A

Report on

Student Workshop on

“Artificial Intelligence & Machine Learning”

19th -23rd April 2021

Organized by

Department of Computer Science & Engg. and IT
Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Conducted By TCS

Submitted by:

Nidhi Srivastav

Pankaj Jadwal

Department of CSE

Dolly Mittal

Shalini Singhal

Department of IT

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1. About SKIT:-

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), inspired from the learnings of Swami Keshvanand, was established in the year 2000 by Technocrats and Managers Society for Advanced Learning. Today, the Institute is recognized as one of the centers of academic excellence in Northern India. The Institute is affiliated to Rajasthan Technical University, Kota for offering Ph. D., Postgraduate and Graduate Courses in Engineering and Management.

Located in the Pink City Jaipur, which is a blend of traditional history and modern outlook, SKIT is putting in efforts for making industry ready engineers and managers through effective Industry –Institute Interface. Apart from University curriculum, SKIT also pursues activities for research and development in various fields.

The green landscaping, aesthetic elegance of arches and the vibrant pursuit of knowledge by the young aspirants make the environment serene, pleasant and dynamic.

Students joining the institute share the box full of opportunities for professional and personal development through an environment of practical orientation, industrial interaction and student led activities which help the students to develop good communication skills, integrated personality and greater competitive spirit.

Swami Keshvanand, an orphan, illiterate, nomadic man who never received formal education, was the founder of more than 300 schools,

50 hostels and innumerable libraries, social service centers and museums. Swami Keshvanand had a deep understanding of the rural society of the desert region. He had explained the peculiarities of the desert region, identified the problems and suggested appropriate and logical solutions. It was Swami Keshvanand's

lifelong endeavour to eradicate social evils like untouchability, child marriage, indebtedness, poverty, backwardness, alcohol abuse, moral dissipation etc.

Vision

To promote higher learning in advanced technology and industrial research to make our country a global player

Mission

To promote quality education, training and research in field of Engineering by establishing effective interface with industry and to encourage faculty to undertake industry sponsored projects for students.

Quality Policy

We are committed to 'achievement of quality' as an integral part of our institutional policy by continuous self-evaluation and striving to improve ourselves.

Institute would pursue quality in

- All its endeavours like admissions, teaching- learning processes, examinations, extra and co-curricular activities, industry institution interaction, research & development, continuing education, and consultancy.
- Functional areas like teaching departments, Training & Placement Cell, library, administrative office, accounts office, hostels, canteen, security services, transport, maintenance section and all other services."

2. Approval Letter of the Workshop

--------- Forwarded message ---------
From: **Rajit Sikka** <rajit.sikka@tcs.com>
Date: Mon, Apr 12, 2021 at 1:29 PM
Subject: RE: Credit course AI
To: Prof. Anil Chaudhary <hodit@skit.ac.in>
Cc: Ajay Singh <ajaykumar.singh@tcs.com>

Dear Sir

We will cover the following over the sessions . Pl share the Link

1) AI - Logics- propositional logics, (2) AI - First Order Predicate Logics (FOPL), (3) AI - Properties of Wff, AI - (4)Clausal Forms, (5) AI - Syntax of First Order Predicate Logics

Regards

Rajit Sikka
Tata Consultancy Services
Phone +91-11-66506418
Buzz: 4116418
Mobile +91-11-9250008027
Mail rajit.sikka@tcs.com
Website http://www.tcs.com

Experience certainty. IT Services
Business Solutions
Consulting

From: Prof. Anil Chaudhary <hodit@skit.ac.in>
Sent: Monday, April 12, 2021 2:13 PM
To: Rajit Sikka <rajit.sikka@tcs.com>
Cc: Ajay Singh <ajaykumar.singh@tcs.com>
Subject: Re: Credit course AI

"External email. Open with Caution"

Dear Rajit,

Thank you for confirmation kindly share the teaching/training program for the same.

regards,

anil

On Mon, Apr 12, 2021 at 12:43 PM Rajit Sikka <rajit.sikka@tcs.com> wrote:

> Dear Prof
>
> Yes ,
>
> We will do from 19 April – 2pm
>
> Pl share link
>
> Regards
>
> Rajit Sikka
> Tata Consultancy Services

Phone +91-11-66506418
Buzz: 4116418
Mobile +91-11-9250008027
Mail rajit.sikka@tcs.com
Website http://www.tcs.com

Experience certainty. IT Services
Business Solutions
Consulting

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3. Committee of Workshop

Workshop is organized by Department of Computer Science & Engg. and Department of IT

Coordinators of Workshop are:

1. Pankaj Jadwal
2. Nidhi Srivastav
3. Dolly Mittal
4. Shalini Singhal

4. Objective of the Workshop:-

- To understand the concepts of Artificial Intelligence.
- To get a better understanding of knowledge Representation.
- To gain knowledge about Propositional Logic and Predicate logic
- To have a brief Introduction about the Machine Learning

5. Content of the Workshop:-

- Introduction to AI and its approaches
- Logics-Propositional Logic
- First Order Predicate Logic
- Properties of WFF
- Clausal Form
- Syntax of First Order Predicate logic
- Machine Learning Introduction

6. Expert Details

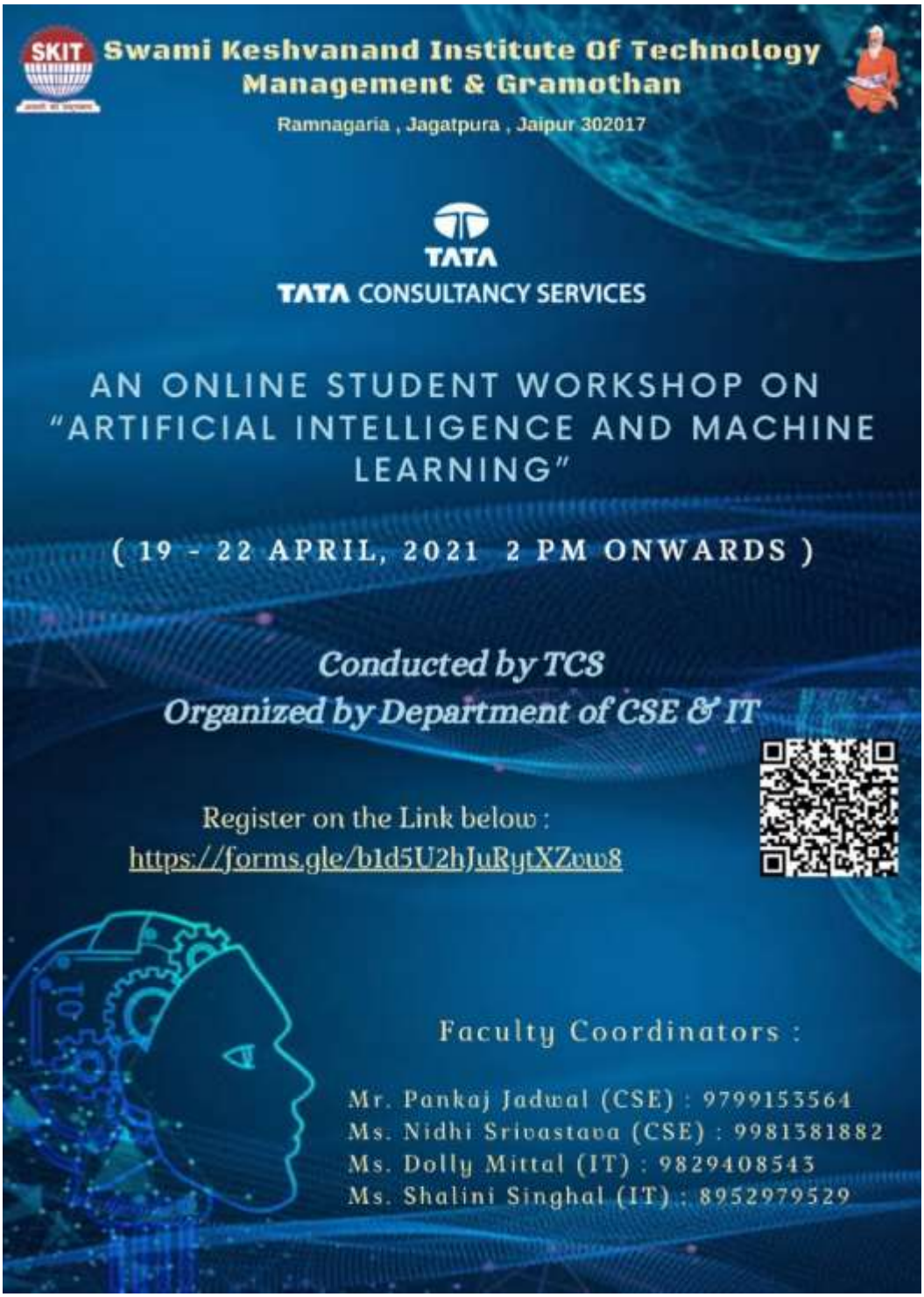
Mr. Ajay Singh has more than 26 years of experience and had worked in various capacity from system engineer to solution architect and delivery owner. He Started his carrier with CMC Limited in late 90's and was associated with Indian Government IT enablement. Key projects to name were: Indian Railways Passenger Information system , Indian Railways Freight Operations Information System (FOIS) - Pilot development and implementation of FOIS across 130 Locations, Gas Authority of India Limited - Project Manager of their IT Infrastructure Management and had done the country wide migration, Hisar Agriculture University Campus wide network , Email Solution and network security.

He has worked on Many reputed international projects as project manager / Delivery Manager. He has been associated with critical solution design from TCS some of them are - UIADI, DOP, and Smart Cities. Currently he heads the delivery excellence for CBO for Delhi NCR region.

