

A

Report

on

AICTE-ISTE one week online refresher program on

“Applications of Artificial Intelligence Using Machine Learning & Deep Learning”



(18-24 December 2021)


PRINCIPAL

Poornima Institute of Engineering
& Technology
ISI-2, RIICO Institutional Area
Goner Road, Sitapura Jaipur-302022

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**Poornima Institute of Engineering
& Technology 2**
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Goner Road, Sitapura Jaipur-302022

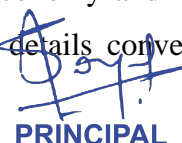
OVERVIEW

AICTE-ISTE one week online refresher program on “Applications of Artificial Intelligence Using Machine Learning & Deep Learning” organized at Poornima Institute of Engineering & Technology, Jaipur, Rajasthan, India from 18-24, December 2021.

This refresher program has shown the trends to deploy to developing intelligence in all the domains of Intelligence viz Machine Learning, Deep learning. The current scenario of IT has taken over the complete technology market in all disciplines Engineering, whether it Infrastructure (Civil Engineering), Machines & Automobile (Mechanical Engineering), Power & Energy (Electrical Engineering), Communication & Devices (Electronics & communication) or IT based Applications & services (Computer Engineering & IT), especially with the emergence of AI, Machine Learning & Deep Learning. This program obtained academic & research contributions of experts working in the domain of providing Intelligence to their machines & systems. The objective of this refresher program is to provide opportunities for the Researchers, Academicians, and Industry persons to express and communicate data, skill and proficiency in the recent development and strategies with respect to the Artificial Intelligence, Machine learning & Deep Learning.

Institutional Profile

Poornima Institute of Engineering and Technology, Jaipur (PIET), is one of the premier institutions in engineering education in Rajasthan and is affiliated to Rajasthan Technical University and approved by AICTE. Shanti Education Society established in year 1999, initiated Poornima Group with student strength of 180 has now become best destination for Technical Education in Rajasthan. During its journey of 19 years Poornima Group has developed 4 institutions of repute and has grown to the size of 8000 students. Poornima Group institutions are known for excellent placements, consistent university results; 360-degree development of students. The society, governs three AICTE approved & RTU affiliated college and one University approved by UGC. PIET, is one of the premier institutions in engineering education in Rajasthan, established in the academic year 2007, is affiliated to Rajasthan Technical University and approved by AICTE. PIET is accredited by National Assessment and Accreditation Council (NAAC). Two of its programs namely B.Tech in Computer Engineering and B.Tech in Civil Engineering are accredited by National Board of Accreditation (NBA), India for the quality education. PIET has been ranked 3rd among all RTU affiliated colleges in Quality Index Value (QIV) assessment in academic year 2020-21. PIET has been rated as GOLD in Survey of Industry Linked Technical Institutes conducted by AICTE-CII. The management makes sustained efforts to use education as an instrument for growth of economy and is the driving force & inspirational spirit behind the establishment of PIET. The following details convey its journey of progress and benchmarking in quality education.



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PIET Achievements & Highlights

- State of Art of Infrastructure for innovative Teaching Pedagogy and ICT based learning.
- Ranked 3rd by Rajasthan Technical University under Quality Index Value Framework.
- Accredited with NBA for B.Tech CSE 2020. • Accredited with NBA for B.Tech Civil in 2019.
- NAAC Accredited institute from 2019.
- Notable funding received from various Government and Private bodies (AICTE, RTU, IIHT, IMPACT, ZEETRON NETWORKS)
- Regular and quality placements in all Major MNC are like Infosys, Capgemini. IBM, Adani, etc. with more than 91% eligible students getting placed in house every year.
- Industry oriented labs for quality education IBM, Oracle, Celebal Technologies, RapidOs, Wipro, FACE, Redhat, CESA etc., Faculty Felicitation & Reward system and similar systems for students, Concerned for Environment & sustainability, Waste Management, Rain Water Harvesting and Facilities for Sports, Gymnasium, Cultural Activities, Auditorium
- IDEA lab with a huge funding of Rs. 55 Lakhs from AICTE. Only 1 Institute across Rajasthan to achieve this 4.0 Hi tech lab.

About the Department

The Department of Computer Engineering is one of the finest and most diverse departments in the Poornima Foundation as well as in the Rajasthan Technological University, Kota. We offer the B.Tech in Computer Engineering since year 2007. Department has been accredited by National Board of Accreditation (NBA) and it is now in elite list of departments in India which has got this accreditation. The department of Computer Engineering offers B.Tech degree course with an approved intake of 180 students per year. Department makes the student industry ready with all practical experience by introducing new technology Machine learning, Data Science, Salesforce. Department has Huge Alumni base of more than 900 Alumni currently working with MNC's and Government Institutions.



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Banner

AICTE-ISTE
ONE WEEK ONLINE REFRESHER PROGRAMME
 on
APPLICATIONS OF ARTIFICIAL INTELLIGENCE
USING MACHINE LEARNING & DEEP LEARNING

December 18-24, 2021

Sponsored by

Organized by:
 Department of Computer Engineering

POORNIMA
 INSTITUTE OF ENGINEERING & TECHNOLOGY

Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NAAC and NBA

Brochure

<p>COORDINATOR Prof (Dr) Dinesh Goyal Principal Poornima Institute of Engineering & Technology</p> <p>CO-COORDINATOR Dr. Rekha Jain Professor Poornima Institute of Engineering & Technology</p> <p>Convener Mr Deepak Moud HOD, Computer Science & Engineering Poornima Institute of Engineering & Technology</p> <p>PIET ORGANIZING COMMITTEE</p> <table border="0"> <tr> <td>Mr. Sandeep Tuli</td> <td>Assistant Professor</td> </tr> <tr> <td>Ms Pooja Sharma</td> <td>Assistant Professor</td> </tr> <tr> <td>Ms Mamta Sakpal</td> <td>Assistant Professor</td> </tr> <tr> <td>Ms Muskan Kumari</td> <td>Assistant Professor</td> </tr> <tr> <td>Mr. Deepak Saini</td> <td>Technical Assistant</td> </tr> <tr> <td>Mr Himanshu Pareek</td> <td>Technical Assistant</td> </tr> </table>	Mr. Sandeep Tuli	Assistant Professor	Ms Pooja Sharma	Assistant Professor	Ms Mamta Sakpal	Assistant Professor	Ms Muskan Kumari	Assistant Professor	Mr. Deepak Saini	Technical Assistant	Mr Himanshu Pareek	Technical Assistant	<p>CONTACT FOR FURTHER INFORMATION</p> <p>Dr. Dinesh Goyal Coordinator FDP (AICTE-ISTE) ☎ : +91-9887678379 E-Mail: dinesh.goyal@poornima.org</p> <p>Dr. Rekha Jain Co-Coordinator FDP (AICTE-ISTE) ☎ : +91-9887147519 E-Mail: rekha.jain@poornima.org</p> <p>POORNIMA INSTITUTE OF ENGINEERING & TECHNOLOGY ISI-2, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan 302022 www.piet.poornima.org</p>	<p style="text-align: center;">AICTE-ISTE ONE WEEK ONLINE REFRESHER PROGRAMME on APPLICATIONS OF ARTIFICIAL INTELLIGENCE USING MACHINE LEARNING & DEEP LEARNING</p> <p style="text-align: center;">December 18-24, 2021</p> <p style="text-align: center;">Sponsored by</p> <p style="text-align: center;">Organized by: Department of Computer Engineering</p> <p style="text-align: center;">POORNIMA INSTITUTE OF ENGINEERING & TECHNOLOGY</p> <p style="text-align: center;">Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NAAC and NBA</p> <p style="text-align: right;">PRINCIPAL</p>
Mr. Sandeep Tuli	Assistant Professor													
Ms Pooja Sharma	Assistant Professor													
Ms Mamta Sakpal	Assistant Professor													
Ms Muskan Kumari	Assistant Professor													
Mr. Deepak Saini	Technical Assistant													
Mr Himanshu Pareek	Technical Assistant													

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THE INSTITUTION

Poornima Institute of Engineering & Technology (PIET), Jaipur, affiliated to Rajasthan Technical University and approved by AICTE, established in the academic year 2007. The management makes sustained efforts to use education as an instrument for growth of economy and is the driving force & inspirational spirit behind the establishment of PIET. PIET aims at providing world class technical and scientific education which can develop a professional outlook in every walk of life. Some key salient features are:

- State of Art of Infrastructure for innovative Teaching Pedagogy and ICT based learning.
- Offering four streams of Engineering (CSE, CSE (AI), AI & DS and Civil) at UG level.
- Rated as PLATINUM in Survey of Industry Linked Technical Institutes conducted by AICTE-CII.
- Accredited with NBA for B.Tech CSE 2020.
- Accredited with NBA for B.Tech Civil in 2019.
- NAAC Accredited institute from 2019.
- Ranked 3rd among all RTU affiliated colleges in Quality Index Value (QIV) assessment in academic year 2020-21
- Notable funding received from various Government and Private bodies (AICTE, RTU, IIT, IMPACT, ZEETRON NETWORKS)



AICTE IDEA LAB

AICTE has launched a proud scheme for establishing IDEA lab with a huge funding of Rs. 55 Lakh, across India, more than 200 Institutions applied for the same. Poornima Institute of Engineering & Technology, is proud to receive this grant and is only 1 Institute across Rajasthan to achieve these feet.

This lab will be a Industry 4.0 Hi tech lab facility available 24x7 in the campus, more students and faculty will be encouraged to take up creative work and, in the process, get training on creative thinking, problem solving, collaboration etc. which conventional labs are not focusing on in the domains of Robotics, 3D Printing, IoT, GIS & Bio-Manufacturing!!

ABOUT THE PROGRAM

This multidisciplinary online faculty development program is being organized as an effort to inculcate scientific temper and to popularize the benefits of scientific knowledge and its practical appropriation among the faculty members, general public and scientific institutions.

COURSE OBJECTIVE

Nowadays, large amount of data is available everywhere. Therefore, it is very important to analyze this data in order to extract some useful information and to develop an algorithm based on this analysis. This can be achieved through data mining and machine learning. Machine learning is an integral part of artificial intelligence, which is used to design algorithms based on the data trends and historical relationships between data. Machine learning is used in various fields such as bioinformatics, intrusion detection, information retrieval, game playing, marketing, malware detection, image deconvolution and so on.

AICTE

AICTE All India Council for Technical Education (AICTE) was setup in November 1945 as a national level Apex Advisory Body to conduct survey on the facilities on technical education and to promote development in the country in a coordinated and integrated manner. And to ensure the same, as stipulated in the National Policy of Education (1986), AICTE is vested with statutory authority for planning, formulation and maintenance of standards and norms, quality assurance through accreditation, funding in priority areas, monitoring and evaluation, maintaining parity of certification and awards and ensuring coordinated and integrated development and management of technical education in the country.



