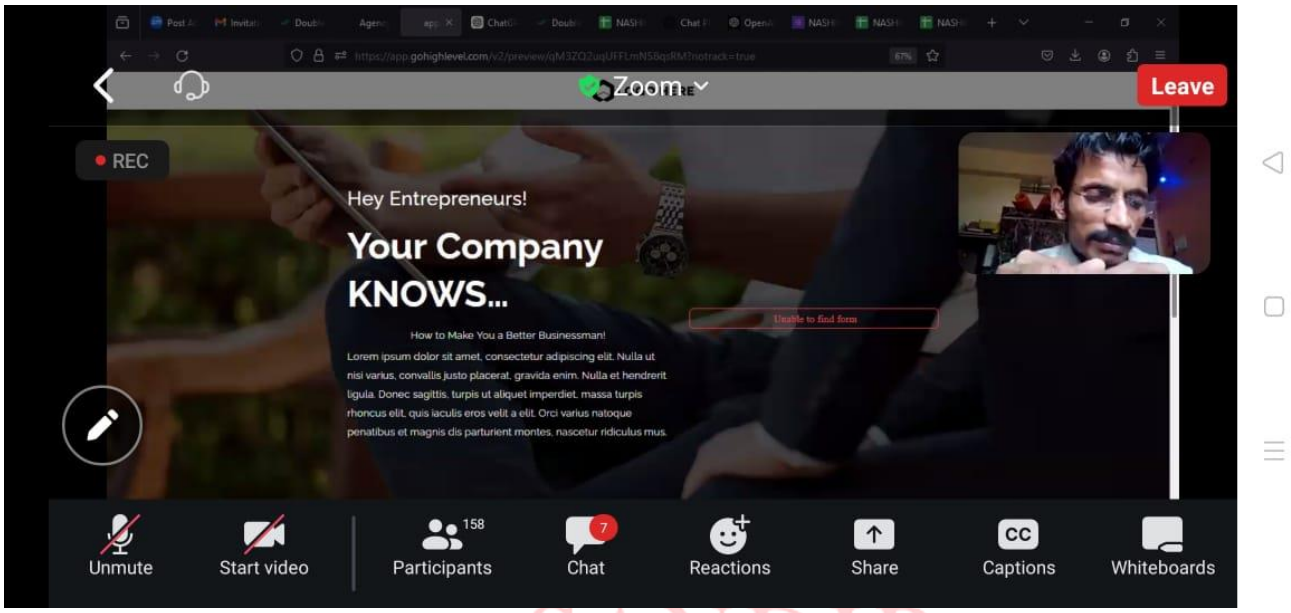
Day-4: Session 2

Speaker Name: Dr. Balaji S. Shetty

Associate Professor, Information Technology, SGGS IET, Vishnupuri, Nanded, MS. India

Topic: Efficiency Unlocked: Save time, do more with Open AI-powered Machine Learning -a practical approach to AI Automation

Time: 02:00pm – Onwards



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Report Prepared By-Ms Snehal P. Dongre, Asst. Professor, Dept. of Computer Engineering *on* 07th June 2024.

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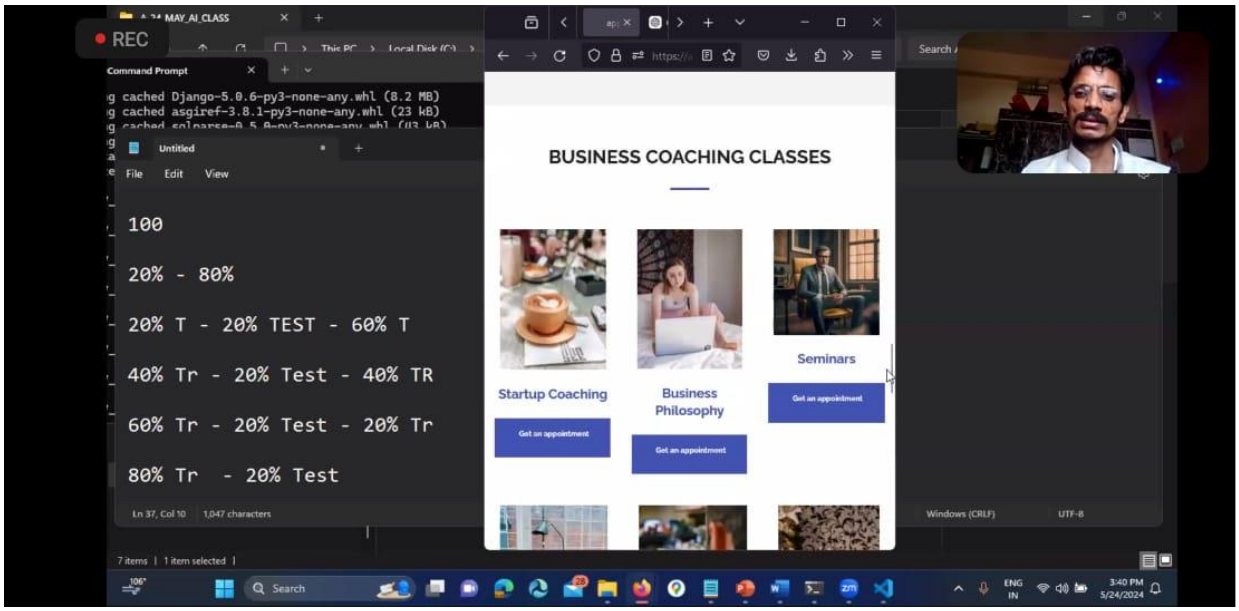