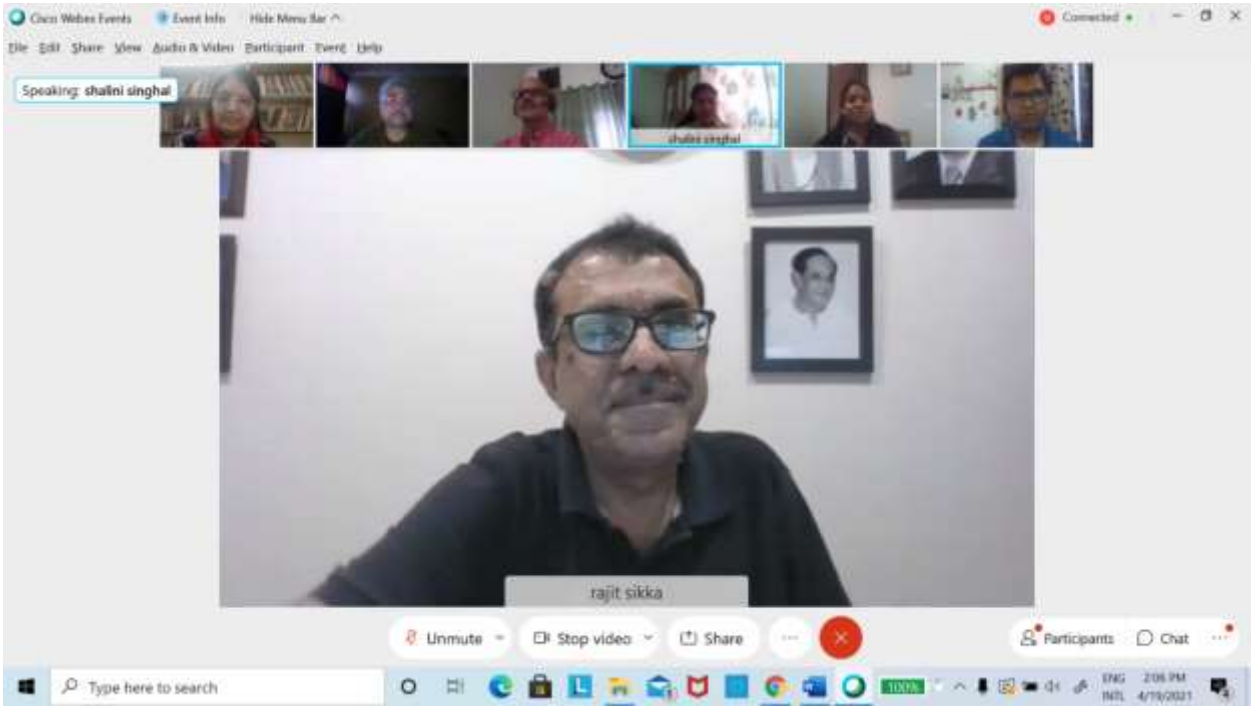
7. Workshop Schedule

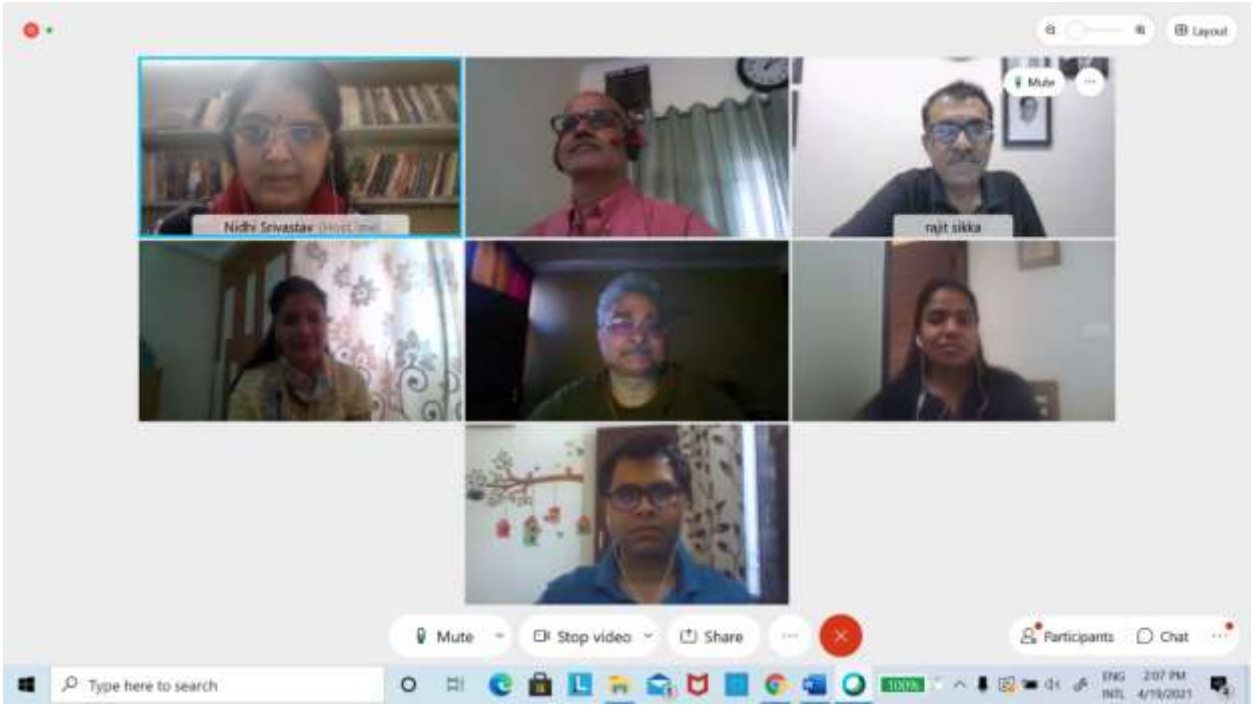
S.no	Date	Time	Speaker
1	19th April 2021	2:00-2:15 PM (Inaugral)	Mr. Rajit Sikka,TCS
2	19th April 2021	2:15-3:00 PM	Mr Ajay Singh,TCS
3	20th April 2021	2:00-3:00 PM	Mr Ajay Singh,TCS
4	21st April 2021	2:00-3:00 PM	Mr Ajay Singh,TCS
5	22nd April 2021	2:00-3:00 PM	Mr Ajay Singh,TCS
6	23rd April 2021	2:00-3:00 PM	Mr Ajay Singh,TCS

8. Workshop Brochure



9. Glimpses of Inaugration Ceremony




Layout
Nidhi Srivastav
Mute
rajit sikka
Mute
Stop video
Share
Participants
Chat
Type here to search

10. News Coverage

एसकेआईटी मे आर्टिफिशियल इंटेलिजेंस एंड मशीन लर्निंग पर पांच दिवसीय छात्र कार्यशाला शुरू

P3 Police Public Politics

जयपुर । स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोथन, में ञ्जष्टस् द्वारा संचालित ÷आर्टिफिशियल इंटेलिजेंस एंड मशीन लर्निंग÷ पर पांच दिवसीय छात्र कार्यशाला का प्रो अनिल चौधरी (हेड आईटी) एवं प्रो मुकेश कुमार गुप्ता (हेड सीएसई) के मार्गदर्शन में कंप्यूटर विज्ञान और इंजीनियरिंग और आई टी विभाग में शुरू किया गया।

इस अवसर पर हेड आईटी प्रो अनिल चौधरी ने सभी गणमान्य व्यक्तियों और प्रतिभागियों का ऑनलाइन मंच पर स्वागत किया। टीसीएस से समन्वयक कार्यशाला श्री रजित सिक्का ने इस कार्यशाला के महत्व पर इंडस्ट्री - इंस्टिटयूट के अंतर को भरने के लिए एक साधन के रूप में विचार-विमर्श किया। टीसीएस के श्री अजय सिंह ने सत्र के पहले दिन आर्टिफिशियल इंटेलिजेंस के महत्व को और तर्क के रूप में एआई तथ्यों का प्रतिनिधित्व किया। यह कार्यशाला पंकज जडवाल, निधि श्रीवास्तव, डॉली मित्तल और शालिनी सिंघल ष्टस्श्व × ढ्ढञ्ज विभाग के समन्वय में 19 अप्रैल -23 अप्रैल से आयोजित की जा रही है।

45 minutes ago

एआइ एंड मशीन लर्निंग पर कार्यशाला शुरू

जयपुर ◆ स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी (एसकेआइटी) मे टीसीएस की ओर से 'आर्टिफिशियल इंटेलिजेंस एंड मशीन लर्निंग' पर पांच दिवसीय कार्यशाला की शुरुआत मंगलवार से हुई। इस मौके पर वक्ताओं ने वर्तमान मे एआइ एवं मशीन लर्निंग की महत्ता एवं उपयोगिता पर प्रकाश डाला। कार्यशाला का संचालन कॉलेज के आइटी हैड प्रो. अनिल चौधरी और सीएसई हैड प्रो. मुकेश कुमार गुप्ता ने किया। टीसीएस से रजित सिक्का ने इंडस्ट्री - इंस्टीटयूट के अंतर को भरने के लिए तर्क दिए। अजय सिंह ने सत्र को संबोधित किया। कार्यशाला पंकज जडवाल, निधि श्रीवास्तव, डॉली मित्तल और शालिनी सिंघल के कॉर्डिनेशन मे आयोजित हो रही है। कॉलेज के निदेशक जयपाल मील ने सभी का आभार जताया।

Technologically ahead

CITY FIRST

A five-day workshop focusing on 'Artificial Intelligence and Machine Learning' conducted by TCS began on Monday at the Department of Computer Science & Engineering and Information Technology, under the guidance of Prof Dr Anil Choudhary (Head IT), Dr Mukesh Kumar Gupta (Head CSE) at Swami Keshvanand Institute of Technology, Management & Gramothan. Rajit Sikka, Coordinator Workshop from TCS deliberated on the importance of this workshop as a means to fill the Industry Academia gap, whereas, Ajay Singh explained the importance of AI.

Pankaj Jadwal, Nidhi Srivastav, Dolly Mittal and Shalini Singhal from the Department of CSE & IT will be conducting sessions in the following days.

cityfirst@firstindia.co.in

11. DayWise Execution of Workshop

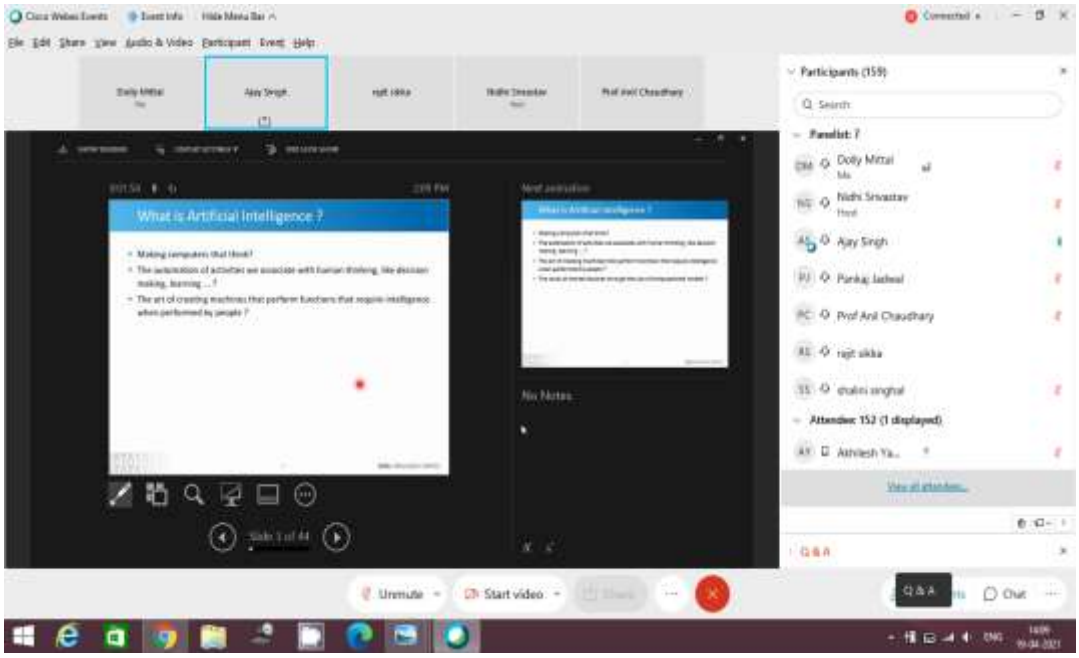
A 5 day workshop on "Artificial Intelligence and Machine Learning" in collaboration with TCS was started on April 19th, 2021.