ISTE

The Indian Society for Technical Education (ISTE) is the leading National Professional Non-Profit, making Society for the Technical Education System in our country with the motto of Career Development of Teachers and Personality Development of Students and overall development of our Technical Education System. The major objective of the ISTE are:

- Providing quality training programmes to teachers and administrators of technical institutions to update their knowledge and skills in their fields of activity.
- To assist and contribute in the production and development of top quality professional engineers and technicians needed by the industry and other organizations.
- Providing guidance and training to students to develop better learning skills and personality.



THE DEPARTMENT

The Department of Computer Engineering is one of the finest and most diverse departments in the Poornima Group as well as in the Rajasthan Technical University, Kota. We offer the B.Tech in Computer Engineering since year 2007. I am glad to inform that Department has been accredited by National Board of Accreditation (NBA) and it is now in elite list of departments in India which has got this accreditation. The department of Computer Engineering offers B.Tech degree course with an approved intake of 100 students per year. Department makes the student industry ready with all practical experience by introducing new technology Machine learning, Data Science, Salesforce. Department has Huge Alumni base of more than 1200 Alumni currently working with MNC's and Government Institutions.

Schedule:

AICTE-ISTE one week online refresher program on
“Applications of Artificial Intelligence Using Machine Learning & Deep Learning”
 from 18th Dec to 24th Dec 2021

Day Wise Detailed Schedule

	8:30 AM-9:30 AM	09:30 AM-11:00 AM	11:15 AM-12:45 PM	1:45 PM - 3:15 PM	3:15 PM-3:30 PM
Day1 Saturday 18-Dec-21	INAUGURAL Dr. Atul M. Gonsai Professor, Saurashtra University	Introduction to AI & its Applications Dr. Santosh Vipparthi Assistant Professor, MNIT Jaipur	use of Artificial Intelligence in Wearables Dr Madhavi Sinha Associate Professor, BISR Jaipur	Software Engg & AI Dr Sumit Kalra Assistant Professor, IIT Jodhpur	Exam
Day2 Monday 20-Dec-21		Introduction to ML, types, Supervised ML (case study- House price prediction using Linear Regression) Dr Kusum Bharti Assistant Professor, IITDM, Jabalpur	Supervised ML- Prediction Models (implementation of Classification Techniques) Dr. Pooja Jain Assistant Professor, IIT, Nagpur	Unsupervised ML- Clustering algorithm (case study- Customer Segmentation using K Means) Ms Pooja Sharma Assistant Professor, PIET Jaipur	Exam
Day3 Tuesday 21-Dec-21		Unsupervised ML - Association Rule Mining through Apriori Algo (case study - Market Basket Analysis) Dr Tapas Badal Assistant Professor, Bennet Univeristy	Data Generation using Modelling & Simulation For Machine Learning Dr. Prashant Singh Rana Associate Professor, Thapar Institute of Engg. and Tech., Patiala	Use of Machine Learning in Natural Language Processing (Case study - Summarization of Text using Graph Based Algorithm) Dr Rekha Jain Professor, PIET Jaipur	Exam
Day4 Wednesday 22-Dec-21		Face aging and rejuvenation Mr Praveen Chandaliya Director, SDJ Infotech, Jaipur	Use of Deep Learning in Network Security (Case study of Malware Detection using Deep Learning) Dr Vinod P. Professor, Cochin University of Science & Technology	Adv Signal Processing techniques & ML Application in Modern Power System Dr Anamika Yadav Associate Professor, NIT Raipur	Exam
Day5 Thursday 23-Dec-21		Hand Written Character Recognition from image using CNN Dr Sandeep Bhargava Technical Lead, Rawattech Consulting & Solutions Ltd, Jaipur	National Education Policy Dr Dinesh Goyal Professor, PIET Jaipur	Introduction to Long Short-Term Memory (LSTM) networks with applications Dr. Priyanka Harjule Assistant Professor, MNIT	Exam
Day6 Friday 24-Dec-21		Hate speech detection using convolutional neural network Dr Basant Agrawal Assistant Professor, IIT Kota	Image processing through Deep Learning (Case study- Emotion Recognition system) Mr Deepak Moud Assistant Professor, PIET Jaipur	Deep learning applications in remote sensing Dr Manish Bhatt Assistant Professor, IIT Guwahati	Valedictory (Followed by Exam) Dr Ajit Khosla Faculty of Engineering, Japan


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Poster of Resource Persons (Speakers)



AICTE-ISTE SPONSORED ONE WEEK ONLINE REFRESHER PROGRAMME ON APPLICATIONS OF ARTIFICIAL INTELLIGENCE USING MACHINE LEARNING & DEEP LEARNING



December 18-24, 2021

Department of Computer Engineering, Poornima Institute of Engineering & Technology, Jaipur
Cordially invite you to Inaugural Session



Dr. Atul M. Gonsai
Chief Guest (Inaugural)
Professor, Saurashtra University



Dr. Ajit Khosla
Chief Guest (Valedictory)
Faculty of Engineering, Japan



Dr. Dinesh Goyal
Coordinator
Director & Principal, PIET, Jaipur



Ar. Rahul Singhi
Director
Poornima Group, Jaipur



Mr. Deepak Moud
HOD, CS
PIET, Jaipur

Resource Persons



Dr. Manish Bhatt
Assistant Professor
IIT Guwahati



Dr. Sumit Kalra
Assistant Professor
IIT Jodhpur



Dr. Anamika Yadav
Associate Professor
NIT Raipur



Dr. Priyanka Harjule
Assistant Professor
MNIT, Jaipur



Dr. Santosh Vipparthi
Assistant Professor
MNIT Jaipur



Dr. Pooja Jain
Assistant Professor
IIT, Nagpur



Dr. Basant Agrawal
Assistant Professor
IIT Kota



Dr. Kusum Kumari Bharti
Assistant Professor
IIITDM, Jabalpur



Dr. Sandeep Bhargava
Technical Lead, Rawattech Consulting
& Solutions Ltd, Jaipur



Praveen Kumar Chandaliya
Director
SDJ Infotech, Jaipur



Dr. Vinod P.
Professor, Cochin University of
Science & Technology



Dr. Madhavi Sinha
Associate Professor
BISR Jaipur



Dr. Prashant Singh Rana
Associate Professor
Thapar Institute of Engg. and Tech., Patiala



Dr. Tapas Badal
Assistant Professor
Bennet University



Dr. Rekha Jain
Professor
PIET Jaipur



Ms. Pooja Sharma
Assistant Professor
PIET Jaipur

Organized by Department Computer Engineering



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Details of Resource Person

"Applications of Artificial Intelligence Using Machine Learning & Deep Learning"

18th Dec to 24th Dec 2021
Details of Resource Person with Schedule

Day	Session	Topic	Name , Designations & Organization of Resource Person	Contact No	Mail Ids
Day1 Saturday 18-Dec-21	session-1	Introduction to AI & its Applications	Dr. Santosh Vipparthi Assistant Professor MNIT	9549658135	skvipparthi@mnit.ac.in
	session-2	AI & Wearables	Dr Madhavi Sinha Associate Professor BISR	9521099223	madhavisinha@bitmesra.ac.in
	session-3	Software Engg & AI	Dr Sumit Kalra Assistant Professor IIT Jodhpur	797677787	sumitk@iitj.ac.in
Day2 Monday	session-1	Introduction to ML, types, Supervised ML(case study- House price prediction using Linear Regression)	Dr Kusum Bharti Assistant Professor IITDM, Jabalpur	9406711296	kusum@iitdmj.ac.in
	session-2	Supervised ML - Prediction Models	Dr. Pooja Jain Assistant Professor IIT Nagpur	9318828066	poojaiid@yahoo.com
20-Dec-21	session-3	Unsupervised ML- Clustering algorithm(case study-Customer Segmentation using K Means)	Ms Pooja Sharma Assistant Professor PIET	8058665842	poojaiit@poornima.org
Day3 Tuesday	session-1	Unsupervised ML - Association Rule Mining through Apriori Algo (case study - Market Basket Analysis)	Dr Tapas Badal Assistant Professor Bennet University	7725921088	tapasbadal@gmail.com
	session-2	Data Generation using Modelling & Simulation For Machine Learning	Dr. Prashant Singh Rana, Associate Professor Thapar Institute of Engg. and Tech., Patiala, Punjab, India.	9855764471	psrana@gmail.com
21-Dec-21	session-3	Use of Machine Learning in Natural Language Processing (Case study - Summarization of Text using Graph Based Algorithm)	Dr Rekha Jain Professor PIET	9887147579	rekha.jain@poornima.org
Day4 Wednesday	session-1	Image processing through Deep Learning (Case study- Emotion Recognition system)	Mr Deepak Moud Assistant Professor PIET	7568748510	deepakmoud@poornima.org
	session-2	Use of Deep Learning in Network Security (Case study of Malware Detection using Deep Learning)	Dr Vinod P Professor Cochin University of Science & Technology, Cochin, Kerala, India	9497179735	pvinod21@gmail.com
	session-3	Adv Signal Processing techniques & ML Application in Modern Power System	Dr Anamika Yadav Associate Professor NIT	9425852654	ayadav_ele@nitrr.ac.in
Day5 Thursday	session-1	Hand Written Character Recognition from image using CNN	Dr Sandeep Bhargava Technical Lead Rawattech Consulting & Solutions Ltd, Jaipur	8118864109	eng_san83sandy@gmail.com
	session-2	National Education Policy	Dr Dinesh Goyal Professor PIET	9887678379	dinesh.goyal@poornima.org
	session-3	Hate speech detection using convolutional neural network	Dr. Basant Agrawal Assistant Professor IIT Kota	9829013908	basant.cse@iitkota.ac.in
Day6 Friday	session-1	Introduction to Long Short-Term Memory (LSTM) networks with applications	Dr Priyanka Hurjule Assistant Professor MNIT	9785069289	priyanka.maths@mnit.ac.in
	session-2	Child Face Age Progression and Regression using Self-Attention Multi-Scale Patch GAN	Mr Praveen Chandeliya Director SDJ Infotech	9414203851	praveencindia@gmail.com
24-Dec-21	session-3	Deep learning applications in remote sensing	Dr Manish Bhatt Assistant Professor IIT Gauhati	9311739488	manishb@iitg.ac.in

Details of sessions:

Day1 (18-Dec-2021)

Inaugural Session (8:30 am – 9:30 am) by Dr. Atul M. Gonsai, Professor, Saurashtra University

Q-Sheet - Inaugural Function

Day & Date : Saturday, December 18, 2021

Time : 08:30 AM to 09:30 AM

Venue : Online MS-Teams Platform (<https://tinyurl.com/AICTE-ISTE-MLDL>)