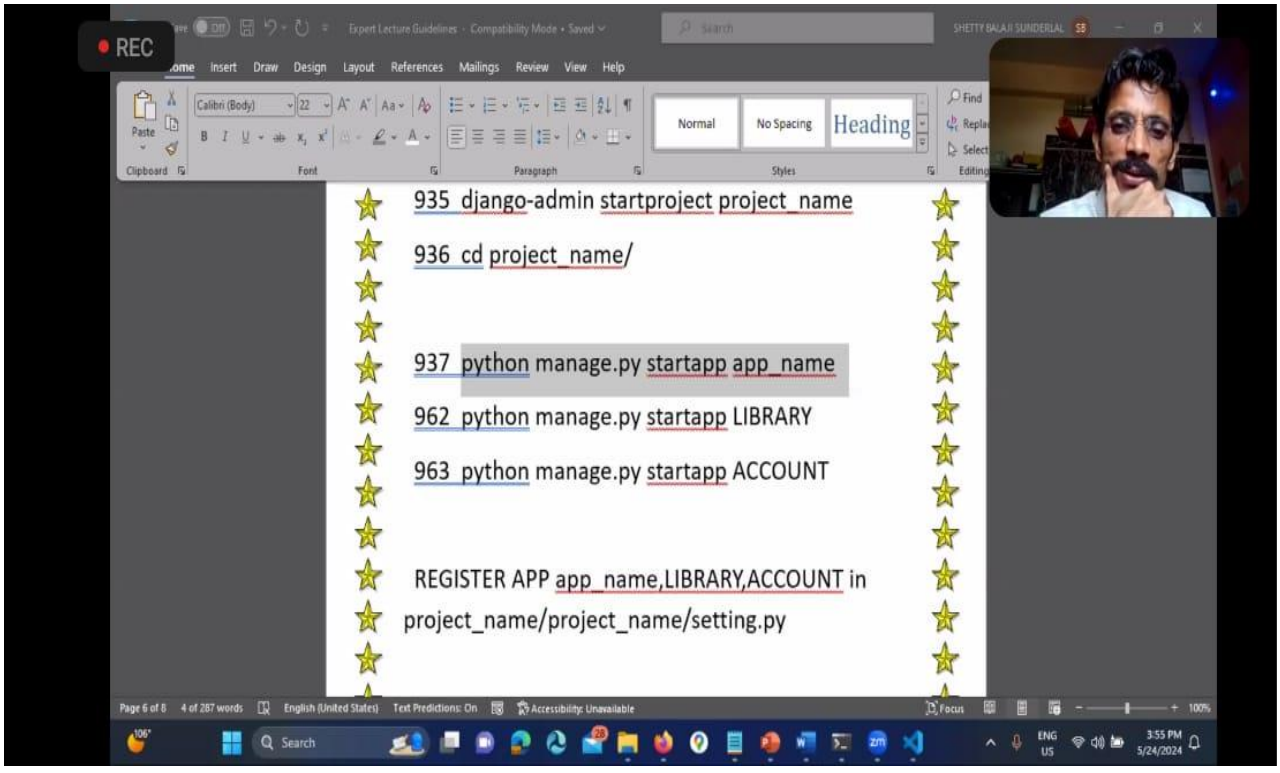

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Day-5:

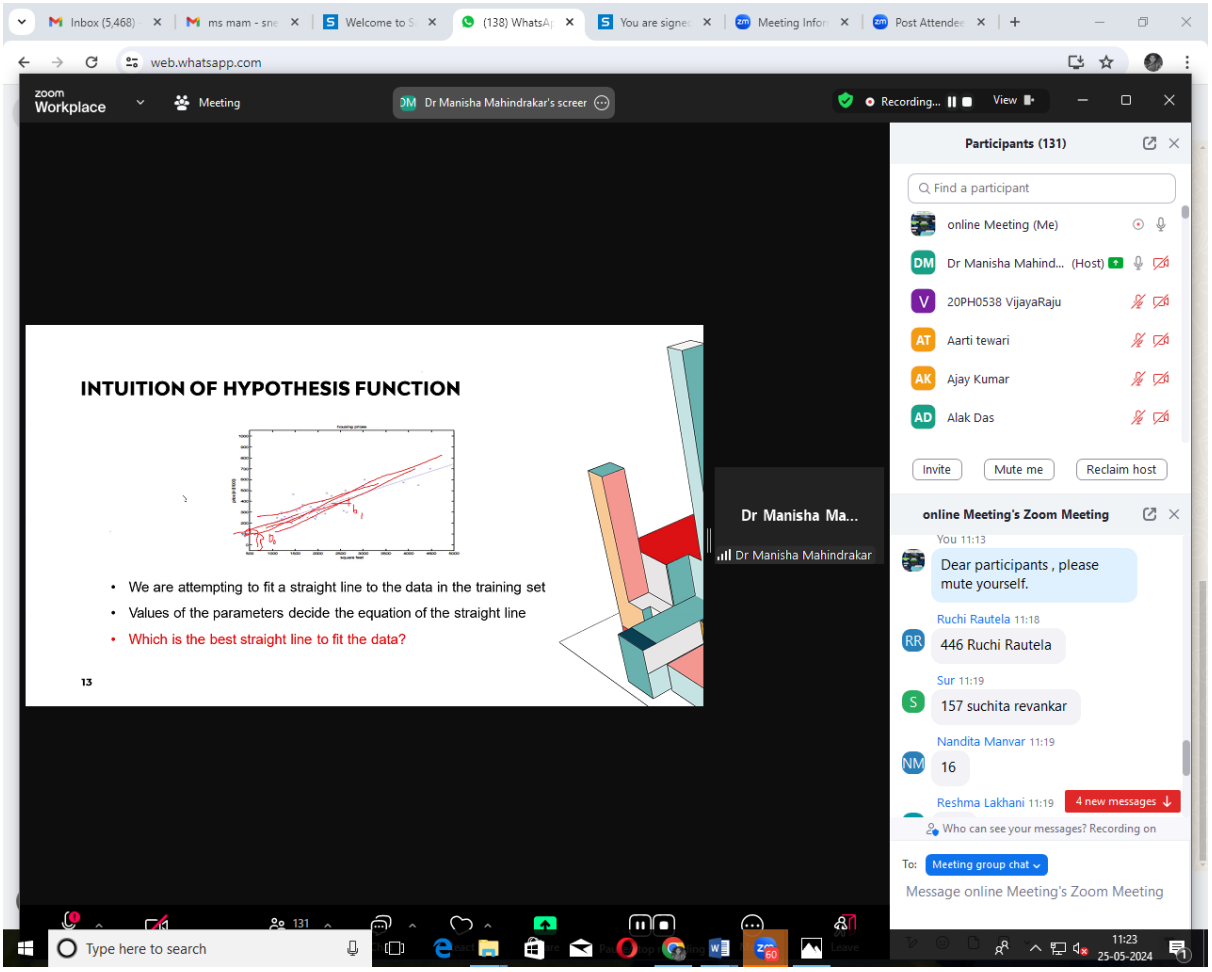
Day-4: Session 1

Speaker Name: Dr. M. S. Mahindrakar

Assistant Professor, Computer Science & Engineering, SGGS IET, Vishnupuri, Nanded.