Day-1

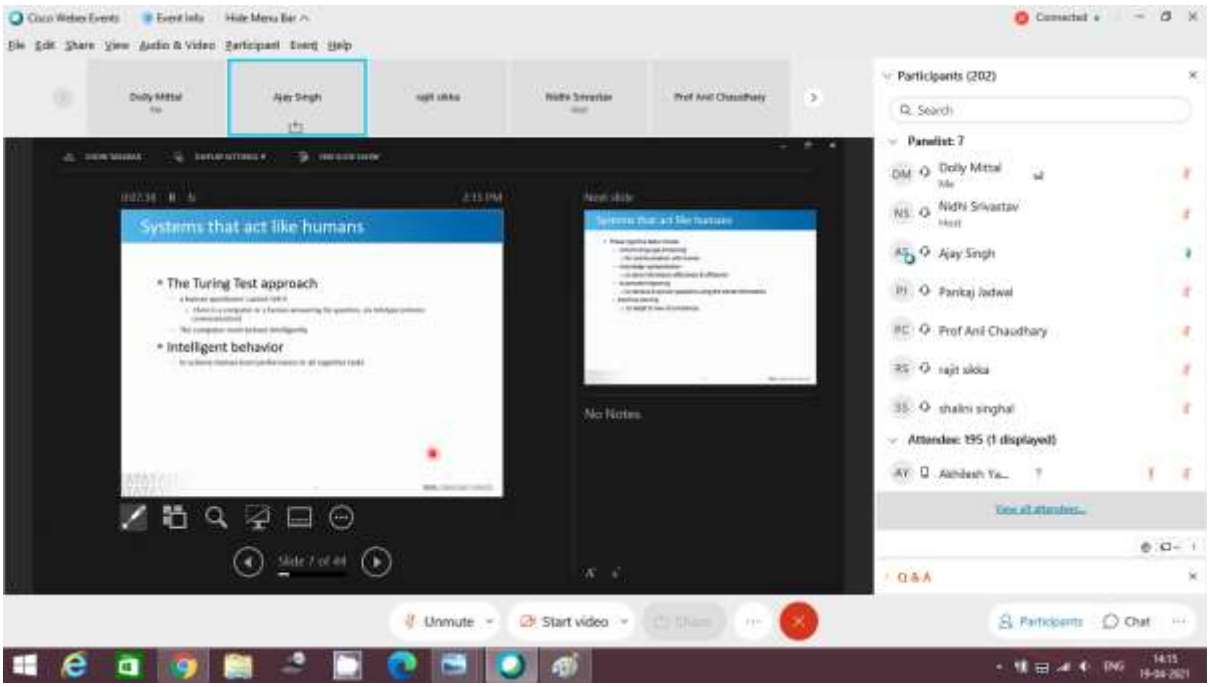
Date: 19/04/2021

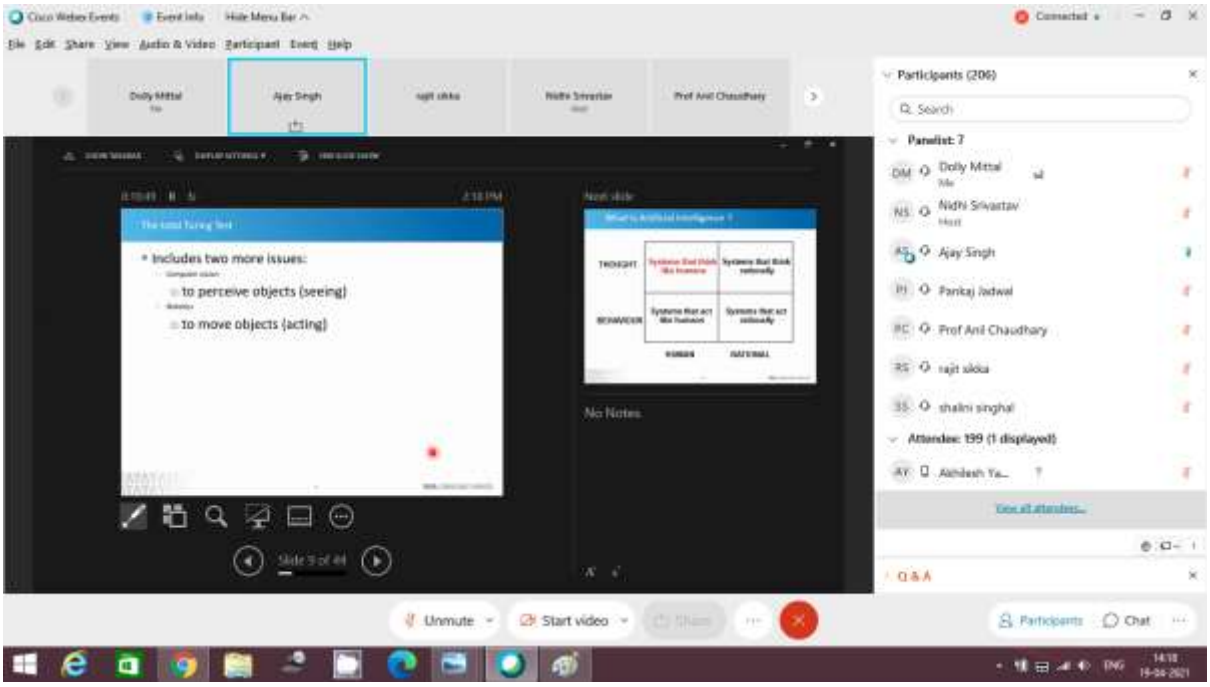
Time: 2:00-3:00 PM

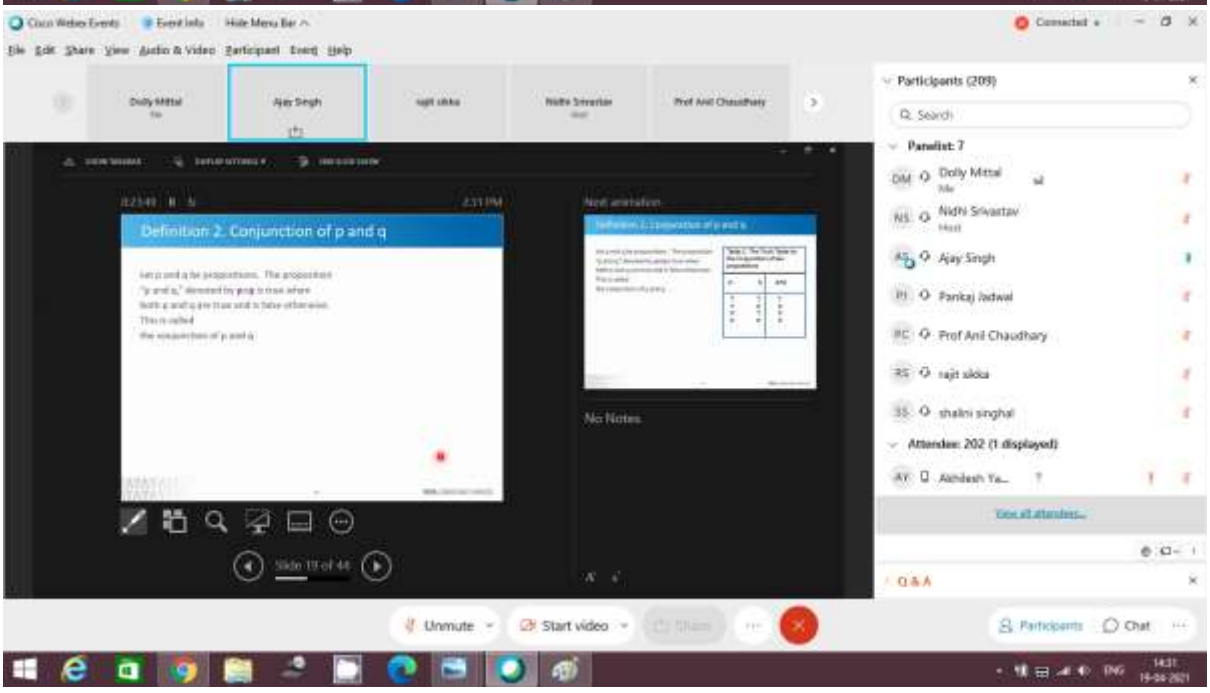
- ✓ Session was started with inaugural ceremony where Mr. Rajit Sikka from TCS sharing about the "Academic Interface Program Group" at TCS. TCS conducts various Faculty connect Program, student connect Program, gaming contests and Internship program as part of this group.
- ✓ Mr. Ajay Singh discussed about areas of AI and dependencies between them. He also explains about Artificial Intelligence and different approaches of AI. He also covered proposition logics in AI.