Coordinator : Dr. Dinesh Goyal

Anchors : Abhay Pratap Singh Chauhan, Gargi Singh Tanwar, II Year, CSE

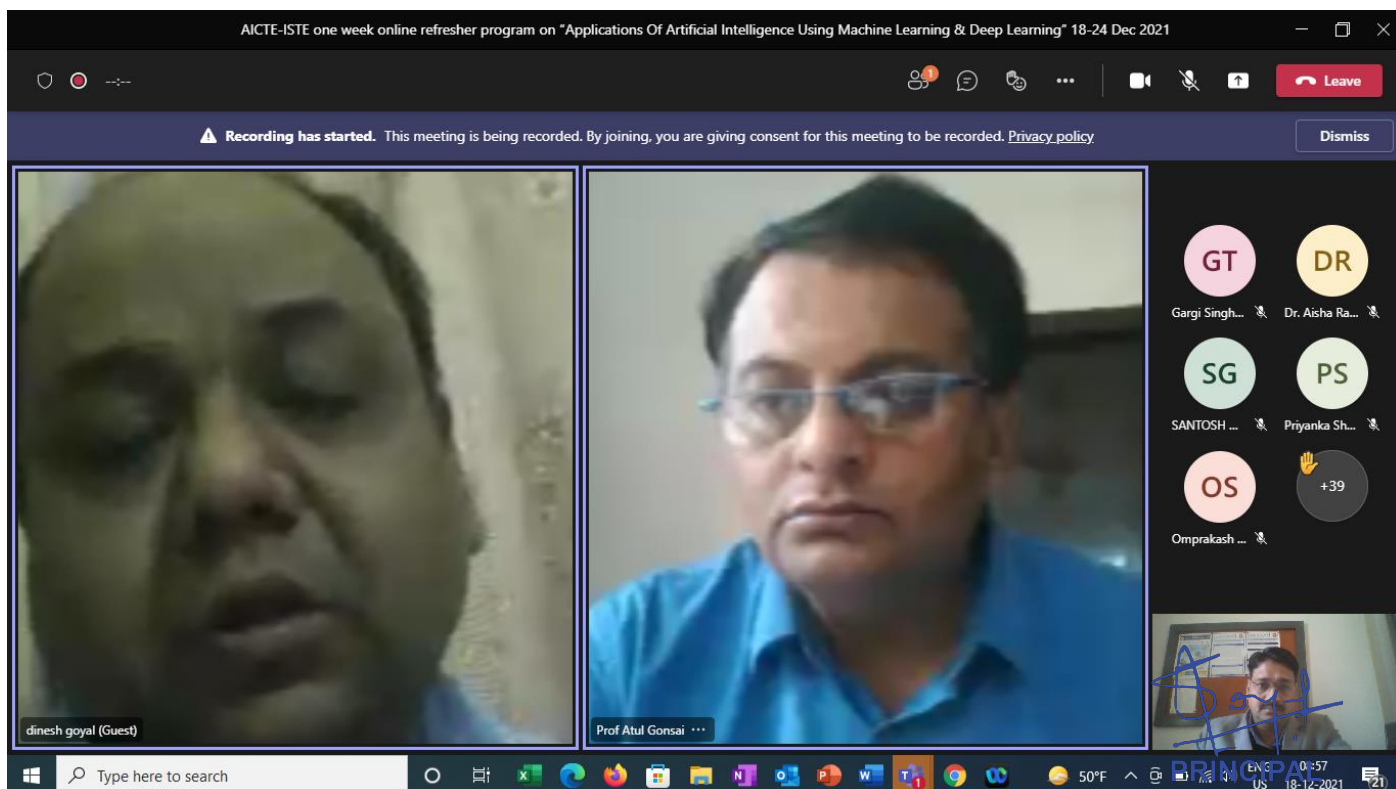

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**Poornima Institute of Engineering
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S. No	Activity	Time
1	Assembling of Participants & Delegates	08:30AM-08:45AM
2	Welcome Address & Introduction of Department by Deepak Moud sir, HOD(CS,PIET)	08:45AM-08:52AM
4	Introduction about One Week Online Refresher Programme & About PIET by Dr. Dinesh Goyal, Principal, PIET (Coordinator of Refresher Programme)	08:52AM-09:10AM
5	Introduction of Chief Guest and inviting him	09:10AM-09:12AM
6	Word of Wisdom by Dr. Atul M. Gonsai, Professor, Saurashtra University & Chief Guest of the Ceremony	09:12AM-09:25AM
7	Vote of thanks by Dr. Rekha Jain	09:25AM-09:30AM

Brief Profile: Prof. Dr. Atul Gonsai, Ph.D., MCA, BBA is Professor at Department of Computer Science, Saurashtra University, Rajkot. He has total teaching experience of Twenty One years. He has been awarded the "CAREER AWARD FOR YOUNG TEACHERS" from ALL INDIA COUNCIL FOR TECHNICAL EDUCATION (AICTE) New Delhi with amount of Rs. 10.5 lakhs. His research interest encompasses Computer networks, wireless networks, High performance networking, Rate Control Protocol (RCP), Network Security, Encryption Decryption, Ad hoc Network protocol, Network performance tuning, Protocol development, Image Processing and Cloud computing *etc.*

Pic:



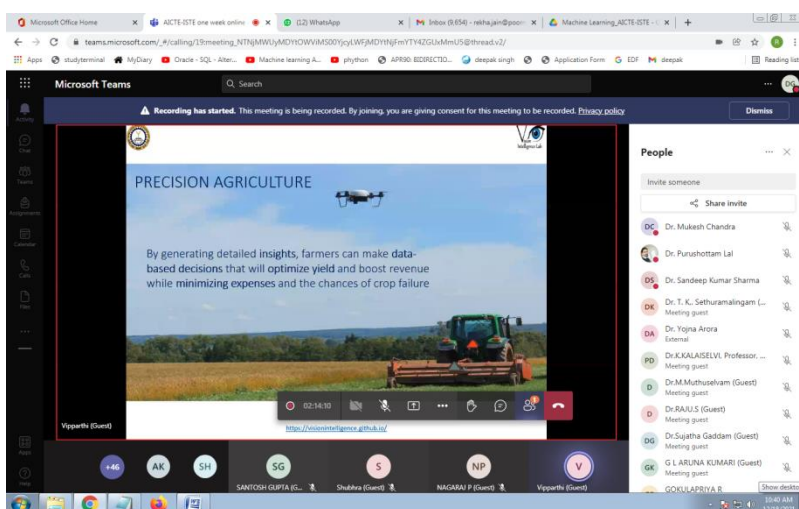
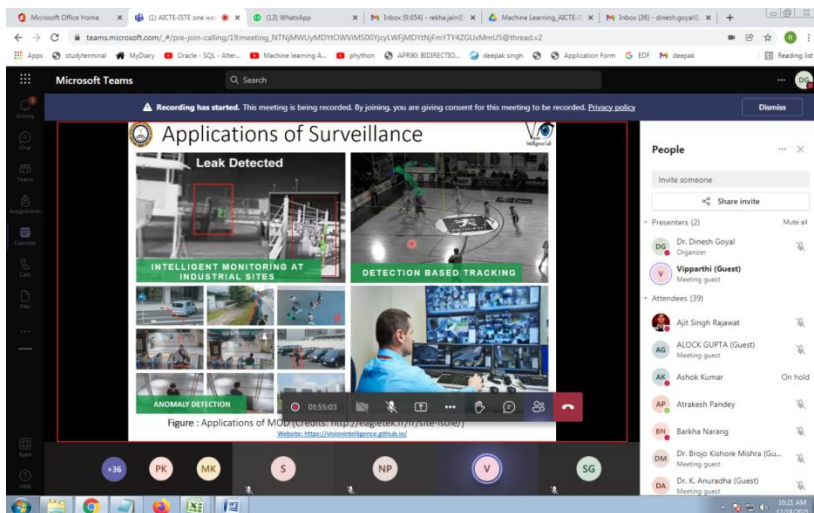
Session-1: (9:30 am – 11:00 am)

Topic: Introduction to AI & its Applications

Resource Person: Dr. Santosh Vipparthi, Assistant Professor MNIT, Jaipur

Brief Profile: Santosh Kumar Vipparthi is an Assistant Professor in the Department of Computer Science and Engineering at Malaviya National Institute of Technology (MNIT), Jaipur, India (An Institute of National Importance and one of the top NITs fully funded by Ministry of Education, Government of India), (2013-Current). He finished His PhD at the Indian Institute of Technology Banaras Hindu University (IIT-BHU), Varanasi, under the supervision of Prof. Shyam Krishna Nagar. Before that, He received his master's degree in systems Engineering at Indian Institute of Technology Banaras Hindu University (IIT-BHU), advised by Prof. J. P. Tiwari. He is a regular reviewer for many top ranking international journals (IEEE Transactions on Image Processing (TIP), IEEE Transactions on Affective Computing, IEEE Transactions on Cybernetics, etc.) and conferences (BMVC, WACV, ICPR, etc.).

Pics:




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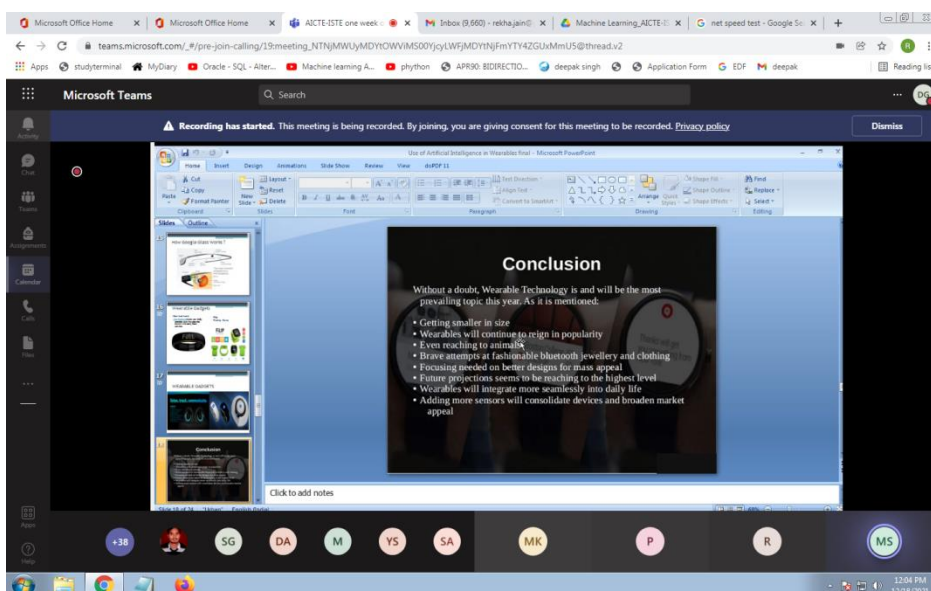
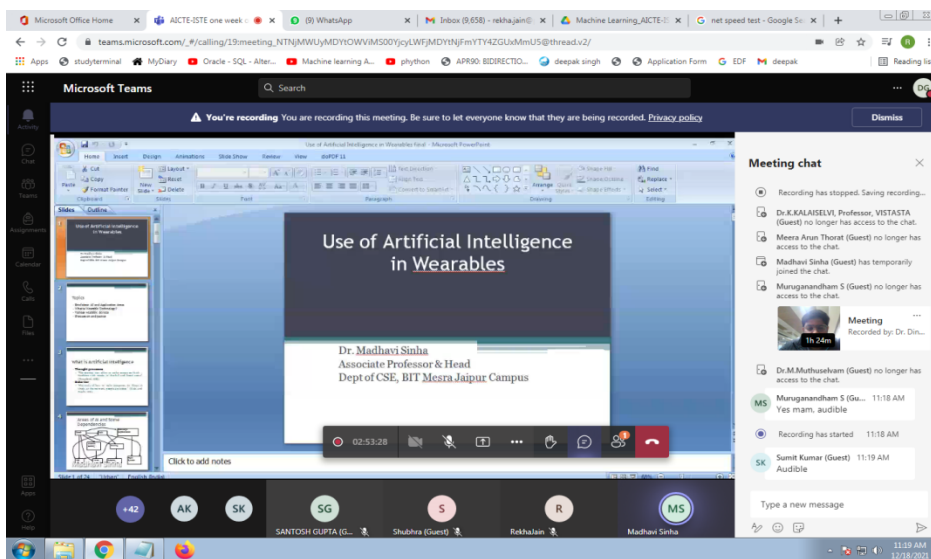
Session-2: (11:15 am – 12:45 pm)

Topic: Use of Artificial Intelligence in Wearables

Resource Person: Dr Madhavi Sinha, Associate Professor, BIT Mesra Jaipur Campus

Brief Profile: Dr. Madhavi Sinha is currently working as Associate Professor and Head in Department of Computer Science and Engineering, Birla Institute of Technology, Mesra, India since 2007. She has over 30 years teaching experience for UG and PG courses.