Topic: Supervised learning: Classification and Regression

Time: 11:00am- 12:30 pm



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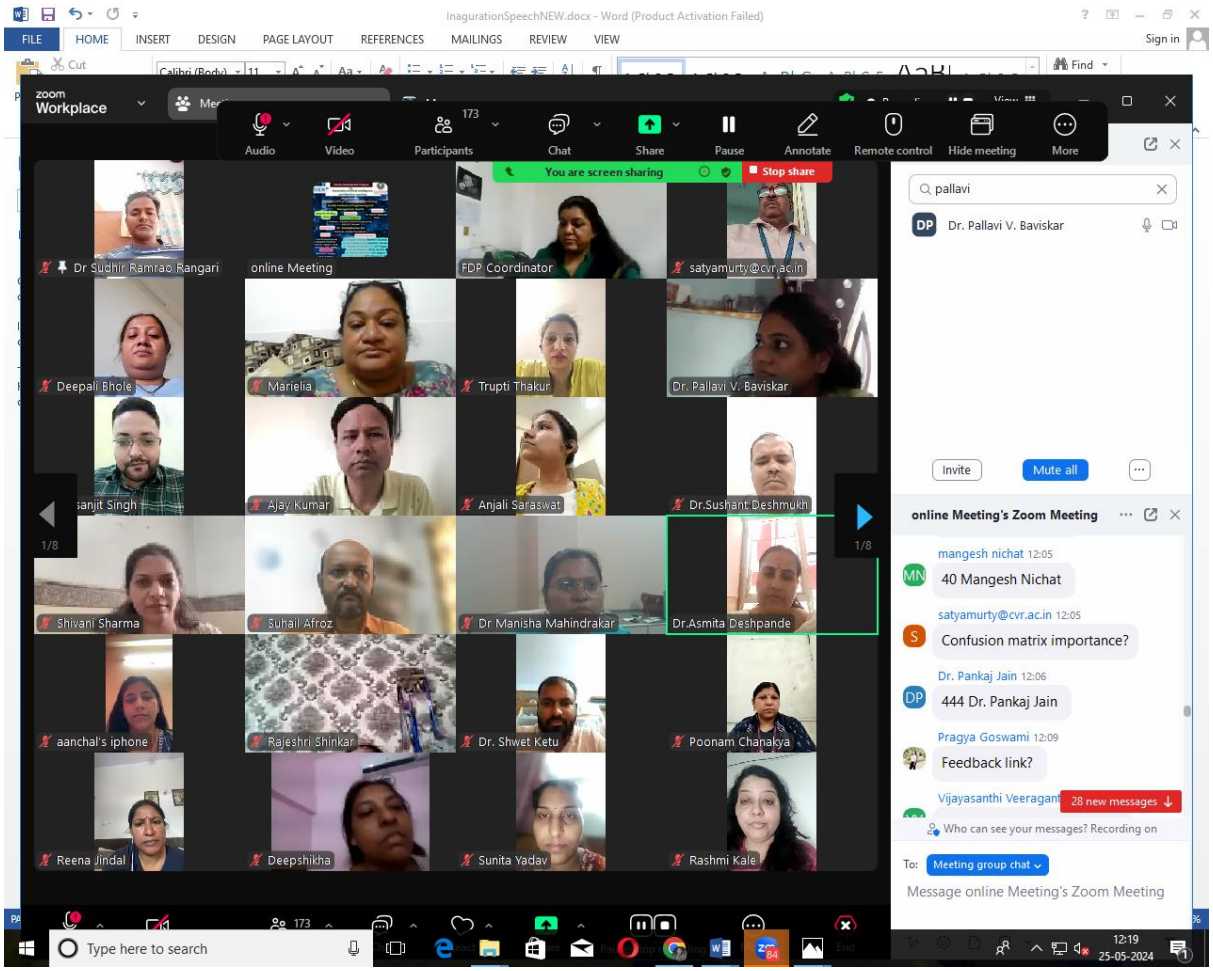
Day-5: Valedictory Session

Time: 12:30 pm – 01:00 pm



Report Prepared By-Ms Snehal P. Dongre, Asst. Professor, Dept. of Computer Engineering *on* 07th June 2024.

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FDP Participation Certificate

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This is to certify that

Mr. Isharat Ali

attended one week faculty development program on "Generative Artificial Intelligence and Machine Learning" held between 21/05/2024 to 25/05/2024 organized by Computer Engineering Department, Sandip Institute of Engineering and Management, Nashik.

Prof S. P. Dongre & Prof N. B. Madke
FDP Co-Ordinator
Computer Engg, SIEM

Dr. K. C. Nalawade
HOD Computer
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Dr. D. P. Patil
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Department of Computer Engineering

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Dr. Minal Atul Sarode

attended one week faculty development program on "Generative Artificial Intelligence and Machine Learning" held between 21/05/2024 to 25/05/2024 organized by Computer Engineering Department, Sandip Institute of Engineering and Management, Nashik.

Prof S. P. Dongre & Prof N. B. Madke
FDP Co-Ordinator
Computer Engg, SIEM

Dr. K. C. Nalawade
HOD Computer
SIEM

Dr. D. P. Patil
Principal
SIEM

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Report Prepared By-Ms Snehal P. Dongre, Asst. Professor, Dept. of Computer Engineering *on* 07th June 2024.

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Department of Computer Engineering

Certificate Of Participation

This is to certify that

Mr. G Bhaskar Phani Ram

attended one week faculty development program on "Generative Artificial Intelligence and Machine Learning" held between 21/05/2024 to 25/05/2024 organized by Computer Engineering Department, Sandip Institute of Engineering and Management, Nashik.

Prof S. P. Dongre & Prof N. B. Madke
FDP Co-Ordinator
Computer Engg, SIEM

Dr. K. C. Nalawade
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