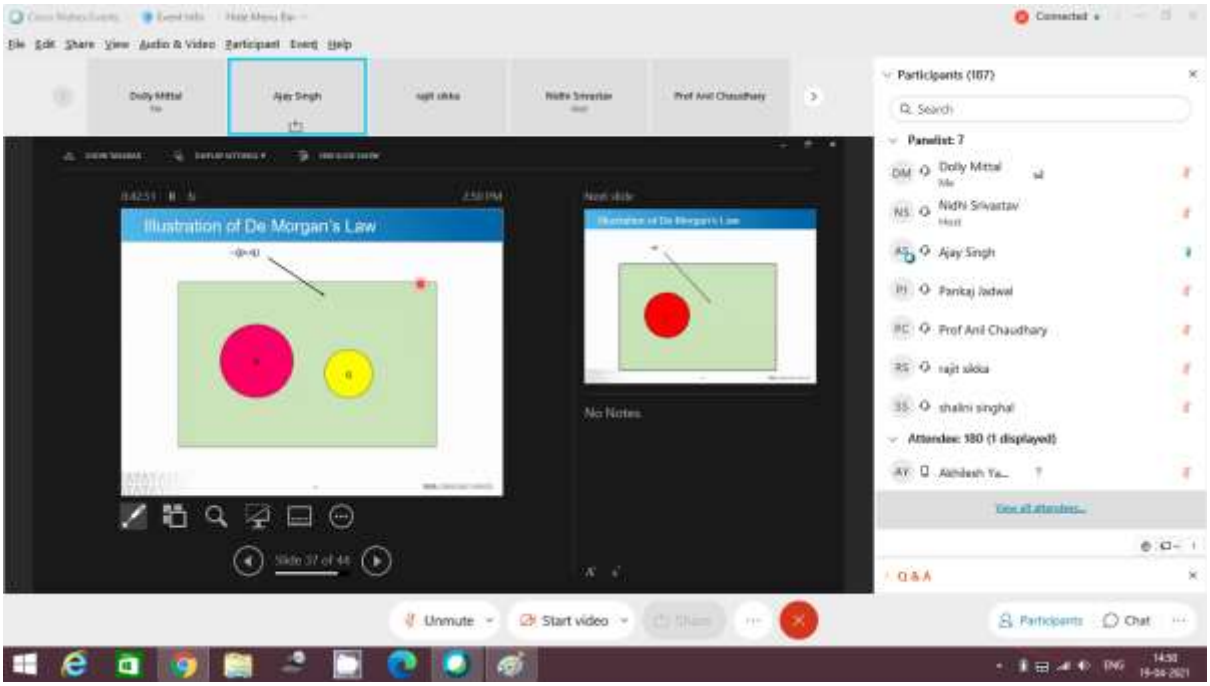

What is Artificial Intelligence ?
Participants (159)
Panelist: 7
Dolly Mittal
Nidhi Srivastav
Ajay Singh
Pankaj Jadwal
Prof Anil Chaudhary
rajit sikka
shalini singhal
Attendee: 152 (1 displayed)
No Notes
Unmute
Start video
Q & A
Chat

✓


Systems that act like humans
• The Turing Test approach
• Intelligent behavior
Participants (202)
Panelist: 7
Dolly Mittal
Nidhi Srivastav
Ajay Singh
Pankaj Jadwal
Prof Anil Chaudhary
rajit sikka
shalini singhal
Attendee: 195 (1 displayed)
No Notes
Unmute
Start video
Participants
Chat


Participants (206)
Search
Panelist: 7
Dolly Mittal
Nidhi Srivastav
Ajay Singh
Pankaj Jadwal
Prof Anil Chaudhary
rajit sikka
shalini singhal
Attendee: 199 (1 displayed)
Aishlesh Ya...
Q & A
Includes two more issues:
to perceive objects (seeing)
to move objects (acting)
No Notes
Unmute
Start video
Participants
Chat


Participants (209)
Search
Panelist: 7
Dolly Mittal
Nidhi Srivastav
Ajay Singh
Pankaj Jadwal
Prof Anil Chaudhary
rajit sikka
shalini singhal
Attendee: 202 (1 displayed)
Aishlesh Ya...
Q & A
Definition 2: Conjunction of p and q
No Notes
Unmute
Start video
Participants
Chat

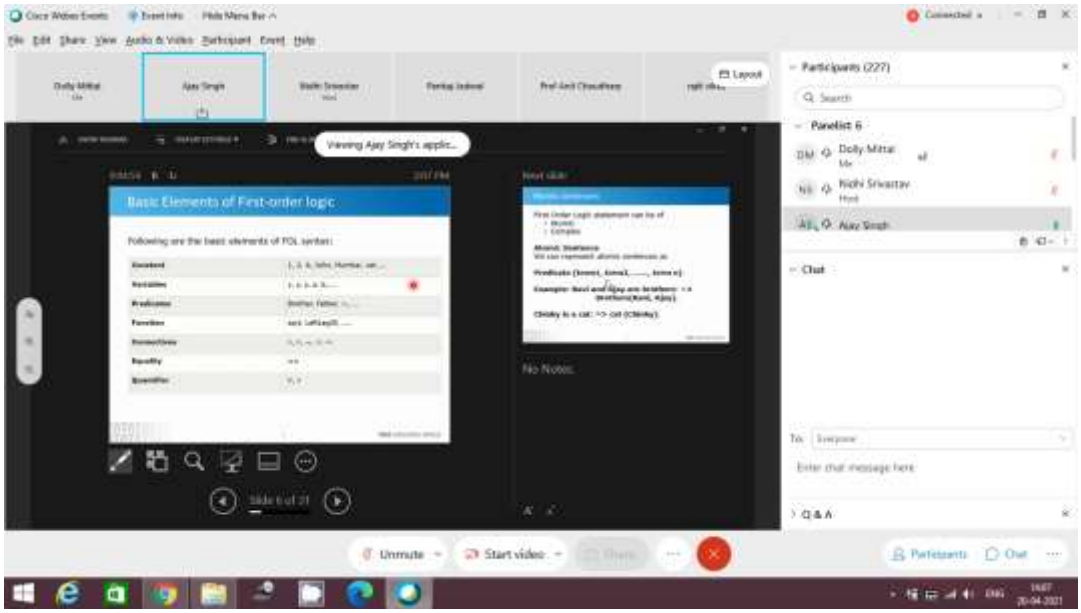


Day-2:

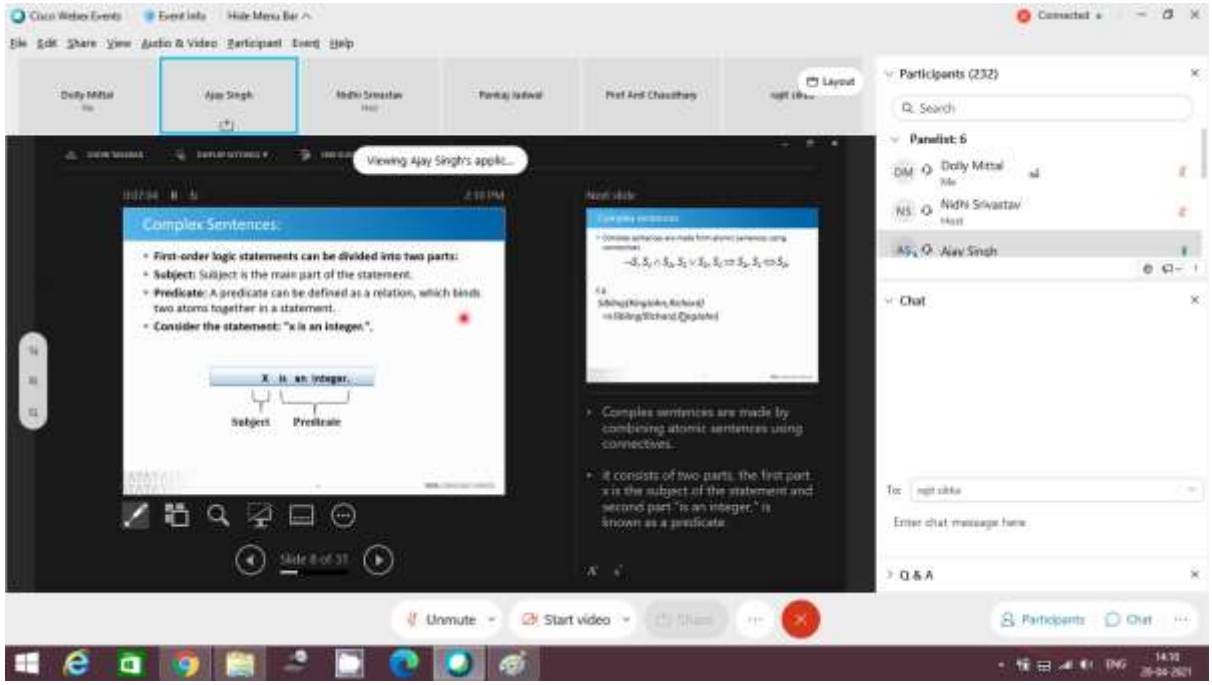
Date: 20/04/2021

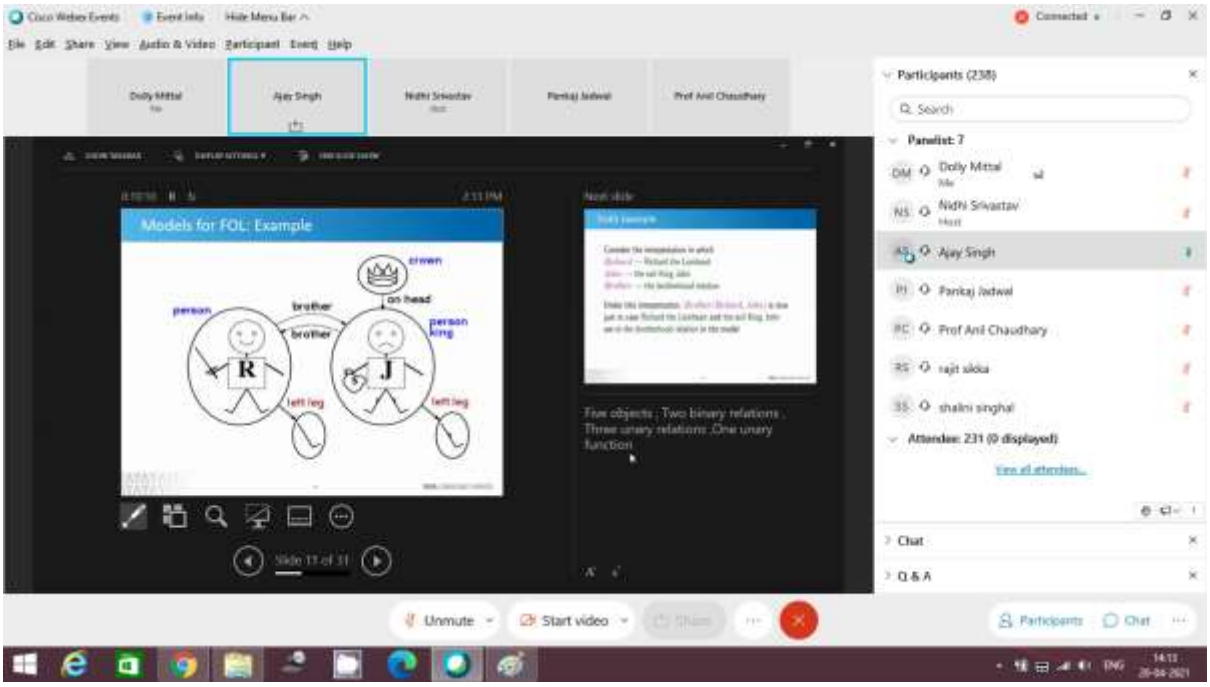
Time: 2:00-3:00 PM

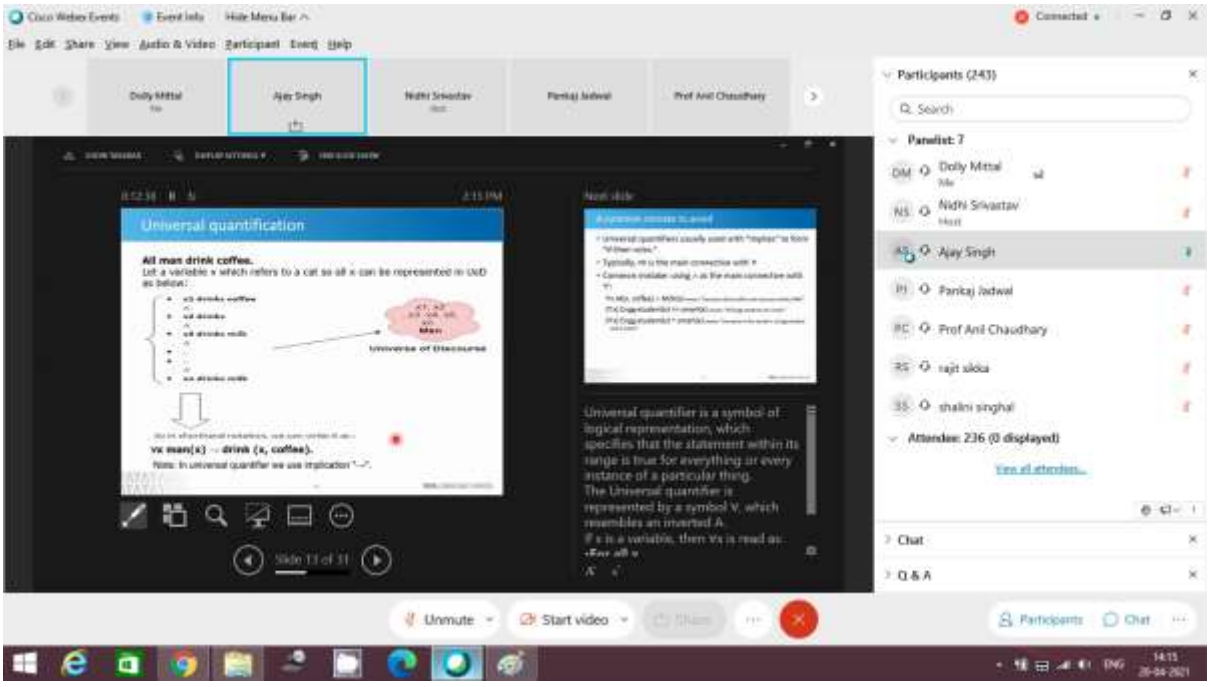
- ✓ Mr. Ajay Singh discussed about First order Predicate logic and how to write facts into logic.
- ✓ He explains the process of converting facts into FOL.
- ✓ He illustrate conversion of Facts into logic and then in CNF by different examples.

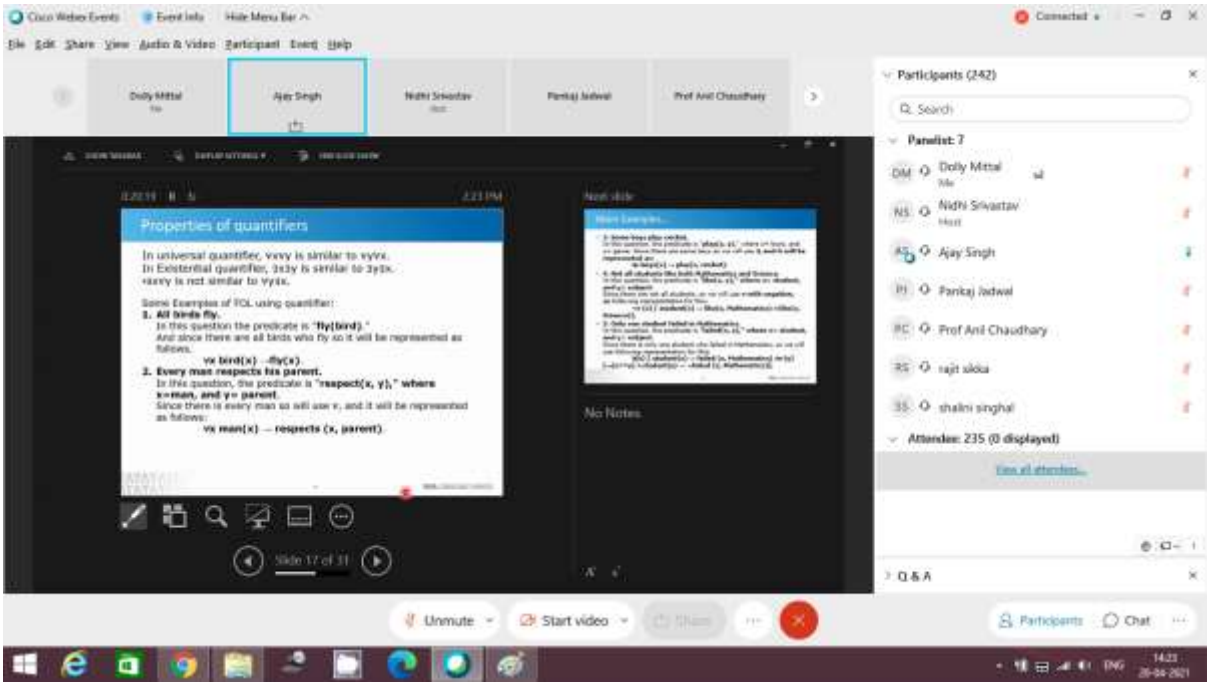

Basic Elements of First-order logic
Participants (227)
Panelist: 6
Dolly Mittal
Nidhi Srivastav
Ajay Singh
Chat
Q & A
Unmute
Start video
Participants
Chat

✓


Complex Sentences:
First-order logic statements can be divided into two parts:
Subject: Subject is the main part of the statement.
Predicate: A predicate can be defined as a relation, which binds two atoms together in a statement.
Consider the statement: "x is an integer.".
x is an integer.
Subject
Predicate
Complex sentences are made by combining atomic sentences using connectives.
it consists of two parts, the first part x is the subject of the statement and second part "is an integer," is known as a predicate.
Participants (232)
Panelist: 6
Dolly Mittal
Nidhi Srivastav
Ajay Singh
Chat
Q & A
Unmute
Start video
Participants
Chat


Models for FOL: Example
crown
on head
person
brother
brother
person
king
R
J
left leg
left leg
Five objects ; Two binary relations ,
Three unary relations ,One unary
function
Participants (238)
Panelist: 7
Dolly Mittal
Nidhi Srivastav
Ajay Singh
Pankaj Jadwal
Prof Anil Chaudhary
rajit sikka
shalini singhal
Attendee: 231 (0 displayed)
Chat
Q & A
Unmute
Start video
Participants
Chat


Universal quantification
All man drink coffee.
Let a variable x which refers to a set so all x can be represented in UoD
as below:
universe of discourse
man
∀x man(x) → drink (x, coffee).
Note: In universal quantifier we use implication "→".
Universal quantifier is a symbol of
logical representation, which
specifies that the statement within its
range is true for everything or every
instance of a particular thing.
The Universal quantifier is
represented by a symbol ∀, which
resembles an inverted A.
If x is a variable, then ∀x is read as:
•For all x
Participants (243)
Panelist: 7
Dolly Mittal
Nidhi Srivastav
Ajay Singh
Pankaj Jadwal
Prof Anil Chaudhary
rajit sikka
shalini singhal
Attendee: 236 (0 displayed)
Chat
Q & A
Unmute
Start video
Participants
Chat