Pics:




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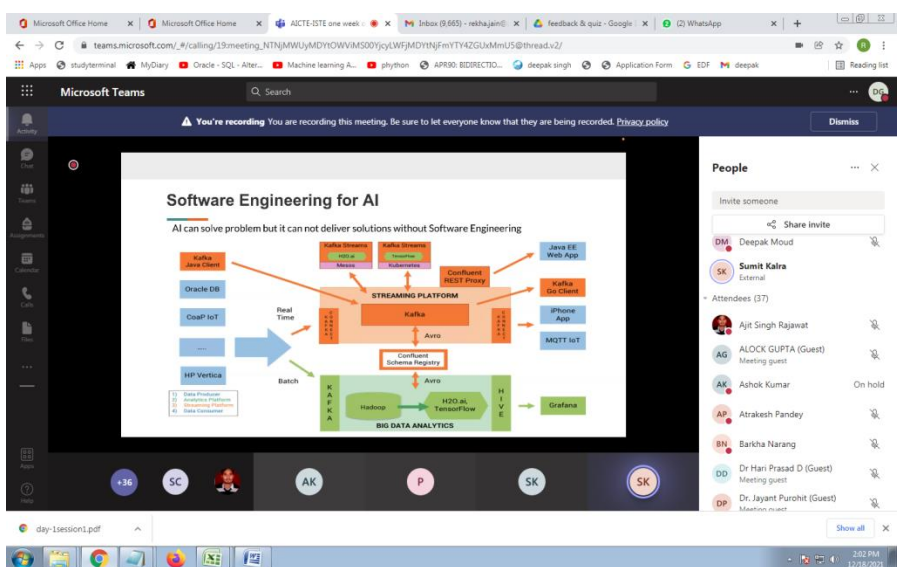
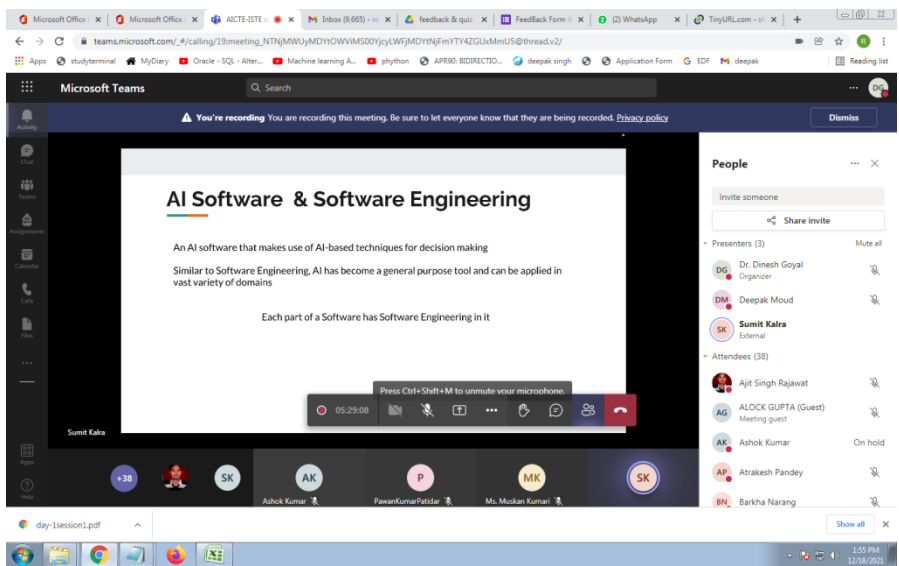
Session-3: (12:45 pm-3:15 pm)

Topic: Software Engg & AI

Resource Person: Dr Sumit Kalra, Assistant Professor, IIT Jodhpur

Brief Profile: Dr. Sumit Kalra earned his Ph.D. from IIT Kanpur in 2018 and joined IIT Jodhpur as Assistant Professor in the Department of Computer Science and Engineering. He is mainly interested in exploring the software architectural issues related to the quality of complex software systems across various domains such as data intensive processing, edge-fog computing, AI, and IoT-based systems. He has a couple of patents and high-quality publications in his name.

Pics:



Day2 (20-Dec-2021)

Session-1: (9:30 am – 11:00 am)

Topic: Introduction to ML, types, Supervised ML (case study- House price prediction using Linear Ligation)

Resource Person: Dr Kusum Bharti Assistant Professor, IIITDM Jabalpur

Brief Profile: Dr. Kusum Bharti is an Assistant Professor at PDPM IIITDM Jabalpur. Dr. Bharti has obtained her Ph.D. in Computer Science & Engineering from ABV-IIITM Gwalior. She has guided 06 M. Tech., and presently guiding 04 Ph.D. students and 04 M.Tech Students. She has published more than 12 journal and conference papers in the area of text clustering, data mining, online social network, and soft computing. She has been an active member of many organizing committees of various conferences, workshops and faculty development program. Her research areas include machine Learning, Data Mining, Machine Translation. Online Social Network, and Soft Computing.

Pics:

The screenshot shows a Microsoft Teams meeting interface. The main slide is titled "LEARNING ALGORITHMS..." and contains the following text:

- **General Tasks**
 - Classification, Regression, Transcription, Machine Translation etc.
- **Performance measures**
 - Depends on the type of problem: Examples include –
 - accuracy, error rate etc.
 - Performance is measured on a dataset called test dataset, that is different from the dataset used to train the algorithms.
 - Often difficult to choose a performance measure that corresponds well to the desired behavior of the system.
- **Experience**
 - Algorithms are termed learning algorithms based on datasets.

The slide also shows a list of attendees on the right side of the screen, including Kusum (Guest), Ashwarya Upadhyay, ALOK GUPTA (Guest), Atrakesh Pandey, Barkha Narang, and Deepak Moud.

The screenshot shows a Microsoft Teams meeting interface. The main slide is titled "SUPERVISED MACHINE LEARNING APPROACH" and contains the following text:

We collect lots of examples with their known outputs
Learn a function that map inputs to outputs

The slide also includes a diagram illustrating the supervised machine learning process. The diagram shows a "Training Dataset" with columns for "Sample 1", "Sample 2", and "Sample n". Each sample has a corresponding "Expected Result 1", "Expected Result 2", and "Expected Result n". The training process involves feeding the training dataset into a "Model" which then uses the "Model" to "Make prediction for new samples". The resulting "Prediction" is compared against the "Expected Result" to determine the "Error".

The slide also shows a list of attendees on the right side of the screen, including Dr. Dinesh Goyal (Organizer), Kusum (Guest), Ajit Singh Rajawat, ALOK GUPTA (Guest), Atrakesh Pandey, Barkha Narang, and Deepak Moud.


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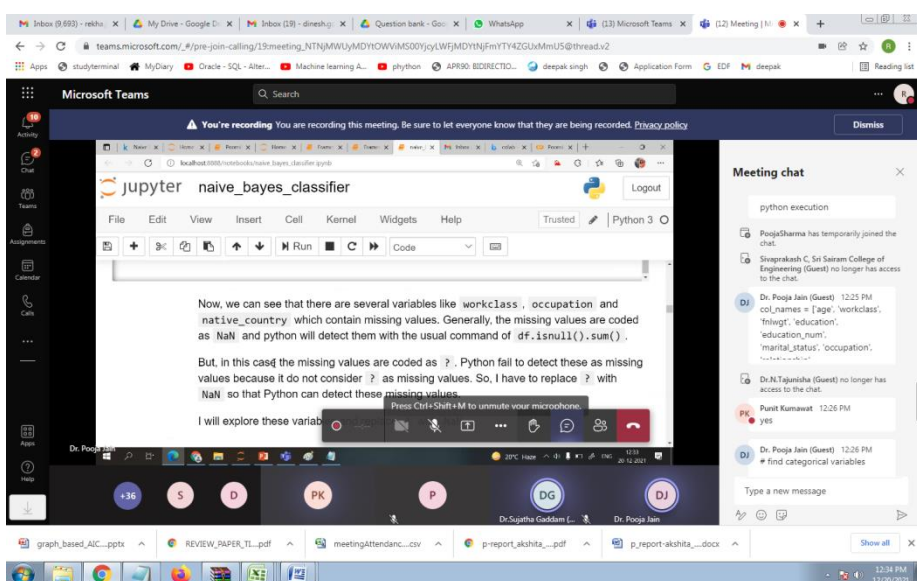
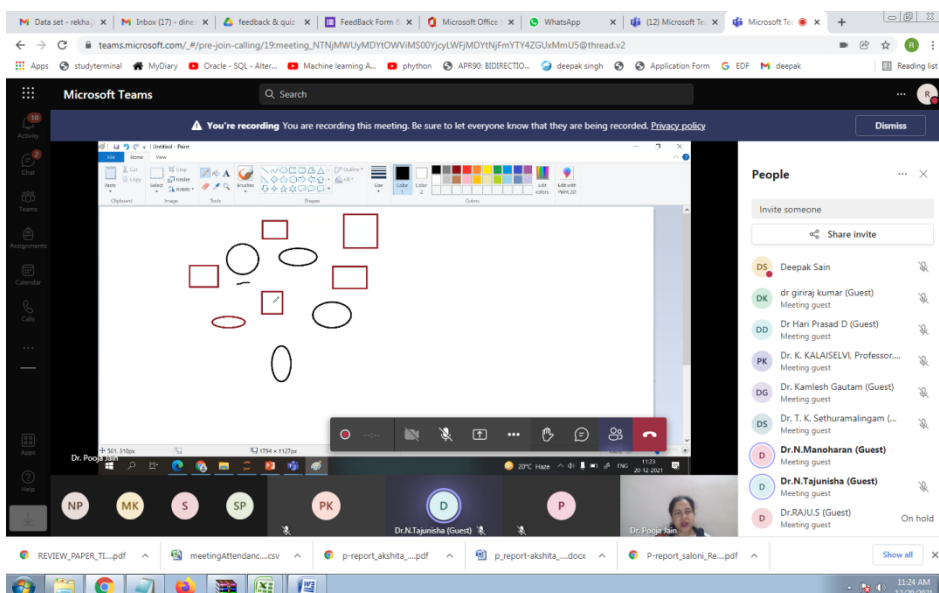
Session-2: (11:15 am – 12:45 pm)

Topic: Supervised ML -Prediction Models (implementation of Classification Techniques)

Resource Person : Dr. Pooja Jain, Assistant Professor, IIIT Nagpur

Brief Profile: Dr.Pooja Jain is currently working with Indian Institute of Information Technology, Nagpur in the Department of Computer Science and Engineering. She has close to 16 years of experience in industry as well as academia. She has worked with multi nationals like IBM and CSC. She has many publications in international journals and conferences.She has 5 PhD scholars working under her guidance. Currently she is involved with a project with DRDO.

Pics:




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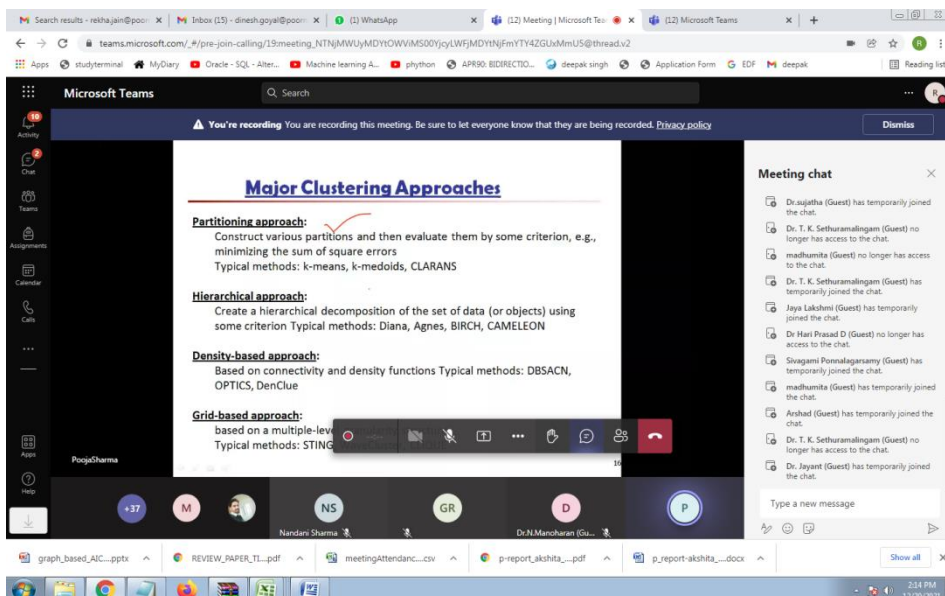
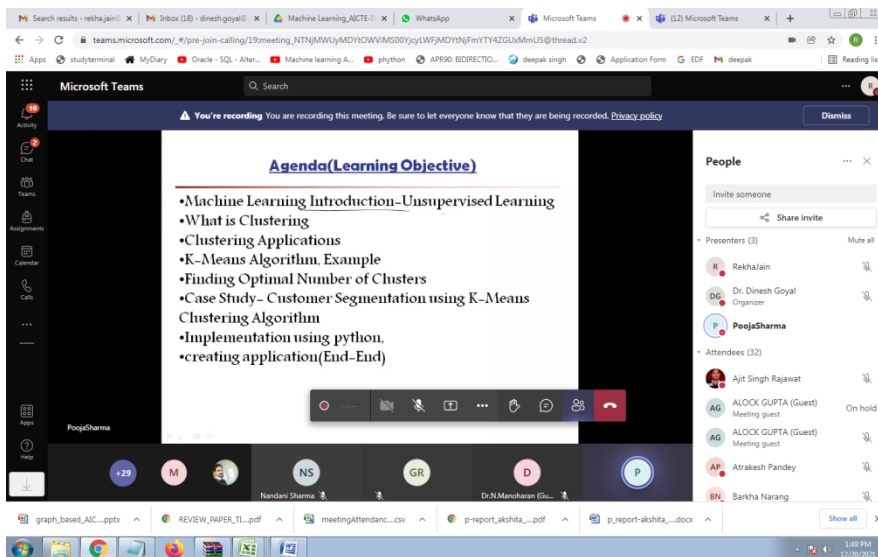
Session-3: (12:45 pm-3:15 pm)

Topic: Unsupervised ML- Clustering algorithm (case study-Customer Segmentation using K Means)

Resource Person: Ms Pooja Sharma, Assistant Professor, PIET Jaipur

Brief Profile: Ms. Pooja Sharma currently working as an Assistant Professor, Department of Computer Engineering, She has a total 14 years of teaching experience in engineering education. Her qualifications are B.E(Hons), M.Tech(CSE), PhD(P).She has published research papers in National & International conferences. Her research areas are Artificial Intelligence, Machine Learning & Deep Learning. She is Microsoft Certified in Azure AI fundamentals.She took sessions in many national level workshops/FDP on Machine learning, data science & deep learning.

Pics:



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Day3 (21-Dec-2021)

Session-1: (9:30 am – 11:00 am)

Topic: Unsupervised ML - Association Rule Mining through Apriori Algo (case study - Market Basket Analysis)

Resource Person: Dr Tapas Badal Assistant Professor, Bennet Univeristy

Brief Profile: Tapas Badal is an Assistant Professor in the School of Computer Science & Engineering Technology at Bennett University. He received B.Tech degree from the IES-IPS Academy, Indore, M.Tech from ABV-IITM Gwalior, and Ph.D. degrees from The MNIT Jaipur. He is having 10+ year of teaching and 6 years of research experience. He has published several good papers in reputed conferences and journals. His research interests include pattern recognition, computer vision and Natural Language Processing. He is interested in surveillance video activity analysis and knowledge extraction. He is currently involved in video-based studies of and efforts to support browsing and analysing activities. Also, he is working on AI-Bot and text analysis.

Pics:

Supervised learning vs. unsupervised learning

- Supervised learning: discover patterns in the data that relate data attributes with a target (class) attribute.
 - These patterns are then utilized to predict the values of the target attribute in future data instances.
- Unsupervised learning: The data have no target attribute.
 - We want to explore the data to find some intrinsic structures in them.

ID apples, beer, cheese, dates, eggs, fish, glue, honey, ice-cream

ID	apples	beer	cheese	dates	eggs	fish	glue	honey	ice-cream
1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1	1
13	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1	1	1
19	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1


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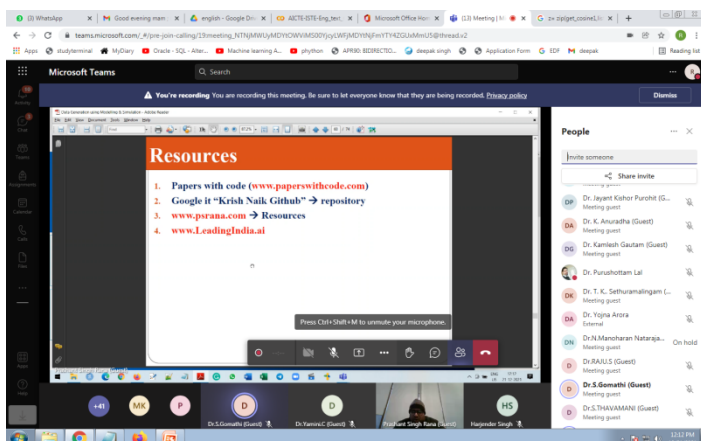
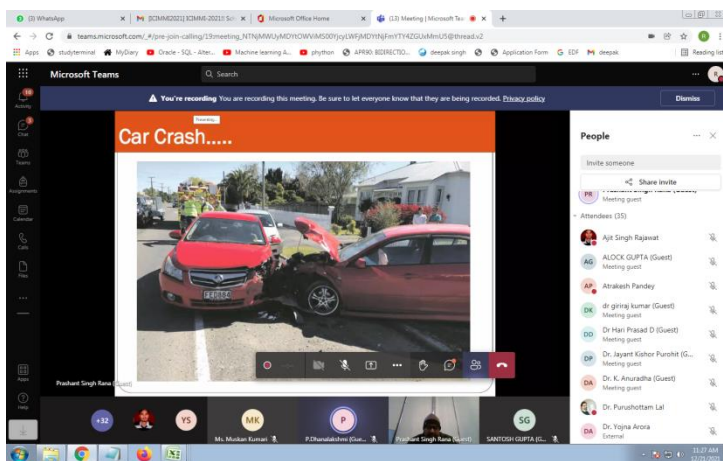
Session-2: (11:15 am – 12:45 pm)

Topic: Data Generation using Modeling & Simulation For Machine Learning

Resource Person: Dr. Prashant Singh Rana Associate Professor, Thapar Institute of Engg. and Tech., Patiala

Brief Profile: Dr Prashant Singh Rana is presently working as Associate Professor in the Computer Science and Engineering Department, Thapar University, Patiala. He received his both PhD and MTech from ABV-IIIITM, Gwalior. His areas of research are Machine Learning, Deep Learning, Bioinformatics, and Optimization. He has published more than 70 research papers in different journals and conferences. He completed five projects sponsored by DST, ICMR, and NVIDIA. He published 10 patents. He guided seven PhD students and 18 Master's students.