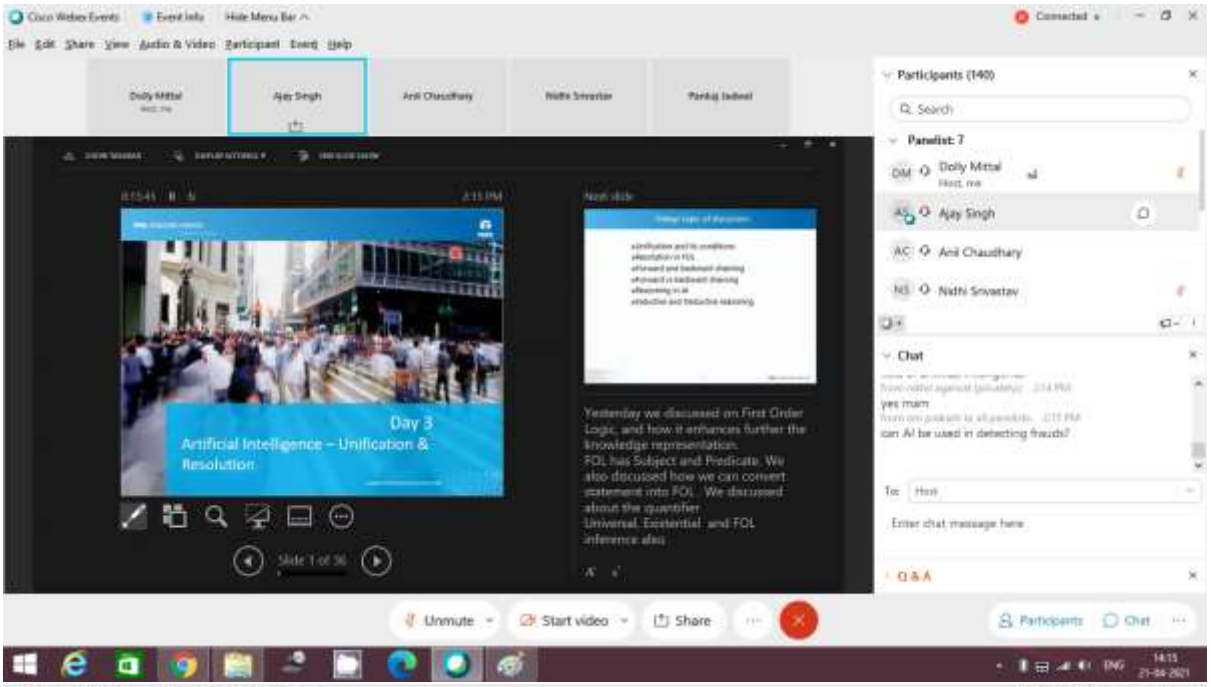


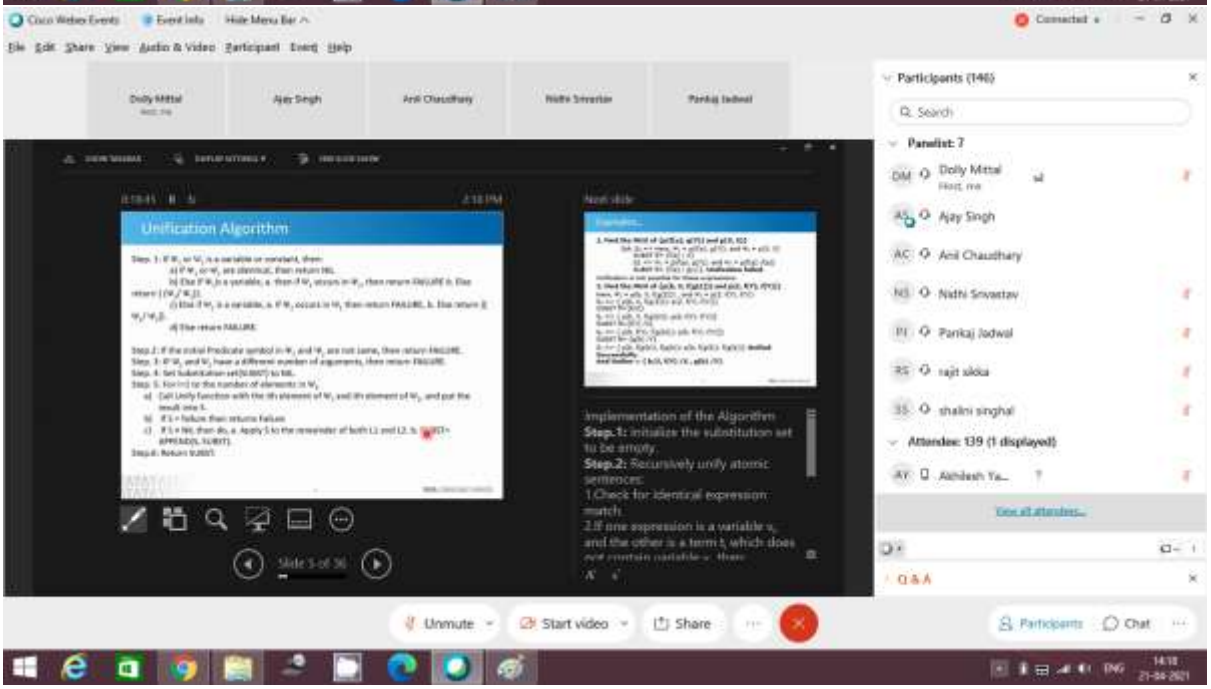
Day-3:

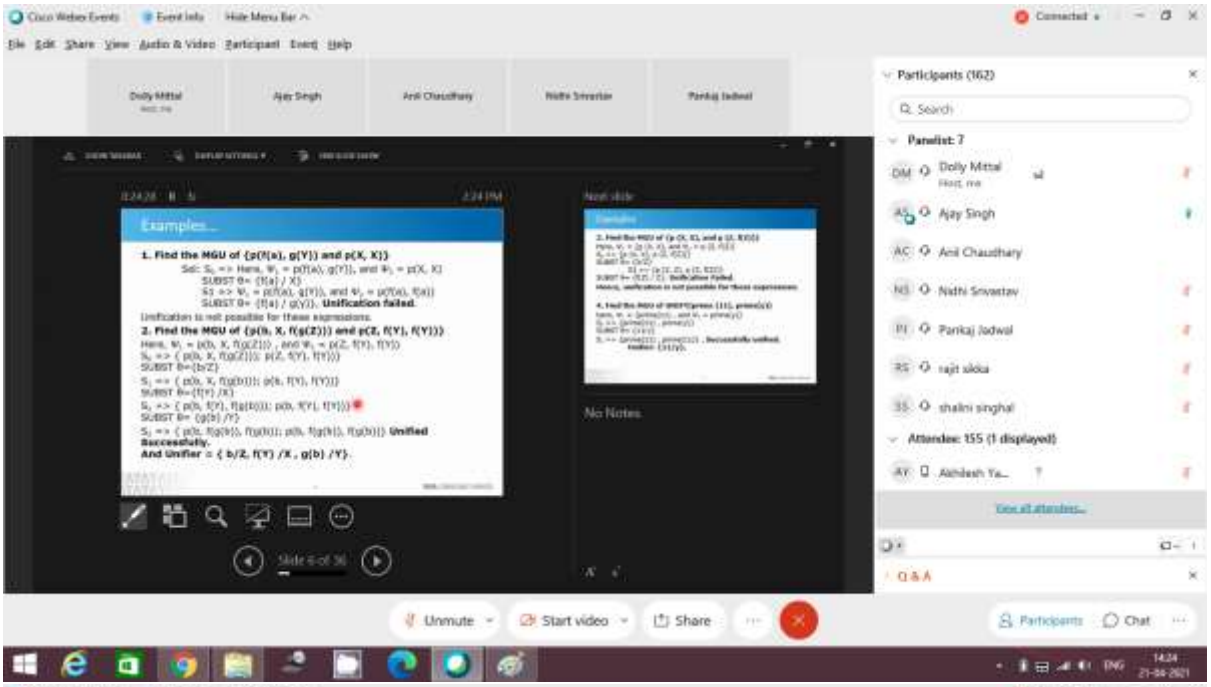
Date: 21/04/2021

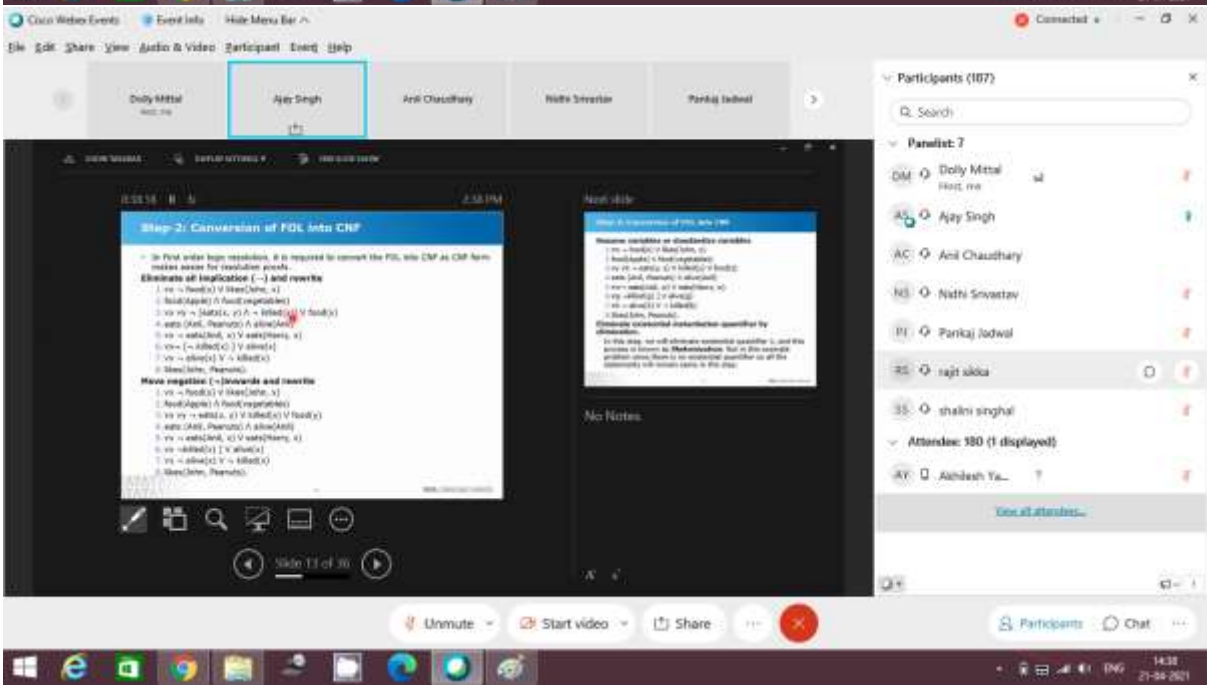
Time: 2:00-3:00 PM

- ✓ Mr. Ajay Singh discussed about unification and resolution in FOL
- ✓ Explain Forward and backward chaining and difference between them.
- ✓ Explain inductive and deductive reasoning in AI.


Participants (140)
Panelist: 7
Dolly Mittal
Ajay Singh
Anil Chaudhary
Nidhi Srivastav
Chat
yes mam
can AI be used in detecting frauds?
Day 3
Artificial Intelligence – Unification & Resolution
Yesterday we discussed on First Order Logic, and how it enhances further the knowledge representation.
FOL has Subject and Predicate. We also discussed how we can convert statement into FOL . We discussed about the quantifier
Universal, Existential and FOL inference also.
Unmute
Start video
Share
Participants
Chat


Participants (146)
Panelist: 7
Dolly Mittal
Ajay Singh
Anil Chaudhary
Nidhi Srivastav
Pankaj Jadwal
rajit sikka
shalini singhal
Attendee: 139 (1 displayed)
Unification Algorithm
Implementation of the Algorithm
Step.1: Initialize the substitution set to be empty.
Step.2: Recursively unify atomic sentences:
1.Check for identical expression match
Unmute
Start video
Share
Participants
Chat


Examples...
1. Find the MGU of {p(f(a), g(Y)) and p(X, X)}
2. Find the MGU of {p(b, X, f(g(Z))) and p(Z, f(Y), f(Y))}
Unified Successfully.
And Unifier = { b/Z, f(Y) /X , g(b) /Y}.
No Notes
Participants (162)
Panelist: 7
Attendee: 155 (1 displayed)
Unmute
Start video
Share
Participants
Chat