Pics:




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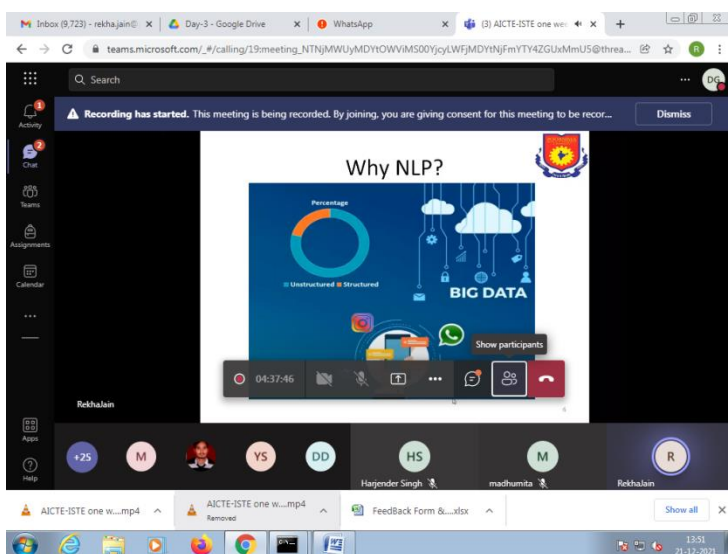
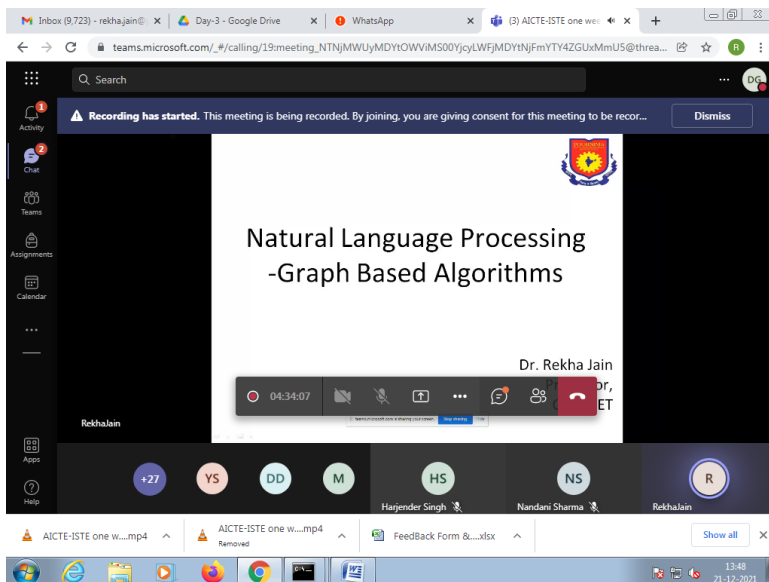
Session-3: (1:15 pm – 3:15 pm)

Topic: Use of Machine Learning in Natural Language Processing (Case study - Summarization of Text using Graph Based Algorithm)

Resource Person: Dr Rekha Jain Professor, PIET Jaipur

Brief Profile: Dr. Rekha Jain is currently working with Poornima Institute of Engineering & Technology, Jaipur as Professor in the Department of Computer Science and Engineering. She has close to 18 years of experience of development as well as academician. She has completed her PhD from Banasthali Vidyapith. She has many publications in international journals and conferences. She has 7 PhD scholars working under her guidance.

Pics:




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Day4 (22-Dec-2021)

Session-1: (9:30 am – 11:00 am)

Topic: Face Aging and Rejuvenation

Resource Person: Mr Praveen Chandaliya Director, SDJ Infotech, Jaipur

Brief Profile: Praveen Kumar Chandaliya received his M.Tech degree at Malaviya National Institute of Technology Jaipur, in 2014. He is currently pursuing his Ph.D. degree in the Malaviya National Institute of Technology Jaipur. From 2019 to 2020, he was a visiting scholar at Michigan State University, USA. His current research interests include age invariant face recognition, face aging synthesis, and age estimation.

Pics:

The screenshot shows a Microsoft Teams meeting interface. The main window displays an 'Outline' of the presentation topics:

- 1 Fundamentals of convolution neural network
- 2 Face dataset
- 3 Synthetic image generation model
- 4 Generative Adversarial Network
- 5 Conditional Perceptual Adversarial Variational Autoencoder
- 6 Application of GAN
- 7 Motivation
- 8 SAMSP Model Architecture
- 9 Qualitative Evaluation
- 10 Age estimation
- 11 Identity Preservation using Face Matchers
- 12 Case Study of Missing Child
- 13 Longitudinal Analysis of Missing Child
- 14 Longitudinal Children Face
- 15 Publication

The meeting chat on the right shows messages from participants like Siva Prakash C. S. Saha, Shaiza Haque, Atarakesh Pandey, and Manugandham S. G. The meeting is recorded.

The screenshot shows a Microsoft Teams meeting interface. The main window displays a slide titled 'Aging using SSR-Net' with the following content:

Age estimation (years) evaluated by SSR-Net⁶.

Age group	Age Estimation (year) of Test dataset				
	2-5	6-8	9-11	12-14	15-19
CAAE ⁷	12.38 ± 0.35	14.97 ± 5.84	18.04 ± 9.24	20.48 ± 4.52	21.80 ± 3.90
IPCAN ⁸	9.48 ± 7.77	13.60 ± 8.96	18.19 ± 9.47	22.09 ± 6.41	22.76 ± 8.40
CPVAE ⁹	11.12 ± 5.86	14.65 ± 6.16	18.19 ± 5.77	21.44 ± 4.73	22.80 ± 4.02
StyleAging ¹⁰	11.51 ± 7.98	14.34 ± 7.18	18.13 ± 7.13	22.66 ± 5.80	25.87 ± 4.22
SAMSP-GAN ¹¹	16.93 ± 6.90	19.91 ± 7.96	18.72 ± 6.53	22.36 ± 3.38	24.46 ± 3.39

Footnotes:

- ⁶Yi Yang et al. SSR-Net: A Compact Soft Stageswise Regression Network for Age Estimation. IJCAI 2018
- ⁷Zhang et al. Age Progression/Regression by Conditional Adversarial Autoencoder. CVPR 2017
- ⁸Wang et al. Face Aging with Identity-Preserved Conditional Generative Adversarial Networks. CVPR 2018
- ⁹Chandaliya et al. Conditionally Age Progression & Regression
- ¹⁰Georgopoulos et al. Enhancing Facial Data Diversity with Style-based Face Aging.

The meeting chat on the right shows a list of attendees including Abhyendra Singh, Aji Singh Rajawat, ALOK GUPTA, Atarakesh Pandey, Barkha Narang, Dr. Hari Prasad D, Dr. K. Anushka, Dr. E. Anushka, and Dr. Kamlesh Gautam.


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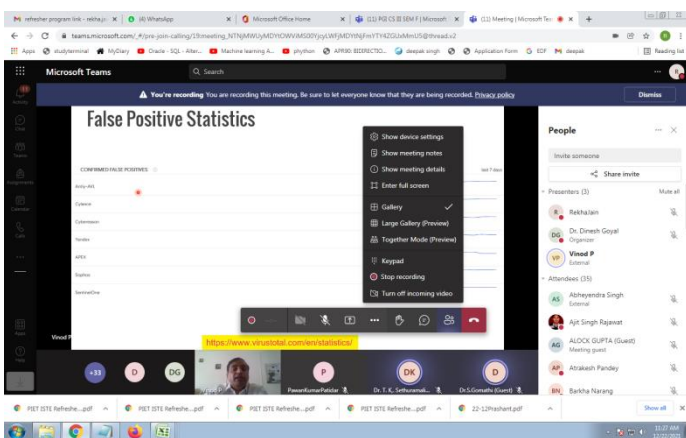
Session-2: (11:15 am – 12:45 pm)

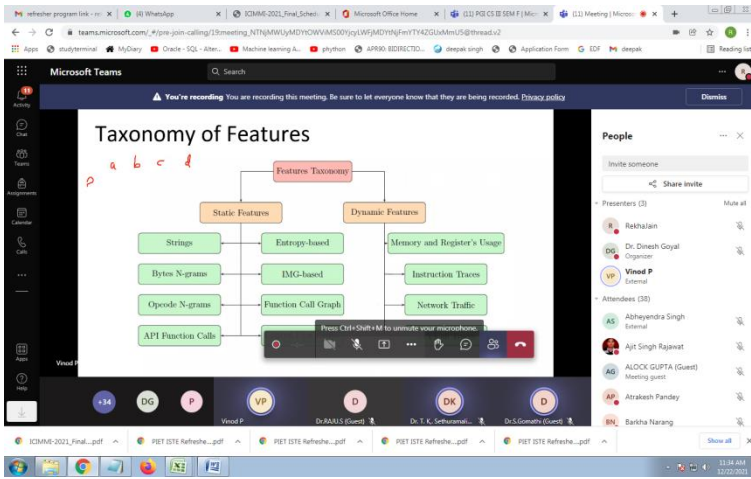
Topic: Use of Deep Learning in Network Security (Case study of Malware Detection using Deep Learning)

Resource Person: Dr Vinod P. Professor, Cochin University of Science & Technology

Brief Profile: Dr. Vinod P., is presently a Professor in the Department of Computer Applications at Cochin University of Science & Technology, Cochin, Kerala. He was a Postdoctoral Researcher at the Department of Mathematics, University of Padua, Italy, where he implemented the EU-H2020 project named TagitSmart. He was also a Postdoctoral researcher at Malaviya National Institute of Technology, Jaipur, Rajasthan under the ISEA project on Mobile Security. He holds his Ph.D. in Computer Engineering from Malaviya National Institute of Technology, Jaipur, India. Recently he was awarded the Seal of Excellence for a Marie Skłodowska-Curie Individual Fellowship project proposal (Project Title OPTIMA: Organization Specific Threat Intelligence Mining and Sharing) by the European Commission. For the implementation of this project, he has been approved a grant of 100,000 Euros from the host institution of research which is the University of Padua, Italy. He has numerous research articles published in peer-reviewed Journals and International Conferences. He is a reviewer of a number of security journals few to name are IEEE Transactions of Information Forensics, IEEE Communication Surveys and Tutorials, Elsevier Computer Communications, and is also serving as a programme committee member in the International Conferences related to Computer and Information Security. Vinod's area of interest is Adversarial Machine Learning, Malware Analysis, Context-aware privacy-preserving Data Mining, and Natural Language Processing.

Pics:





Session-3: (1:15 pm – 3:15 pm)

Topic: Adv Signal Processing techniques & ML Application in Modern Power System

Resource Person: Dr Anamika Yadav Associate Professor, NIT Raipur

Brief Profile: Dr. Anamika Yadav did her Bachelor of Engineering degree with Honours in the year 2002 from RGPV Bhopal, MP, India. She completed her Master of Technology Degree with Honours in 2006 from Visvesvaraya National Institute of Technology Nagpur, Maharashtra, India. She obtained her Ph.D. Degree in Electrical Engineering in 2010 from Chhattisgarh Swami Vivekanand Technical University Bilai CG, India with National Institute of Technology Raipur as a research centre. Started Professional Career as Graduate Engineer Trainee at Bharat Aluminium Company Korba, CG where she worked from Dec 2002 to Aug 2003. She also has Industrial experience as Assistant Engineer at Chhattisgarh State Power Generation Company Ltd. Raipur from 2004-2009. Joined National Institute of Technology Raipur as Assistant Professor in the department of Electrical Engineering in March 2009. Presently She is working as Associate Professor since June 2018 and also serving as Associate Dean (Research and Consultancy) since July 2018. Appointed as Editor of IEEE Transactions on Power Delivery since Oct 2021. Enlisted in Top 2% scientist list in the year 2021 released by Stanford University published by Elsevier. Recipient of Institution of Engineers India “Young Engineers Award” 2015-16, VIFFA “Young Faculty Award” 2015, VIFRA “Young Scientist Award” 2015, The Glory of India Award 2016, Chhattisgarh “Young Engineers Award” 2016. Supervised 7 Ph.D. thesis and 22 Master Thesis. Published one book and more than 128 publications in reputed international journals, conferences and book chapters. Edited one book title:- Artificial Intelligence Applications in Electrical Transmission and Distribution Systems Protection, Publisher: CRC Press, Editors: Almoataz Y Abdelaziz, Shady Hossam Eldeen Abdel Aleem, Anamika Yadav, ISBN 9780367552374, Publication date:- October 22, 2021. Has more than 2300 citations and h-index of 26 and i-10 index of 63 as per Google scholar.

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Pics:

The screenshot shows a Microsoft Teams meeting interface. The main content is a presentation slide with the following text:

Advance Signal Processing Techniques & ML Application in Modern Power System

ICTE-ISTE one week online refresher program on "Applications of Artificial Intelligence Using Machine Learning & Deep Learning", from 18th Dec to 24th Dec 2021.

Organized by
Poornima Institute of Engineering & Technology

PRESENTED BY
Dr. (Mrs.) Anamika Yadav
Associate Dean (Research & Consultancy) and Associate Professor,
Department of Electrical Engineering,
National Institute of Technology, Raipur

Dec, 22, 2021

The slide also features the logo of Poornima Institute of Engineering & Technology. The Teams interface includes a 'People' list on the right with participants like RekhaJain, Dr. Anamika Yadav (Guest), Dr. Dinesh Goyal (Organizer), and others. The bottom of the screen shows the Windows taskbar with various open applications.

The screenshot shows a Microsoft Teams meeting interface. The main content is a presentation slide titled "MODERN POWER SYSTEM" with a flowchart diagram illustrating the power system structure:

```
graph TD; CG[Central Generation] --> T[Transmission]; T --> EHV[EHV Distribution]; T --> HV[HV Distribution]; T --> LV[LV Distribution]; EHV --> D[DEMAND]; HV --> D; LV --> D; DG1[DG] --> EHV; DG2[DG] --> HV; DG3[DG] --> LV;
```

The diagram shows a vertical flow from Central Generation to Transmission, then to three levels of Distribution (EHV, HV, LV). Each distribution level has a corresponding Demand (DEMAND) block to its left. Additionally, there are three Distributed Generation (DG) blocks, each with an arrow pointing to one of the distribution levels (EHV, HV, and LV).

The Teams interface includes a 'People' list on the right with participants like RekhaJain, Dr. Anamika Yadav (Guest), Dr. Dinesh Goyal (Organizer), and others. The bottom of the screen shows the Windows taskbar with various open applications.

Day5 (23-Dec-2021)

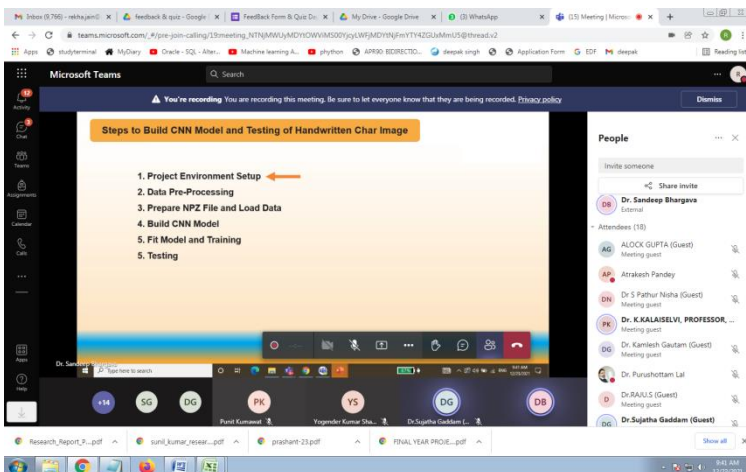
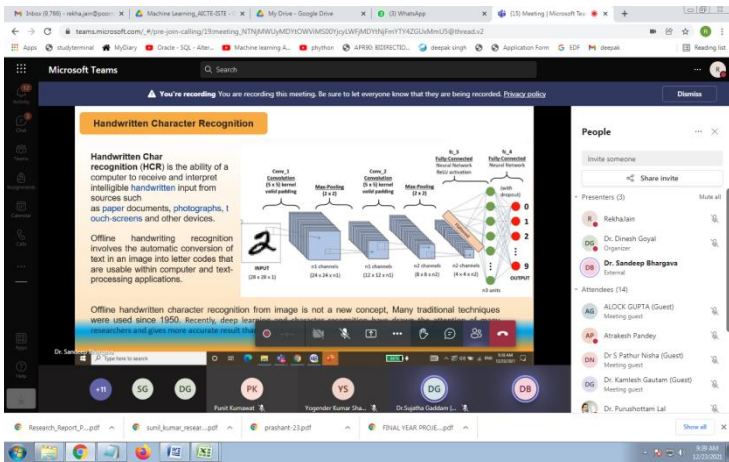
Session-1: (9:30 am – 11:00 am)

Topic: Hand Written Character Recognition from image using CNN

Resource Person: Dr Sandeep Bhargava Technical Lead, Rawattech Consulting & Solutions Ltd, Jaipur

Brief Profile: Dr. Sandeep Bhargava holding B.E, M.Tech and Ph.D in Computer Science and Engineering with specialization in AI and Cloud. Presently working as technical lead in developing Computer vision product using deep learning and state-of-the-arts in computer vision, through research to deployment.

Pics:




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Session-2: (11:15 am – 12:45 pm)

Topic: National Education Policy

Resource Person: Dr Dinesh Goyal Professor, PIET Jaipur

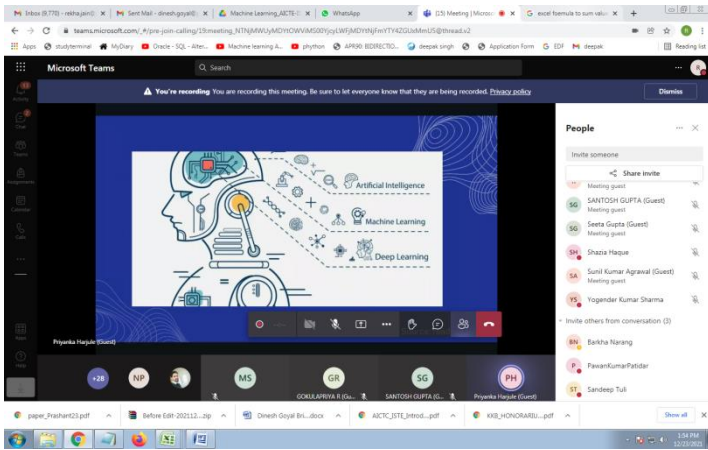
Brief Profile: Dr. Dinesh Goyal is working as Professor in Computer Science and Engineering Under his leadership the Institute has become 1 st Institution across India to offer Engineering Education in Regional Language under “New Education Policy”. Acquiring an experience of more than 21 years in teaching, and perceive keen interest in research area relating Cloud Security, Image Processing, Data Analytics and Information Security. With a mission to append more and better skill set, has organized many Conferences/ Workshops/ Seminars and FDP’s as Convener and Co-Convener within during this short career span. With his great exposure with Outcome based Education in higher Education, he has been instrumental in obtaining accreditations for his institutions, from various agencies like NAAC & NBA. He is also Empanelled Assessor in NAAC since 2021. He has also received Grants for Research, Development, Conference & workshops more than Rs. 81 Lakh, from agencies like AICTE, TEQIP, ISTE etc, that include CRS Project, MODROBS, AICTE-IDEA Lab (Only institution in Rajasthan to part of such a great mission), GoC and many more. He has been awarded by “Elets Excellence Award 2017” at Higher Education & Human Resource Conclave by Higher Education Department of Government of Rajasthan. He has also completed his CMI level 5 Award in “Management and Leadership”, under AICTE-UKIERI Technical Leadership Development Program. He has 8 Full patents published & 1 Copyright under his name. He has successfully published 9 edited books with big publishing giants like Springer, Wiley, IGI Global, Apple Academic Press, Taylor & Francis and Eureka. He has published 3 SCI & 21 Scopus and 15 Web of Science indexed papers & is editors of 2 SCI & 5 Scopus Indexed Journals, special issues. He has successfully guided 9 PhD Scholars & 31 PG Scholars. He is life member of ISC & ISTE and fellow member of ACM, CSI & IEEE.

Pics:



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**Poornima Institute of Engineering
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Day6 (24-Dec-2021)

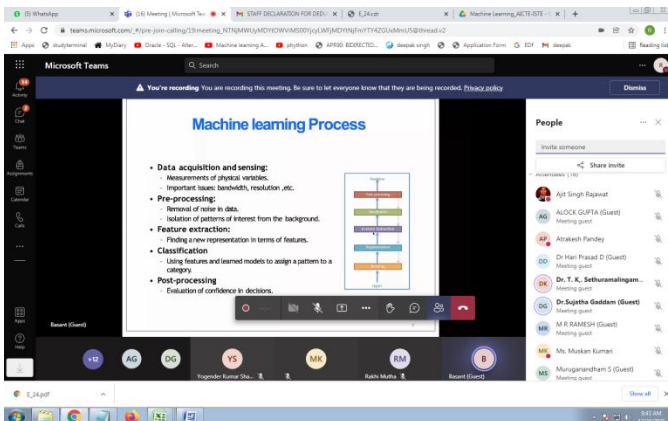
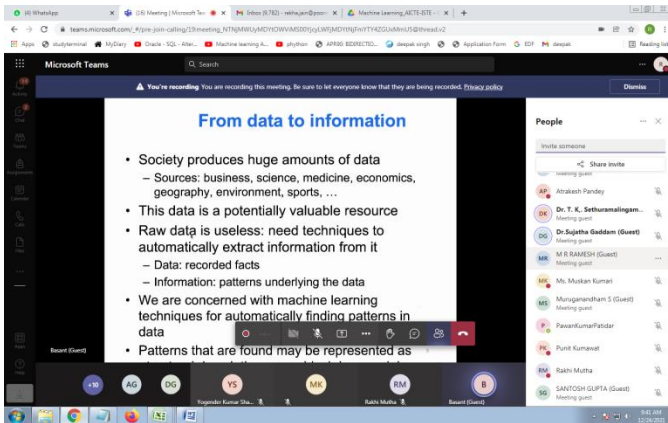
Session-1: (9:30 am – 11:00 am)

Topic: Hate speech detection using Convolutional Neural Network

Resource Person: Dr Basant Agrawal Assistant Professor, IIIT Kota

Brief Profile: Dr. Basant Agarwal is working as an Assistant Professor at the Indian Institute of Information Technology Kota (IIIT-Kota), India, which is an Institute of National Importance. He holds a Ph.D. and M.Tech. from the Department of Computer Science and Engineering, Malaviya National Institute of Technology Jaipur, India. He has more than 9 years of experience in research and teaching. He has worked as a Postdoc Research Fellow at the Norwegian University of Science and Technology (NTNU), Norway, under the prestigious ERCIM (European Research Consortium for Informatics and Mathematics) fellowship in 2016. He has also worked as a Research Scientist at Temasek Laboratories, National University of Singapore (NUS), Singapore. His research interest is in Artificial Intelligence, Cyber-physical systems, Text mining, Natural Language Processing, Machine learning, Deep learning, Intelligent Systems, Expert Systems and related areas.