Step 2: Conversion of FOL into CNF
No Notes
Participants (107)
Panelist: 7
Attendee: 100 (1 displayed)
Unmute
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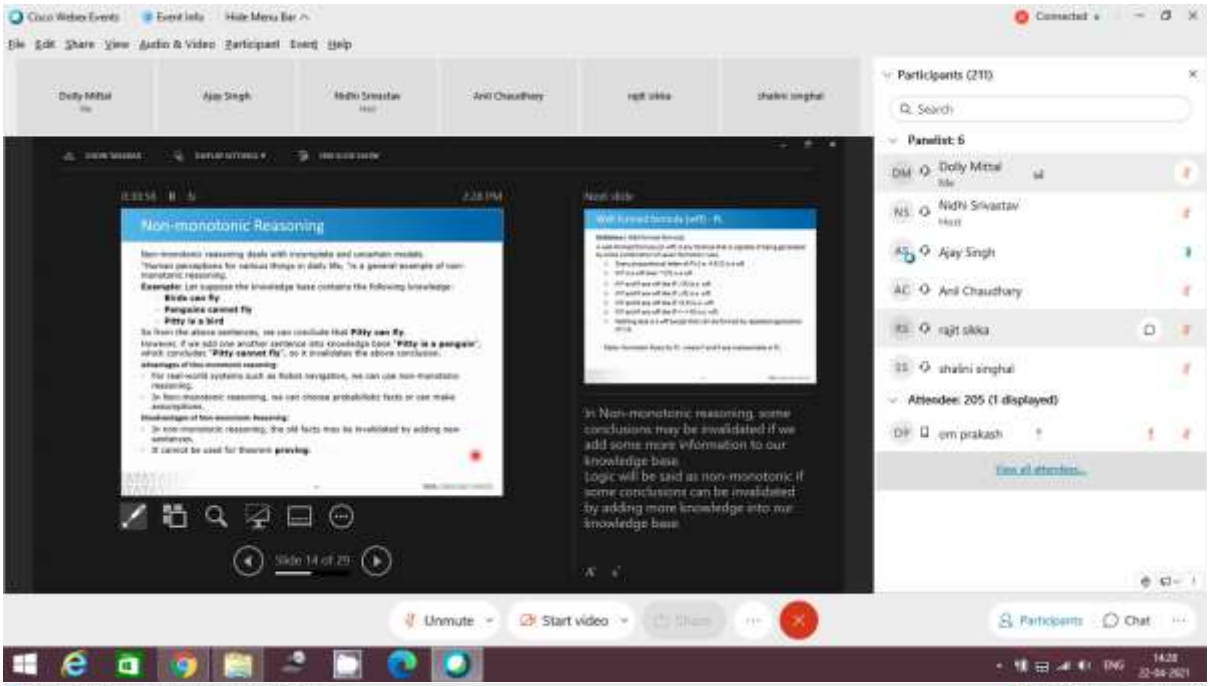
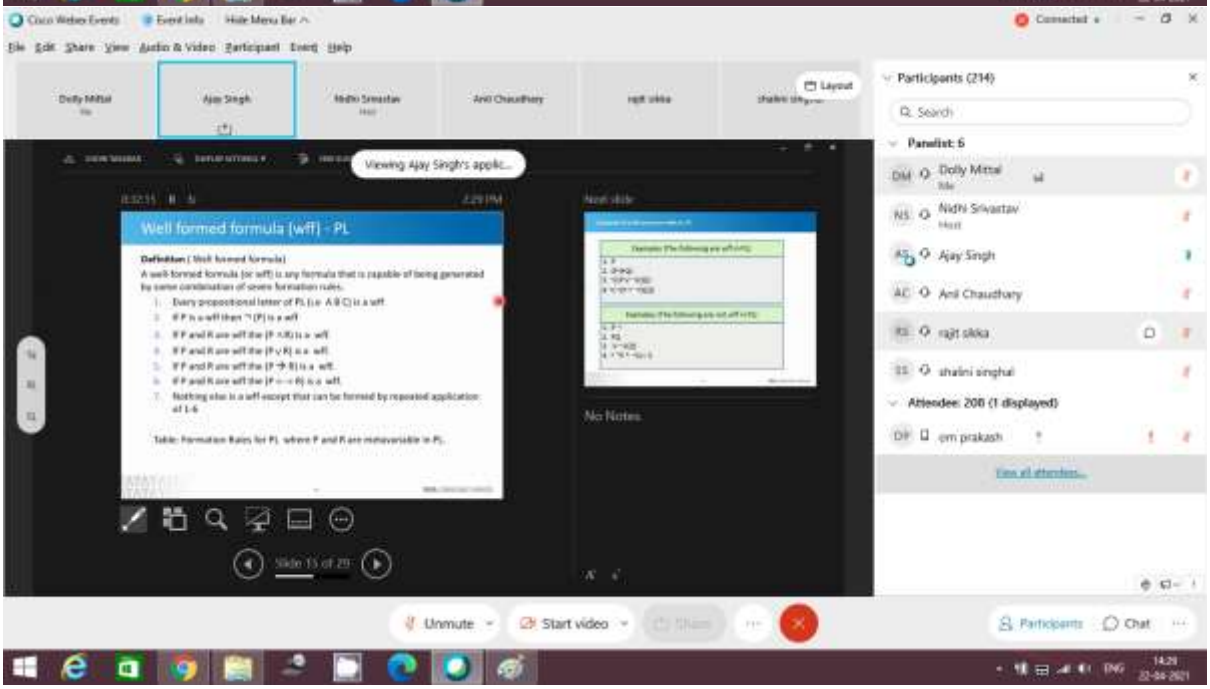
Day-4:

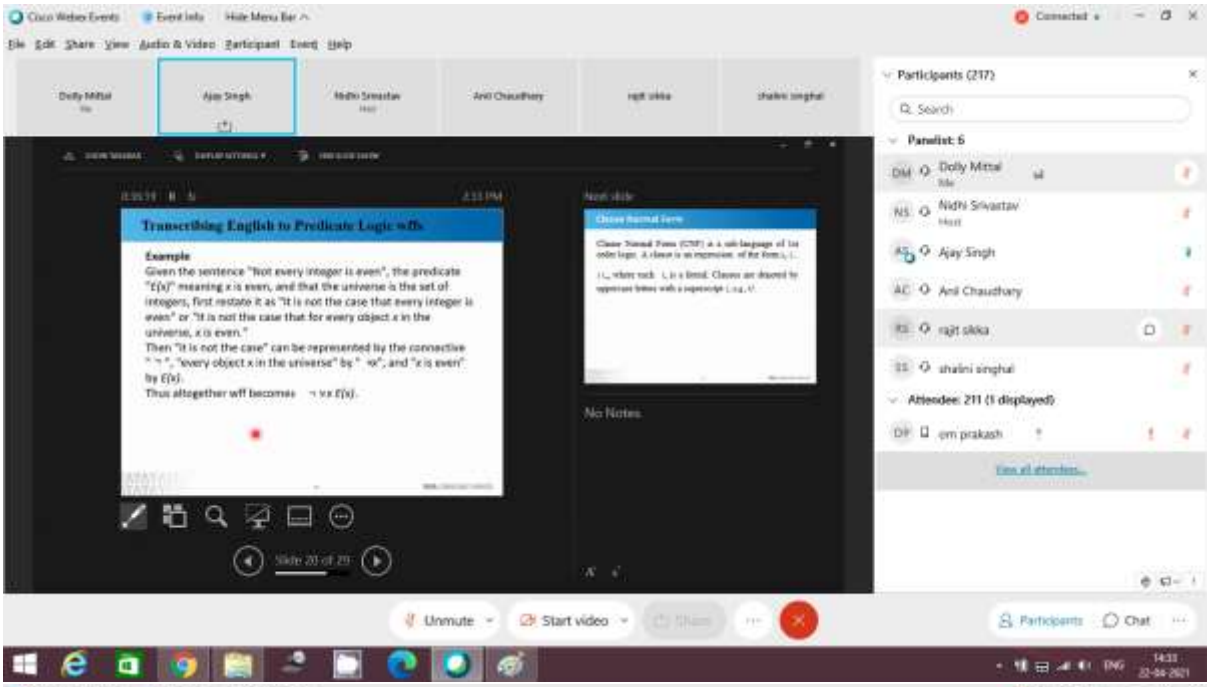
Date: 22/04/2021

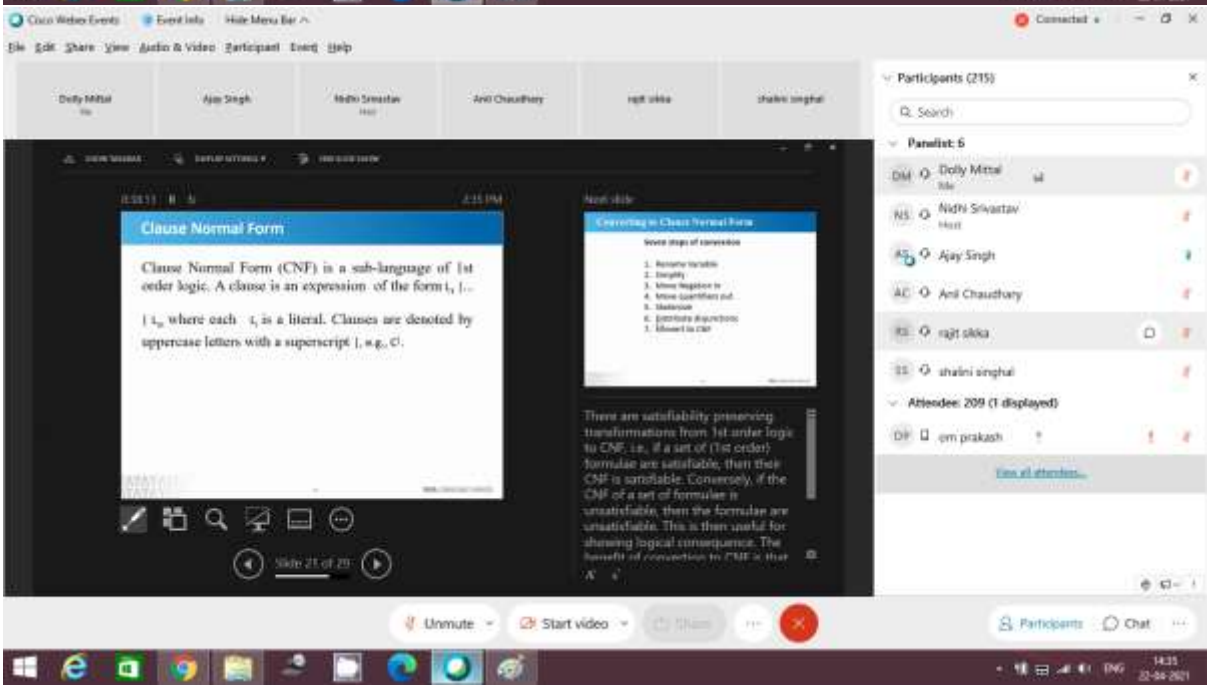
Time: 2:00-3:00 PM

- ✓ Mr. Ajay Singh discussed about Properties of Well formed formula.
- ✓ Explain all the steps of converting First order formula like moving negations, moving quantifiers, distributing disjunctions into Clausal Form






Transcribing English to Predicate Logic wffs
Example
Given the sentence "Not every integer is even", the predicate "E(x)" meaning x is even, and that the universe is the set of integers, first restate it as "It is not the case that every integer is even" or "It is not the case that for every object x in the universe, x is even."
Then "it is not the case" can be represented by the connective " ¬ ", "every object x in the universe" by " ∀x", and "x is even" by E(x).
Thus altogether wff becomes ¬ ∀x E(x).
No Notes
Participants (217)
Panelist: 6
Attendee: 211 (1 displayed)
Unmute
Start video
Participants
Chat

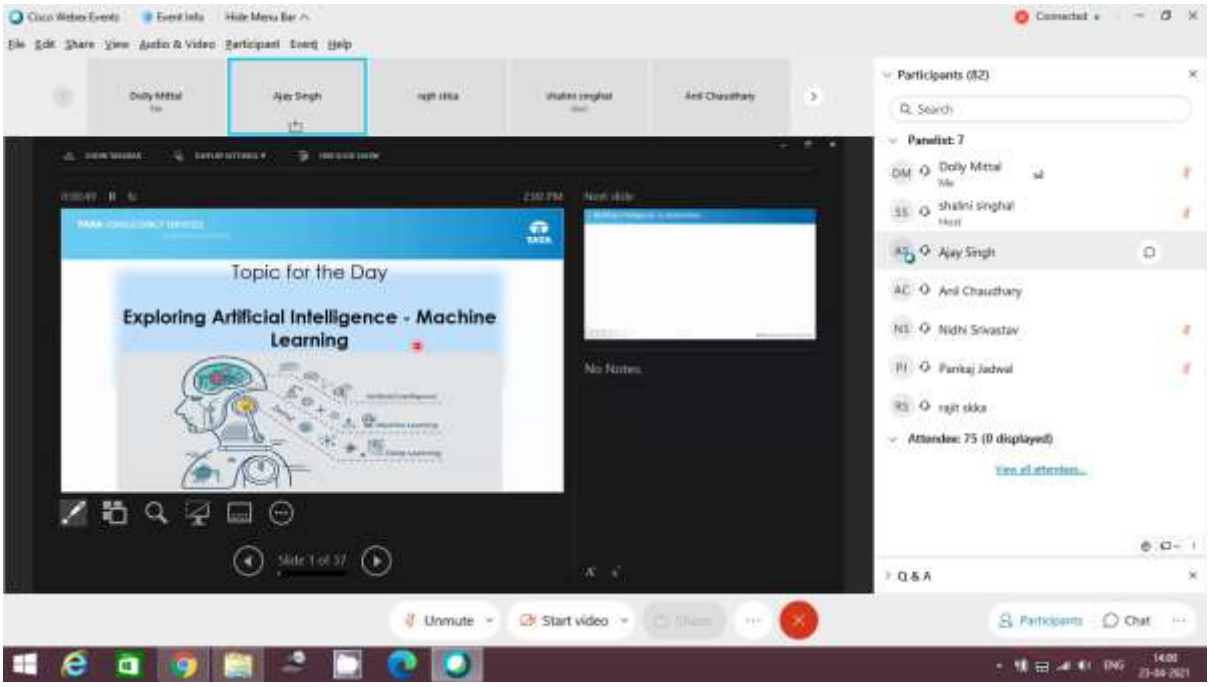

Clause Normal Form
Clause Normal Form (CNF) is a sub-language of 1st order logic. A clause is an expression of the form $l_1 \vee \ldots \vee l_n$ where each l_i is a literal. Clauses are denoted by uppercase letters with a superscript l, e.g., C^l.
There are satisfiability preserving transformations from 1st order logic to CNF, i.e., if a set of (1st order) formulae are satisfiable, then their CNF is satisfiable. Conversely, if the CNF of a set of formulae is unsatisfiable, then the formulae are unsatisfiable. This is then useful for showing logical consequence. The
Participants (215)
Panelist: 6
Attendee: 209 (1 displayed)
Unmute
Start video
Participants
Chat

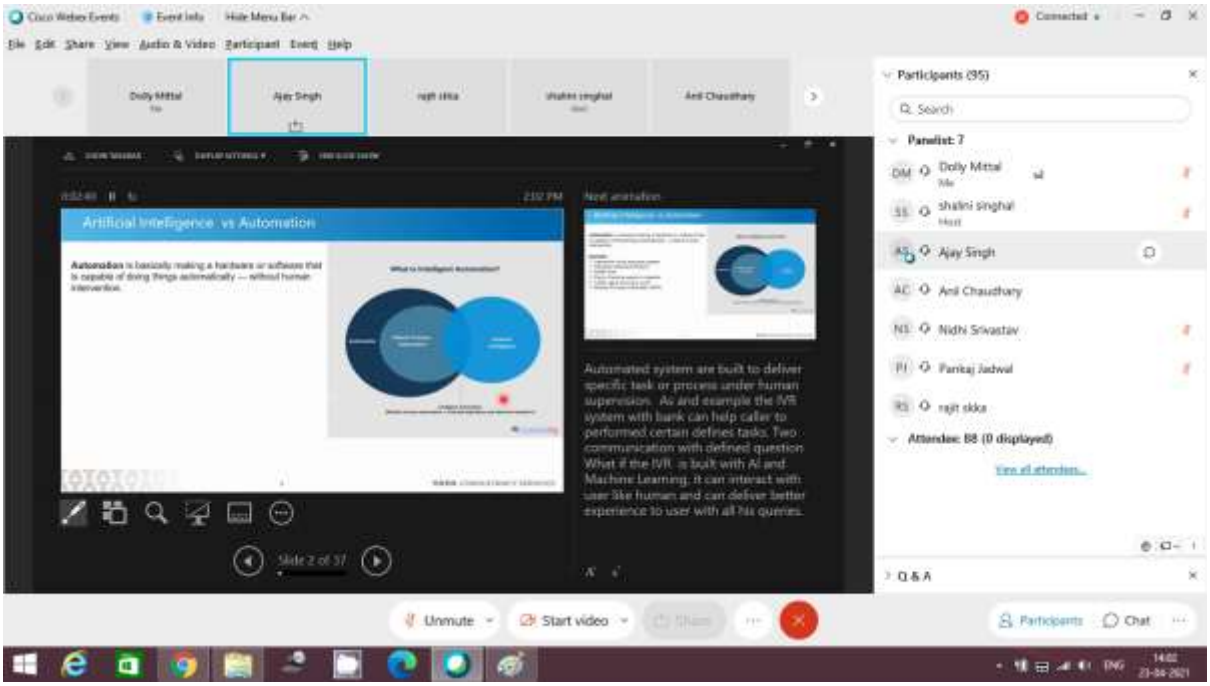
Day-5:

Date: 23/04/2021

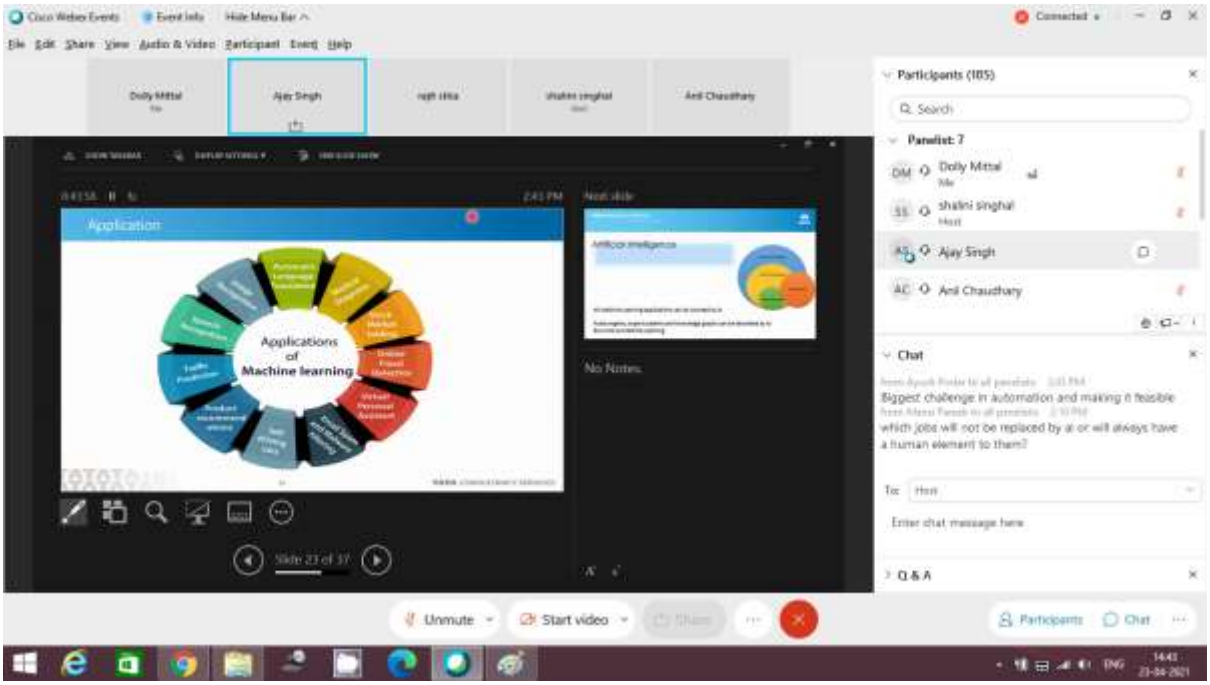
Time: 2:00-3:00 PM

- ✓ Day 5 was more of a question and answer session.
- ✓ Mr. Ajay discussed how AI, machine learning and deep learning are related.
- ✓ Then he discussed various applications of machine learning.




Participants (95)
Panelist: 7
Dolly Mittal
shalini singhal
Ajay Singh
Anil Chaudhary
Nidhi Srivastav
Pankaj Jadwal
rajit okka
Attendee: 88 (0 displayed)
Q & A
Artificial Intelligence vs Automation
Automation is basically making a hardware or software that is capable of doing things automatically — without human intervention.
Automated system are built to deliver specific task or process under human supervision. As and example the IVR system with bank can help caller to performed certain defines tasks. Two communication with defined question What if the IVR is built with AI and Machine Learning, it can interact with user like human and can deliver better experience to user with all his queries.
Slide 2 of 37
Unmute
Start video
Participants
Chat

✓


Participants (105)
Panelist: 7
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shalini singhal
Ajay Singh
Anil Chaudhary
Chat
Biggest challenge in automation and making it feasible
which jobs will not be replaced by ai or will always have a human element to them?
To: Host
Enter chat message here
Q & A
Application
Applications of Machine learning
No Notes
Slide 23 of 37
Unmute
Start video
Participants
Chat

12 Sample Copy of Participant's Certificate

Five Days Student Workshop
on
"Artificial Intelligence and Machine Learning"
Organized By
Swami Keshvanand Institute of Technology Management & Gramothan
Ramnagaria , Jagatpura , Jaipur 302017
Conducted By
TCS
DEPARTMENT OF COMPUTER SCIENCE & ENGG / INFORMATION TECHNOLOGY

CERTIFICATE OF COMPLETION

This is to certify that Mr./Ms.

DEVYANSHI KHANDELWAL

of

SKIT , Jaipur

has successfully completed the online student workshop on "Artificial Intelligence and Machine Learning" conducted between 19th April, 2021 - 23rd April, 2021.

Dr. Ramesh Kumar Pachar	Dr. Anil Chaudhary	Dr. Mukesh Kumar Gupta	Ms. Nidhi Srivastava (CSE)
PRINCIPAL, SKIT JAIPUR	HOD, IT	HOD, CS	COORDINATOR

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