Pics:




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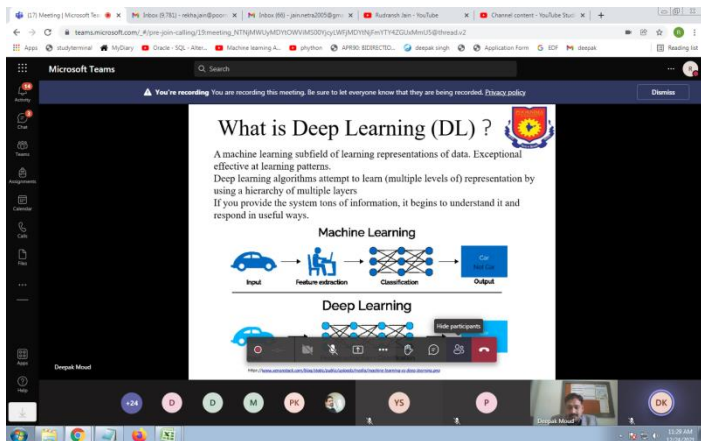
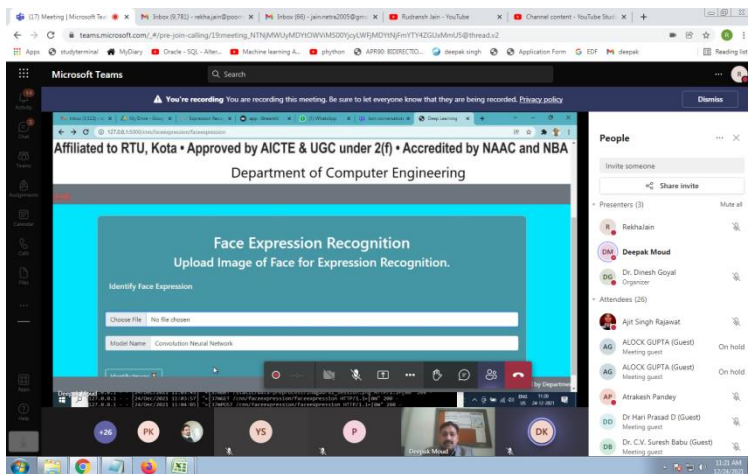
Session-2: (11:15 am – 12:45 pm)

Topic: Image processing through Deep Learning (Case study- Emotion Recognition system)

Resource Person: Mr Deepak Moud Assistant Professor, PIET Jaipur

Brief Profile: Mr. Deepak Moud is Assistant Professor and Head in Department of Computer Engineering, Poornima Institute of Engineering & technology, Jaipur. He has more than 16 years of teaching experience. He is BE, Mtech in Computer Science & Engineering . He research interests are in the area of Image Processing, Machine Learning, Deep Learning and data Mining. He has published more than 20 research papers in reputed journal in this area. He has received Best paper award two times. He guided many Deep Learning, Machine learning, Python flask projects. He has conducted training on various technologies. He has published two books. He has been resource person for more than 5 ATAL FDP and AICTE and TEQIP sponsored Workshops. He is Microsoft certified Azure AI Fundamental and Data Fundamental professional.

Pics:




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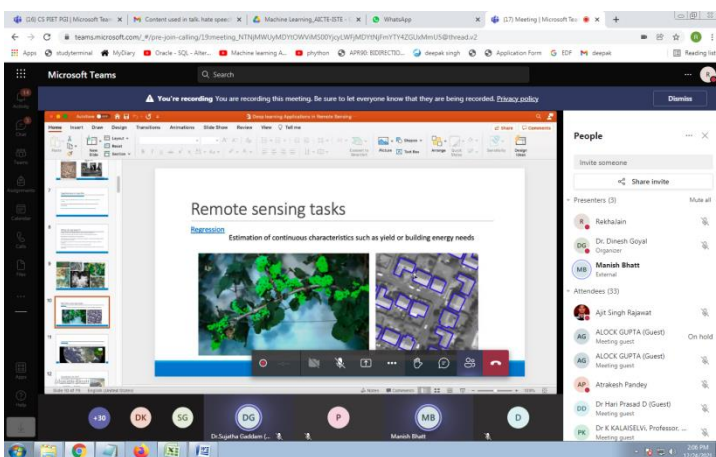
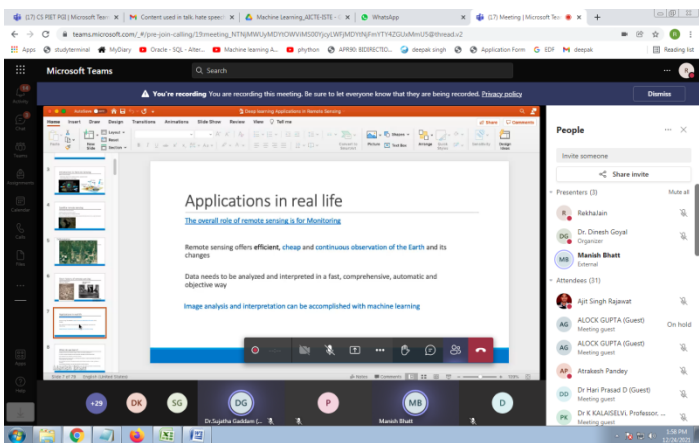
Session-3: (1:15 pm – 3:15 pm)

Topic: Deep learning applications in Remote Sensing

Resource Person: Dr Manish Bhatt Assistant Professor, IIT Guwahati

Brief Profile: Dr Manish is an Assistant Professor in the EEE Department at the Indian Institute of Technology Guwahati. He completed his PhD from IISc Bangalore in 2017 with specialization in Biomedical Imaging. He was a postdoctoral fellow at the University of Montreal, Canada and Johns Hopkins University, USA. His research interests lie broadly in image processing, inverse problems, deep learning, and medical imaging.

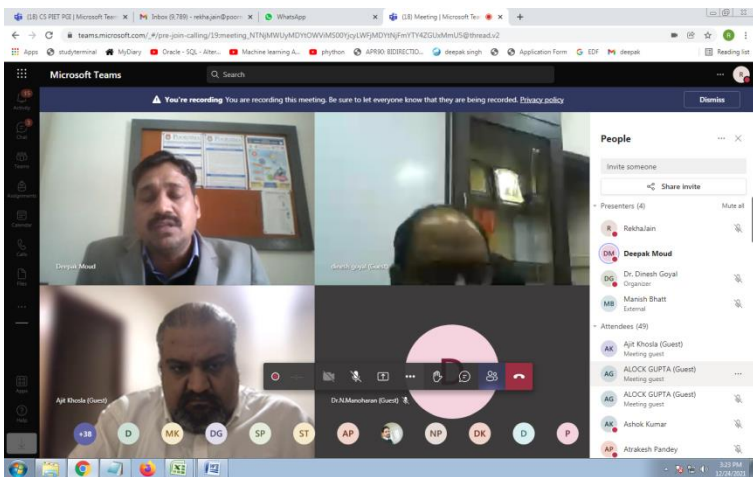
Pics:



Valedictory (3:15 pm -3:45 pm) by Dr Ajit Khosla Faculty of Engineering, Japan

Brief Profile: Ajit Khosla is Professor at Yamagata University, obtained his PhD from Simon Fraser University in 2012, where he was awarded the Dean of Graduate Studies Convocation Medal as one of SFU's most outstanding graduate students in the Faculty of Applied Sciences. He has initiated numerous research projects, and developed collaborations with industry and universities globally, which has resulted in over 120 SCI journal papers, 4 patents and a funding of over \$10 million. He is Founding Editor in Chief of ECS Sensors Plus and co-Editor in Chief of ECS Advances. He is immediate-past Chair of the Electrochemical Society-Sensor Division and Technical Editor of the Journal of the Electrochemical Society and Journal of Solid-State Science and Technology. He also serves on the editorial advisory board of the following journals: 1) IET/IEEE Journal of Nanobiotechnology; 2) Springer-Microsystems Technologies. Prof. Khosla's research program is interdisciplinary in nature and focuses on the development of sustainable 2D, 3D and 4D printable hybrid nanocomposite materials, and compliant system design: with applications in sensors, electronics, energy storage devices, energy harvesting, automotive, aerospace and soft robotics. Dr. Khosla gives a careful consideration while synthesis and designing new materials, and product development so that the processes involved do not compromise the natural environment, or the ability of future generations to maintain sustainable communities.

Pics:




In this refresher program 90 participant got registered. Out of them 42 were eligible for certification. (As per the criteria mentioned in SOP) Lists of Registered persons, their score in exam as well as list of qualified persons are mentioned -

List of Registered persons:

S.N O.	Email Address	Name	Contact No	Designation	Affiliation	Place	State
1	2019phdevenatrakesh7881@poornima.edu.in	Atrakesh Pandey	9899321854	Research Scholar	Poornima University	Jaipur	Rajasthan
2	2020phdevenpawan9202@poornima.edu.in	Pawan Kumar Patidar	9950533204	Research Scholar	Poornima University	Jaipur	Rajasthan
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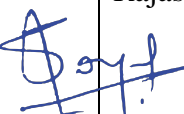
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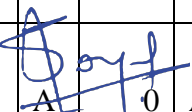
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.Outcomes

- Participants got a better exploration of various applications of Artificial Intelligence.
- They learnt supervised machine learning algorithms and their implementation real time data to make predictions.
- They explored and analyzed unsupervised machine learning algorithms like clustering & association mining on real time data.
- Applied advance concepts like recommender system using Deep learning.
- Identified feature extraction & selection methods using appropriate machine learning model.



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Feedback from Participants

Q. The Session 1 of Refresher Program broadened my understanding of concepts and principles in the field of Artificial Intelligence Using Machine Learning & Deep Learning

Result: Average: 4.65/5

Q. The instructors' knowledge of the subjects was good.

Result: Average: 4.65/5

Q. The instructors explained the material well.

Result: Average: 4.56/5

Q. Handouts/ Presentation of Session-1 were clear and well-organized.

Result: Average: 4.56/5

Q. The Session 2 of Refresher Program broadened my understanding of concepts and principles in the field of Artificial Intelligence Using Machine Learning & Deep Learning

Result: Average: 4.62/5

Q. The instructors' knowledge of the subjects was good.

Result: Average: 4.62/5

Q. The instructors explained the material well.

Result: Average: 4.5/5

Q. Handouts/ Presentation of Session-2 were clear and well-organized.

Result : Average: 4.53/5

Q. The Session 2 of Refresher Program broadened my understanding of concepts and principles in the field of Artificial Intelligence Using Machine Learning & Deep Learning

Result: Average: 4.51/5

Q. The instructors' knowledge of the subjects was good.



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Result: Average: 4.46/5

Q. The instructors explained the material well.

Result: Average: 4.56/5

Q. Handouts/ Presentation of Session-3 were clear and well-organized.

Result: Average: 4.43/5



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Question Papers



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